NON-PRIVILEGED DOCUMENT

TO BE PHOTOCOPIED AND PRODUCED

DO NOT CODE

BATES NO. 0399

FFER
MANAGER

COPY

American Smelting and Refining Company
Northwestern Mining Department
Wallace, Idaho

July 17, 1961

EXTRA COPY
O. M. E.
RECEIVED AUG 4 1961

DATE	INITIALS	CODE
8-4	GM	100
8/4	[illegible]	110
		1V0
"	Received	V00
8/7	Murphy	V00

Mr. D. R. MacLaren
Acting Field Officer, OME
Region I
U. S. Department of the Interior
South 157 Howard Street
Spokane 4, Washington

Re: DMEA-4712 (Lead-Zinc)
East Page Mine
Shoshone County, Idaho
Contract Idm-E1134

Dear Mr. MacLaren:

Enclosed are the signed original and four signed copies of each of the following:

1. Operator's Unit Cost and Progress Report, Final Report.

2. Operator's Monthly Report and Voucher, Final Report.

Yours very truly,

ORIGINAL SIGNED
J. C. KIEFFER

JCK:GM
Encs. (5 sets)

cc: DJPope w/enc.
SNKesten - w/enc.
TMTower - w/enc.
WJMurphy - w/o enc.

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JUL 18 1961
U S G S
SPOKANE, WASH.

COPY

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Budget Bureau No. 42-R1151.2

RECEIVED JUL 18 1961 U. S. G. S. SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Final Report 195____ Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 140, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot			192,404.00	4810.1	40.00	12,485	40.00
~~Crosscutting~~ Timbering	"			41,475.00	3950	10.50	3,950	10.50
~~Raising~~ Rock Bolting	Each			4,053.00	1158	3.50	4,000	3.50
~~Shafts~~ Car Sidings	Foot			6,660.00	14,800	.45	14,800	.45
~~Winzes~~ D.D.Stations	"			7,000.00	200	35.00	300	35.00
Drilling: Core AX or lar.	"	262.65	-	51,041.10	7733.5	6.60)		6.60
~~Churn~~ EX	"					)	11,855	6.40
~~Auger~~ Incid.	"			3,093.40	7733.5	.40)		.40
~~Stripping~~ Core Boxes	Each			986.00	290	3.40		3.40
~~Trenching~~ Assaying	Det.			1,400.00	1400	1.00		1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		262.65		308,112.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		262.65		308,112.50				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date July 14, 1961 Operator American Smelting and Refining Company

Per J. C. Kiesser Title Manager

REMARKS: Claims costs allowable by Report of Review dated June 19, 1961

EXTRA COPY
O. M. E
RECEIVED AUG 4 1961

DATE	INITIALS	CODE

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

D R Macbeth
Acting Field Officer Reg. I
JUL 31 1961

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

04 (Rev. 1952)

RECEIVED JUL 18 1961 U.S.G.S. SPOKANE, WASH.

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Final Report, 195 Docket No. DMEA 4712 Contract No. ~~DM-E~~ 1134

Operator's Name American Smelting and Refining Company Minerals Lead and Zinc

Address 140, Wallace, Idaho

Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	262.65	50,778.45	51,041.10			
~~Bulldozing~~ D.D.Stations		7,000.00	7,000.00			
Crosscutting }		192,404.00	192,404.00			
Drifting }						
D.D. Incidentals		3,093.40	3,093.40			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber ing		41,475.00	41,475.00			
Explosives						
Pipe						
~~Track~~ Car Sidings		6,660.00	6,660.00			
Rock Bolting		4,053.00	4,053.00			
Core Boxes		986.00	986.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		1,400.00	1,400.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	262.65	307,849.85	308,112.50			

EXTRA COPY O. M. E. RECEIVED AUG 4 1961 DATE INITIALS GCCE

I certify that the above bill is correct and just and that payment therefor has not been received.

Date July 14, 1961 Payee American Smelting and Refining Co.

Per J. L. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 131.33

Signature See report of Review dated 4/19/61 OAS (Authorized Certifying Officer)

Date 8/3/61 Vou. No. (See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Ta-E 1134 in accordance with the terms of the contract.

Signature D.H. MacDaren Title Acting Field Officer, Reg. I Date JUL 31 1961

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature D.H. MacDaren Title Acting Field Officer, Reg. I Date JUL 31 1961

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
April 14, 1961

OFFICIAL FILE COPY
O. M. E
RECEIVED APR 17 1961

DATE	INITIALS	CODE
4-17	gad	220
"	759	110
4/17	[illegible]	800
~~4-18~~	~~Murphy~~	~~500~~

Memorandum

To: Chief, Division of Field Operations

From: Acting Field Officer, Region I

Subject: Interim inspection report, DMEA-4712 (Lead-Zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract Idm-E1134

The East Page mine was visited April 10, 1961, and the project was inspected in the company of Stanley H. Huff, Assistant Geologist. Troy Tower, Superintendent, was interviewed in the office. The last inspection was made by S. W. Zoldok, Mining Engineer, Bureau of Mines, on April 27, 1960. All work at the mine was reportedly stopped by a strike on April 20, 1960, but after this announcement the union agreed to continue working on a day-to-day basis. Work was finally halted early in June and was not resumed until late in December 1960.

Since Mr. Zoldok's inspection the 3070 level east drift has been advanced 381.58 feet for a total drive of 4,543.9 feet. The rock is purple to green-grey argillite with some quartzite. The beds strike S. 80°-85° E. and dip steeply north to steeply south. The ground is very heavy, probably because of a strong fault exposed by caving of the south wall of the drift. In order to get away from the heavy ground the Operator requested permission to turn the drift about 13° northerly from the present bearing. This change was authorized February 17, 1961.

Diamond drill hole H30-662N was completed at 1,057 feet; H30-607N was completed at 1,010 feet, and H30-600S was completed at 753.5 feet. No significant mineralization was found in any of these holes.

No DMEA work was in progress and the last 320 feet of timbering had been sprag-braced. Mr. Tower said that work had been discontinued about the 25th of February but would be resumed although he did not know when. I have written to S. Norman Keston advising him that the company should request a recess.

Contract Measurements (3070 DE)

Drifting:

Previously reported to T.S. 1-9	3,966.32 ft
T.S. 1-9 to T.S. 1-10	223.00 "
Total to T.S. 1-10	4,189.32 "
T.S. 1-10 to face	354.58 "
Total drifting to April 10, 1961	4,543.90 ft

Cont Tot 12485' Drifts & xcuts

Timbering:

Previously reported to T.S. 1-9	3,441.26 ft
T.S. 1-9 to T.S. 1-10	354.58 "
Total to T.S. 1-10	3,795.84 "
T.S. 1-10 to face	349.00 "
Total timbering to April 10, 1961	1/ 4,144.84 ft

1/ Maximum authorized under contract: 3,950 feet

706 XCS (No. 1 XCS) and 714 XCN (No. 1 XCN)

No advance since January 12, 1960 266.2'

Car siding excavations:

None since April 27, 1960. Total to date: 15,412 cu ft (14,800 cu ft authorized)

Diamond drill stations:

None since April 27, 1960. Total to date: 200 ft

Diamond drilling:

Hole H30 - 800S ✓	927.0 ft
" H30 - 823N ✓	755.0 "
" H30 - 751S ✓	1,086.0 "
" H30 - 767N ✓	1,145.0 "
" H30 - 650S ✓	2/ 1,200.0 "
" H30 - 662N ✓	1,057.0 "
" H30 - 607N ✓	1,010.0 "
" H30 - 600S ✓	753.5 "
Total to 4/10/61	7,733.5 "

Tot 11,185' feet

2/ Only 1,000 ft reimbursable

D. R. MacLaren

Distribution: OME(Orig.&2)
Docket
MacLaren

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

Doh 1326

Murphy
3/30/61

MAR 20 1961

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1961 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	4,973.10	45,805.35	50,778.45			
~~Bulldozing~~ D.D. Stations		7,000.00	7,000.00			
Crosscutting }	4,560.00	187,844.00	192,404.00			
Drifting }						
D.D. Incidentals	301.40	2,792.00	3,093.40			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering		41,475.00	41,475.00			
Explosives						
Pipe						
~~Track~~ Car Sidings		6,660.00	6,660.00			
Rock Bolting		4,053.00	4,053.00			
Core Boxes		986.00	986.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	6.00	1,394.00	1,400.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	9,840.50	298,009.35	307,849.85	9840.50	298,009.35	307,849.85

I certify that the above bill is correct and just and that payment therefor has not been received.

Date March 17, 1961 *Payee American Smelting and Refining Co.

By J. L. Kinsser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4920.25

Signature GN
(Authorized Certifying Officer)

Date 3/27/61 Vou. No. 3818

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature Donald K. Macharen Title Acting Field Officer, Region I Date 3/22/61

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Donald K. Macharen Title Acting Field Officer, Region I Date 3/22/61

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A (Rev. 1-20-1952)

RECEIVED
MAR 20 1961
U. S. G. S.
SPOKANE, WASH.

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

February 1961 Docket No. DMEA 4712 Contract No. IDM-E 1134

Name American Smelting and Refining Company Minerals Lead and Zinc

Address Box 440, Wallace, Idaho

Operation	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Prospecting	Foot	45600	114.0	192404.00	4810.1	40.00	12,485	40.00
Timbering	"			41475.00	3950	10.50	3,950	10.50
Rock Bolting	Each			4053.00	1158	3.50	4,000	3.50
Car Sidings	Foot			6660.00	14,800	.45	14,800	.45
D.D. Stations	"			7000.00	200	35.00	300	35.00
Drilling. Core AX or larger	"	49773.10	753.5	50778.45	7733.5			6.60
EX	"						11,855	6.40
Incid.	"	301.40	753.5	3093.40	7733.5	.40		.40
Core Boxes	Each			986.00	290	3.40	290	3.40
Assaying	Det.	600	6	1400.00	1400	1.00	4,200	1.00
Test Pits								
Roads and Trails								
Total Distributed Costs		98406.50		307849.85				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		98406.50		307849.85				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date March 16, 1961 Operator American Smelting and Refining Company

Per J. B. Kinsor Title Manager

Remarks:

NOTE—The United States Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

Donald R. Mackenzie
Acting Field Officer, Region I
3/22/61

Diamond Drilling Contractors

NICHOLS & THOMPSON CORE DRILLING CO., Inc.

PHONE 4-2575

111 E. 39TH ST. BOISE, IDAHO P. O. BOX 2057

FOR CUSTOMER'S USE ONLY	
REGISTER NO	VOUCHER NO
TERMS APPROVED	RATE APPROVED
CALCULATIONS CHECKED	
FOOTAGE CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTIONS	
AUDITED	FINAL APPROVAL

INVOICE DATE: MARCH 1, 1961

INVOICE NUMBER: PAGE 61 - 2

CONTRACT: AMERICAN SMELTING & REFINING CO.

TERMS: NET

LOCATION:

HOLE NO	FROM	TO	FOOTAGE	RATE	TOTAL
HOLE # 600	NX 372 TO 500		128'	5.74	$ 734.72
	NX 500 TO 739		239'	7.25	1,732.75
	BX 739 TO 753½	14.5	15'	6.50	97.50
	SURVEYS		6 HR.	8.00	48.00
					$ 2,612.97

APPROVED BY

AMERICAN SMELTING & REFINING CO.

BY: _____

APPROVED BY

NICHOLS & THOMPSON CORE DRILLING CO., INC.

BY: _____

FRANK P. FUSS, OFFICE MANAGER

Diamond Drilling Contractors

NICHOLS & THOMPSON CORE DRILLING CO., Inc.

PHONE 4-2878

111 E. 20TH ST. BOISE, IDAHO P. O. BOX 2057

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	RATE APPROVED
CALCULATIONS CHECKED	
FOOTAGE CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTIONS	
AUDITED	FINAL APPROVAL

INVOICE DATE: FEBRUARY 2, 1961

INVOICE NUMBER: PAGE 61-1

CONTRACT: AMERICAN SMELTING & REFINING Co.

TERMS: NET

LOCATION: PAGE MINE

HOLE NO.	FROM	TO			FOOTAGE		RATE	TOTAL
HOLE # 600 (FORMERLY No. 8)								$ 300.00
	MOVE IN				8'	@	2.65	21.20
	REAM	106	TO	164	45'	@	5.74	258.30
	NX	164	TO	209	163'	@	5.74	935.62
	NX	209	TO	372	56'	@	2.65	148.40
	REAM	209	TO	265	109'	@	.96	104.50
	CASED	0	TO	109				$ 1,768.02

APPROVED BY
AMERICAN SMELTING & REFINING CO.

BY: _____

APPROVED BY
NICHOLS & THOMPSON CORE DRILLING CO., INC.

BY: _____
FRANK P. FUSS, OFFICE MANAGER

Diamond Drilling Contractors

NICHOLS & THOMPSON
CORE DRILLING CO., Inc.

PHONE 4 1464
505 SO AMERICANA BOISE, IDAHO P. O BOX 2057

FOR CUSTOMER USE ONLY	
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	
FOOTAGE CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTIONS	
AUDITED	FINAL APPROVAL

INVOICE DATE: JUNE 3, 1960
INVOICE NUMBER: A.S. & R. -P-20
CONTRACT: AMERICAN SMELTING & REFINING Co.
TERMS: NET
LOCATION: PAGE MINE

HOLE NO	FROM	TO	FOOTAGE	RATE	TOTAL
HOLE # 8	NC 0	97	97	5.74	556.78
	NX 97	164	67	5.74	384.58
	REAMING 97'	156	59	2.65	156.35
					$ 1,097.71

APPROVED BY

AMERICAN SMELTING & REFINING CO.

BY: _____

APPROVED BY

NICHOLS & THOMPSON CORE DRILLING CO., INC.

BY: _____
FRANK P. FUSS, OFFICE MANAGER

J. C. KIEFFER
MANAGER

COPY

American Smelting and Refining Company
Northwestern Mining Department
Wallace, Idaho

March 15, 1961

Office of Minerals Exploration
c/o United States Geological Survey
South 157 Howard Street
Spokane, Washington

Dear Sirs:

Concerning Docket No. DMEA-4712, Contract No. Idm-E 1134, please find attached the geologists' report on advance in February 1961 and the accountants' report on the month's costs.

Yours very truly,

ORIGINAL SIGNED
J. C. KIEFFER

Enclosures
cc: OME (4) - with enclosures.
DJPope - with enclosures.
SWKesten - with enclosures.
TMTower - with enclosures.
WJMurphy - with geologists' report only.

RECEIVED
MAR 20 1961
U. S. G. S.
SPOKANE, WASH.

Wallace, Idaho
March 15, 1961

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT -- FEBRUARY 1961

Advance for February in the 3070 - East Page Drive was 114.0 feet for a total under the OME contract of 4,543.9 feet. In this advance, the rock is predominantly purple to green-grey argillite with some quartzite, and strikes S. 80° to 85° E. and dips steeply north or south. The rock continues to be extremely heavy throughout the advance. Caving ground on the south side of the drive has partly exposed a strong fault which dips moderately to the south and appears to parallel the heading. This fault is probably the cause of the present heavy ground and may be a footwall branch of the Dodo fault.

In DDH 30-600S advance was 371.5 feet to a completed depth of 753.5 feet. The total drilling in the project is now 7,933.5 feet. The rocks cut in this advance are dark-grey to purple argillites and argillaceous quartzites to 680.0 feet and light greenish-grey quartzite from this point to the end of the hole. Significant faulting and brecciation occurs between footages 645.0 and 651.5.

The geology of the advance in the 3070 - East Page Drive and in DDH 30-600S is shown on Plate 1. Core logs for the footage drilled are attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, geology of advance - - - 1" = 50'

Core logs -- DDH 30-600S, 400' to 753.5'

RECEIVED
MAR 20 1961
U. S. G. S.
SPOKANE, WASH.

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						403.0 - 412.0 qtzite				400			401.0 & 402.0 wk						
						ppl. to pplish grey	402.0						random qge.						
						mq to c.g. slight							403.0 wk qge bdg?						
						calc local		4.8/5.0	96										
						fg & cubic 1/8" diss	407.0					90	408.0 bdg 90						
						pyrite		2.6/3.0											
							410.0		87	410									
												90	412.0 wk bdg shear						
						412.0 - 470.0 arg qtzite		4.2/6.0	70										
						ppl. w/ numerous	416.0					80	415.0 bdg 80-85						
						beds, ribbons &						85							
						lens arg. grn, gry & ppl		2.5/4.0	63			50	418.0 - 419.0 wk shear						
						ex. ton calc streak or blotch	420.0			420			@ 50°						
						loc diss py part		2.2/4.0	55										
						ox. some	424.0												
						x bdg locally		6.2/7.0	89										
							431.0			430									
								4.8/5.0	96				437.0 bdg 78						
							436.0					78							
								4.5/5.5	82	440									
							441.5												
								8.4/8.5	99										
							450.0			450		85	450.0 bdg 85						
								5.9/6.0	98										
							456.0												
								8.4/9.0	93	460									
							463.0												
								3.6/5.0	72										
							470.0			470									

TO ACCOMPANY MINING
MAR 15 1961
BY
FILE

ASSAY - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						470.0 - 475.0 arg	470.0			470									
						apple green not							NOTE:						
						calc.		2.7/5.0	54				occ wk blg fault						
							475.0						throughout core						
						475.0 - 598.0 qtzite 50%		4.0/6.0	67										
						arg & arg phyl. 50%				480		80	ABL: bdg 80						
						ppl. mum beds &	481.0												
						ribbons arg it gray		3.4/5.0	68										
						to ppl. loc.	486.0												
						Cq, calc and		3.5/5.0	70										
						w/ diss xlln py.				490		85	490.0 bdg 85						
						calc	491.0												
						lons streaks &													
						zones on bdg?		4.1/5.0	82										
							496.0												
						SURVEY 500' S 3°E													
						+10°		3.6/6.0	60	500									
							502.0												
								3.8/5.0	76										
							507.0												
								3.5/5.0	70	510									
							512.0												
													515.0 bdg 85						
								3.8/5.0	76			85							
							517.0												
								3.7/5.0	74	520									
							522.0												
								3.8/5.0	76										
							527.0												
								3.7/5.0	74	530									
							532.0												
								3.4/6.0	57			85	535.0 bdg 85						
							538.0												
										540									

ASSAY - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag.	% Pb.	% Zn.	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
							538.0												
								4.1/5.0	82	540									
						rock becomes more													
						quartzose & at	543.0												
						530.0 beyond		3.8/5.0	76										
						pred qtzite becoming	548.0												
						lighter & grey-ppl		3.1/4.0	78	550									
						at 560.0	552.0												
								2.6/4.0	65				558.0 bdg 85°						
							554.0												
								4.4/5.0	88			85							
										560			560.0 2" well cemented						
							561.0						& silfd bx.						
								3.8/4.5	84										
							565.5												
								4.1/4.5	91										
							570.0			570		85	570.0 bdg 85°						
								4.1/4.5	91										
							574.5												
								3.9/4.5	87										
							579.0												
										580		80	580.0 bdg 80°						
								3.4/3.5	97										
							582.5												
								2.6/3.0	87				586.0 = 8" broken						
585							585.5						zone few slicks						
		0.1	NT	NT	453 86														
								3.7/5.0	46										
590										590									
		0.1	NT	NT	453 87	598.0 - qtzite	593.5												
595						H-med grey w/		3.6/5.0	72										
						occ streaks & patches	598.5												
						of ppl. m.g. loc				600									
						hairlike delicate		4.0/4.6	87			80	602.0 bdg 80°						
						banding on bedg.	603.1						604.0 1" well cemented						
						Sparse xtls pyrite.		3.0/5.0	60				bx						
						local x bdg.							608.0 bdg 78						
							608.1					78							
								3.0/4.4	68	610									

ASSAY - SLUDGE		DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
						610					
			612.5								
				2.2/2.5	88						
			615.0								
				3.6/5.0	72						
			620.0			620					
				3.5/5.0	70						
			625.0						630.0 wk bxn & qge bdg?		
				3.5/5.0	70						
			630.0			630			635.0 bdg 80		
				3.9/5.5	68				634.0 wk qge several slicks on bdg		
			635.5								
		635.5 - 646.0 DRILL RUNS NOT MARKED CORRECTLY NO SLUDGES REC'D BEYOND ABOUT 640'									
			640.0	6.5/10.5		640			645.0 - 647.0 stng random white gritty qge		
			646.0						647.0 - 651.5 occ qge numerous chl & sericite slicks on bdg; occ poorly cmtd bx & occ sparse qtz.		
				2.0/3.5							
			649.5			650					
			651.5	1.7/2.0	60						
			653.6	0.8/1.1					651.5 - 655.0 occ chl & seric. slicks on bdg		
				3.3/4.4	75			85			
			657.0						655.0 bdg 85		
				2.4/4.0	60	660					
			661.0								
				3.4/5.0	68						
			666.0								
				3.0/5.0	60	670			670.0 wk random qge		
			671.0					80			
				3.4/5.5	62				671.0 bdg 80		
			676.5						675.0 ≈12" wk bx		
				1.0/4.5	22	680					
			681.0								

ASSAY - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	WL					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
							681.0			680									
						6800 pred gtzite		2.8/3.0	93										
						beyond this point	684.0												
						It grey to greenish		2.4/5.0	48				689.0 - 692.0 broken few						
						little or no ppl							sticks on bdg						
							689.0												
								1.8/3.0	60	690			692.0 bdg 78						
							692.0					78	695.0 - 696.0 bkn. few						
								3.0/4.0	75				sticks on bdg						
							696.0												
								2.3/4.0	58				699.0 - 700.5 bkn. few						
							700.0			700			sticks on bdg						
								2.7/5.0	54										
							705.0												
								2.7/5.0	54										
							710.0			710									
								1.9/3.0	63										
							713.0						713.0 - 715.0 bkn wk qge						
								0.5/3.0					little core						
							715.0		25										
								3.7/5.0	74										
							720.0			720		77	720.0 bdg 77						
								3.0											
							725.0												
								3.1											
						Bx core ± 739													
							730.0			730			730.0 bdg 85						
								3.6											
													735.0 - 752.0 rock						
							735.0						broken but no evidence						
								3.0					of faulting						
							739.0												
								2.0		740									
							745.0												
								3.9											
										750									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
								3.9											
										750									
								752.5											
							753.5	7					END OF HOLE.						

DDH-30-6003

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MAR 24 1961
OFFICE OF THE SECRETARY
FISCAL SECTION

J. C. KIEFFER
MANAGER

COPY

American Smelting and Refining Company
Northwestern Mining Department
Wallace, Idaho

February 15, 1961

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DATE | CODE
2/23 | 110
120
2/24 Murphy | 520

Office of Minerals Exploration
c/o United States Geological Survey
South 157 Howard Street
Spokane, Washington

Dear Sirs:

Concerning Docket No. DMEA-4712, Contract No. Idm-E 1134, please find attached the geologists' report on advance in January 1961 and the accountants' report on the month's costs.

Yours very truly,

ORIGINAL SIGNED
J. C. KIEFFER

Enclosures
cc: OME (4) - with enclosures.
DJPope - with enclosures.
SNKesten - with enclosures.
TMTower - with enclosures.
WJMurphy - with geologists' report only.

RECEIVED
FEB 16 1961
U. S. G. S.
SPOKANE, WASH.

Wallace, Idaho
February 15, 1961

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT -- JANUARY 1961

Advance for January in the 3070 - East Page Drive was 73.0 feet for a total under the OME contract of 4,429.3 feet. In this advance, the rock is predominantly purple to green-grey argillite with some interbedded quartzite, and continues to strike S. 80° to 85° E. and dip steeply north or south. Numerous faults, chloritic bedding plane partings and closely spaced fracturing make heavy ground throughout the advance. A small amount of crystal-like pyrite occurs within particular beds, however no significant sulphide mineralization is exposed. The advance was in heavy ground caused by the proximity of the fault mentioned in the report for May 1960, which has been named the Dodo fault.

In DDH 30-600S, advance was 218.0 feet to a depth of 382.0 feet. The total drilling in the project is now 7,562.0 feet, of which 7,362.0 feet were drilled under the OME contract. The rocks in the hole are purple to grey-green quartzite and argillaceous quartzite, with local sections of purple to green argillite. The Exile fault zone was cut from footage 229.0 to 242.0 and consists of about 9 feet of moderate faulting and brecciation and a 4-foot gouge and shear zone.

The geology of the advance in both the 3070 - East Page Drive and the drill hole is shown on Plate 1. Core logs for the footage drilled are attached.

Respectfully submitted,

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, geology of advance - - - 1" = 50'

Core Logs -- DDH 30-600S - - - 120' to 400'

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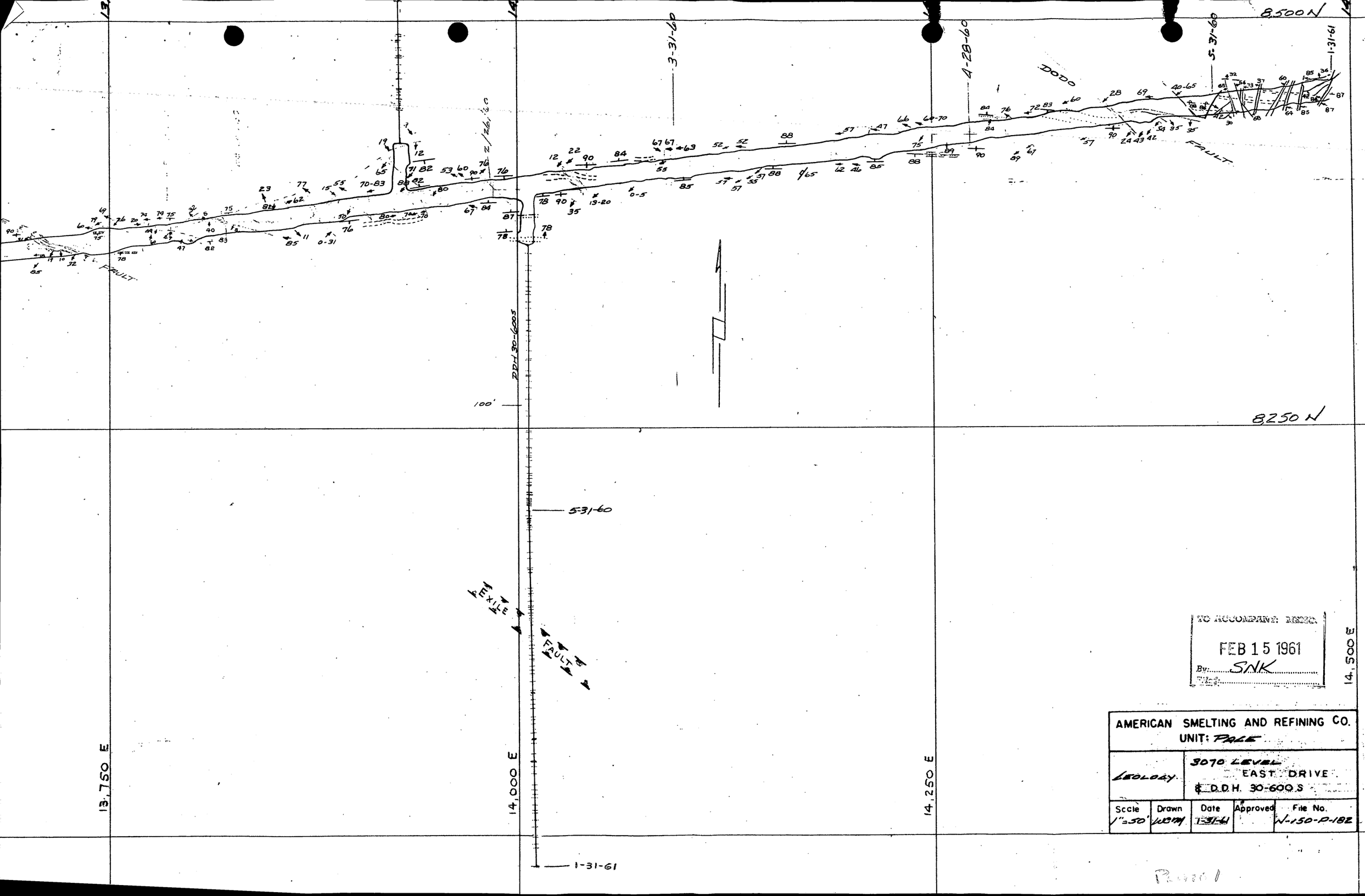
U S G. S.
SPOKANE, WASH.



TO ACCOMPANY MEMO.
FEB 15 1961
By: SNK
Title:

AMERICAN SMELTING AND REFINING CO. UNIT: PALE				
GEOLOGY	3070 LEVEL EAST DRIVE ℄ D.D.H. 30-600 S			
Scale 1"=50'	Drawn WDM	Date 1-31-61	Approved	File No. W-150-P-182

Page 1

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SPOKANE, WASH.

ASSA. - SLUDGE Intercept	Wt.	oz Ag	% Pb	% Zn		DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
										120		85	120.0 bdg 85° irr.		
							122.0								
								3.7/5.0	74				123.0 sev wk bdg faults faint rec ox smears		
							127.0 127.9	0.9/0.9	100						
						133.0-145.0 arg & arg qtzite dk ppl. occ disc ribs lt grey arg. loc blchd & calc. more quartzose beyond 145.0'		3.3/5.6	59	130			129.0 sev wk bdg faults faint rec ox smears		
							133.5						134.0 sev wk bdg faults faint ox smears		
								3.2/5.6	57						
							139.1			140		80	140.0 bdg 80		
								3.7/5.0	74						
							144.1								
								3.7/7.2	51						
										150			152.0 wk-mod bdg shear		
							151.3						154.0 wk bdg shear		
								4.0/5.2	77				155.0 wk bdg faults		
							156.5					80 85	157 bdg 80-85		
								2.0/3.5	57						
160							160.0			160					
						145.0-198.0 qtzite gradational dk to lt gplish grey. lt grey @ 185'		1.6/4.3	37				167.0-169.0 mod random qqc on bdg 168' @ 50°		
		0.4	NT	NT			169.3								
165								7.0/4.7	91			50	171.0 1.0' broken random slicks		
										170					
							172.0								
								4.2/5.0	82						
							177.0								
								4.0/5.0	80	180		75	180.0 bdg 75°		
							182.0								
													181.0 ≈1.0' bdg flts @ 75°		
								4.3/5.0	86						
							187.0								
								3.1/5.0	62	190					
							192.0								

FEB 15 1961 SMR

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FEB 16 1961
U S G S
SPOKANE, WASH.

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						198.0 - 208.0 qtzite w/ interbd arg & arg qtzite dk ppl.				190									
							192.0												
								3.3/5.0	66				197.0 - 229.0 occ bdg slip w/ occ wk bxn						
							197.0												
							199.0	1.6/2.0	80										
										200									
								3.3/5.0	66										
							204.0												
								4.1/5.0	82				210.0 bdg 80°						
						208.0 - 229.0 qtzite & arg qtzite lt grey green occ pplish occ calc on fract.	209.0												
										210		80							
							212.0	2.0/3.0	67										
								2.7/5.0	54				216.0 chl slick @ 20°						
							217.0					20							
						229.0 - 240.0 arg & arg qtzite alt lt grey pplish to dk grey pplish.		1.6/3.0	53				222.0 bdg 73°						
							220.0			220			229.0 - 242.0 (EXILE FAULT)						
								2.9/5.0	58			73	229.0 - 234.0 occ stng qge & num slicks						
							225.0						231.0 @ 35° stng qge						
							227.0	1.7/2.0	85				234.0 ±75°						
							228.0	1.0/1.0	100										
							230.0	2.0/2.0	100	230		35							
								4.3/5.0	86			68	232.0 bdg 68						
						240.0 - 262.0 arg qtzite ppl to dk grey w/ occ ribbons lt grey arg.						75	234.0 bdg 68						
							235.0					64	236.0 - 237.0 broken wk qge						
								3.8/5.0	76										
							240.0			240		70	238.0 - 240.0 mod stng qge. 240.0 @ 70°?						
								3.3/5.0	66			45							
												75	242.0 bdg 75						
							245.0						240.0 - 242.0 stng gritty qge. slicks about 45°						
								3.3/5.0	66										
							250.0			250		67							
								3.0/5.0	66				245.0 - 249.0 wk qge & bdg slicks						
												67							
							255.0						253.0 bdg 67						
								2.6/3.0	87										
							258.0						254.0 wk random qge						
										260									

RECEIVED
FEB 16 1961
U S G.S.
SPOKANE, WASH.

ASSAYS - SLUDGE		DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	LITHOLOGY, ALTERATION, MISC.	Drill Run.	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
			258.0								
		262.0 - 317.0 qtzite		2.9/5.0	58	260					
		lt grey occ ribbon	263.0								
		of lt to dk grey arg.		3.5/4.5	78						
		also irr patches dk	267.5								
		ppl bdg obscure									
	SURVEY:	275' S1°E +6°		4.1/5.0	82	270					
			272.5					45	273.0 & 274.0 bdg? slicks		
									@ 45° x bdg		
				3.7/5.0	74			65	274.0		
			277.5					65	276.0 several inches		
									shear @ 65		
				4.3/4.5	96	280					
			282.0								
				2.9/5.0	58				285.0 bdg @ 35° ?		
								35	prob x bdg		
			287.0								
				4.1/5.0	82	290			291.0 1½" stng qge		
			292.0					71	@ 71°		
				4.0/5.0	80						
									296.5 6" stng		
			297.0						random qge		
		317.0 - 394.0 qtzite		3.7/5.0	74	300					
		sparse arg. ppl	302.0								
		occ sulfn along									
		fract. bdg obscure		3.8/5.0	76			70	303.0 wk qge		
		(lineations @ 85 & less							slick @ 70°		
		than 65°)	307.0								
		loc stng mica		3.9/5.0	78	310					
		loc slight calc.	312.0								
		loc x bdg									
				4.0/5.0	80				317.0 2" stng qge		
			317.0								
				3.1/5.0	62	320					
			322.0								
				2.8/5.0	56						
			327.0								
				1.2/2.0	60						
			329.0								
						330					

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ASSAY - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						rock becomes				330		75	330.0 bdg 75°						
						more arg beyond		2.7/5.0	54										
						330.0. sect	334.0												
						arg becomes													
						thicker between		3.6/5.0	72										
						330-347.	339.0												
										340		80	340.0 bdg 80°						
							342.0	1.7/3.0	59			70							
						346.0 1' green fg.		3.9/5.0	78				342.0 bdg 70°						
						qtzite	347.0												
								1.8/3.0	60										
							350.0			350			352.0 bdg 55°						
								4.2/5.0	84			65							
						385.0 Locally	355.0												
						rocks contain													
						red-ppl blotches		4.7/5.0	94										
						w/ part ox. py	360.0			360									
						in center also		4.5/5.0	90										
						local diss. py.	365.0												
						Rock becomes							368.0 bdg 60						
						slightly arg. Cg. &		3.4/5.0	68										
						lighter color at	370.0			370		60							
						end of int. 394.'						80	371.0 bdg 80						
								3.6/5.0	72										
							375.0												
							376.0	1.0/1.0	100										
						394.0-403.0 qtzite													
						med gray-ppl.		3.4/6.0	57	380			381.0 wk bdg flts						
						stray sericite	382.0					76	382.0 bdg 76						
							384.0	1.7/2.0	85			76							
													389.0 ≈ 1" wk py, sid						
								8.7/10.0	87				& shear on bdg. 80°						
												80							
										390		85							
													390.0 bdg 85						
							394.0												
								2.6/3.0	87										
							397.0												
								4.7/5.0	94	400									
							402.0												

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Form MF-104 (Rev.)
(April 1952)

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Sch. 1167

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1961 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $660,206 Government Participation: 50 % Amount, $330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		45,805.35	45,805.35			
~~[illegible]~~ D.D.Stations		7,000.00	7,000.00			
Crosscutting }	2,920.00	184,924.00	187,844.00			
Drifting }						
D.D. Incidentals		2,792.00	2,792.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber ing	201.60	41,273.40	41,475.00			
Explosives						
Pipe						
~~Truck~~ Car Sidings		6,660.00	6,660.00			
Rock Bolting		4,053.00	4,053.00			
Core Boxes		986.00	986.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		1,394.00	1,394.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3,121.60	294,887.75	298,009.35	3121.60	294,887.75	298,009.35

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Feb. 8, 1961 *Payee American Smelting and Refining Co.

Per J. L. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1560 80

Signature _____ (Authorized Certifying Officer)

Date 2/23/61 Vou. No. 3411

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. ..... in accordance with the terms of the contract.

Signature ..... Title ..... Date .....

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title ..... Date .....

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1961 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Lab, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	2,920.00	73.0	187,844.00	4696.1	40.00	12,485	40.00
~~Crosscutting~~ Timbering	"	201.60	19.2	41,475.00	3950.0	10.50	3,950	10.50
~~Raising~~ Rock Bolting	Each			4,053.00	1158	3.50	4,000	3.50
~~Shafts~~ Car Sidings	Foot			6,660.00	14,800	.45	14,800	.45
~~Winzes~~ D.D.Stations	"			7,000.00	200	35.00	300	35.00
Drilling: Core AX or lar.	"			45,805.35	6980	)		6.60
~~Churn~~ EX	"					)	11,855	6.40
~~Auger~~ Incid.	"			2,792.00	6980	.40)		.40
~~Stripping~~ Core Boxes	Each			986.00	290	3.40	290	3.40
~~Trenching~~ Assaying	Det.			1,394.00	1394	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		3,121.60		298,009.35				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		3,121.60		298,009.35				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Feb. 8, 1961 Operator American Smelting and Refining Company

Per J. C. Kieser Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

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GPO 872894

J. C. KIEFFER
MANAGER

COPY

American Smelting and Refining Company
Northwestern Mining Department
Wallace, Idaho

June 10, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED JUN 27 1960

DATE	INITIALS	CODE
6/27	CAC	210
	y Houlesliy	110
~~6/28~~	~~Murphy~~	~~500~~

Office of Minerals Exploration
c/o United States Geological Survey
South 157 Howard Street
Spokane, Washington

Attention: Mr. A. E. Weissenborn

Dear Sirs:

Concerning Docket No. DMEA-4712, Contract No. Idm-E 1134, please find the geologists' report on advance in May 1960 and the accountants' report on the month's costs.

Yours very truly,

ORIGINAL SIGNED
J. C. KIEFFER

Enclosures
cc: OME (4) - w/enclosures.
DJPope - "
SNKesten - "
TMTower - "
WJMurphy - w/reports only.

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Wallace, Idaho
June 6, 1960

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT - - MAY 1960

Advance for May in the East Page Drive was 127.0 feet for a total under the OME contract of 4,356.9 feet. In this advance, the rock is interbedded light-grey to purplish quartzite and dark-purple argillite and argillaceous quartzite which strike S. 80° E. and dip steeply north or south. A strong undulating fault zone is exposed near the present face. The footwall branch of this zone strikes about N. 80° W. and dips 27° to 35° south. The stronger hanging wall branch strikes N. 45° W., dips 24° to 28° SW. and correlates with the faulting and brecciation encountered in DDH 30-607N from footage 326.0 to 353.0. The bedding attitudes are relatively undisturbed through the faulted area. No mineralization is exposed.

In DDH 30-607N, advance was 263.0 feet to completion at 1,010.0 feet. The rock is predominantly purple to grey-green argillite and argillaceous quartzite which is bleached and calcareous. A dark-green to black basic dike occurs from footage 855.0 to 863.8. Significant faulting and brecciation was penetrated from 942.0 feet to the end of the hole. This is probably the hanging wall part of the Osburn fault zone.

DDH 30-600S was collared and drilled at approximate coordinate 14,000 E to a depth of 164.0 feet. The rock is interbedded light-grey quartzite and purple argillite and argillaceous quartzite which locally are bleached and calcareous. Relatively weak faulting occurring from footage 123.0 to 164.3 is probably related to the Exile fault which lies a short distance south of the face of the hole.

Total diamond drilling under the OME contract is 7,344.0 feet.

Plate 1 is a plan showing the geology of the advance in DDH 30-607N and Plate 2 is a plan showing geology of the advance in DDH 30-600S and in the East Page Drive. Core logs for the footages drilled are also attached.

Respectfully submitted,
Original Signed by
S. N. KESTEN
S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, geology of advance - DDH 30-607N - - - 1" = 50'

Plate 2 - Plan, geology of advance
East Page Drive and DDH 30-600S - - - 1" = 50'

Core logs: DDH 30-607N - 750' to 1,010'
DDH 30-600S - 0' to 164'

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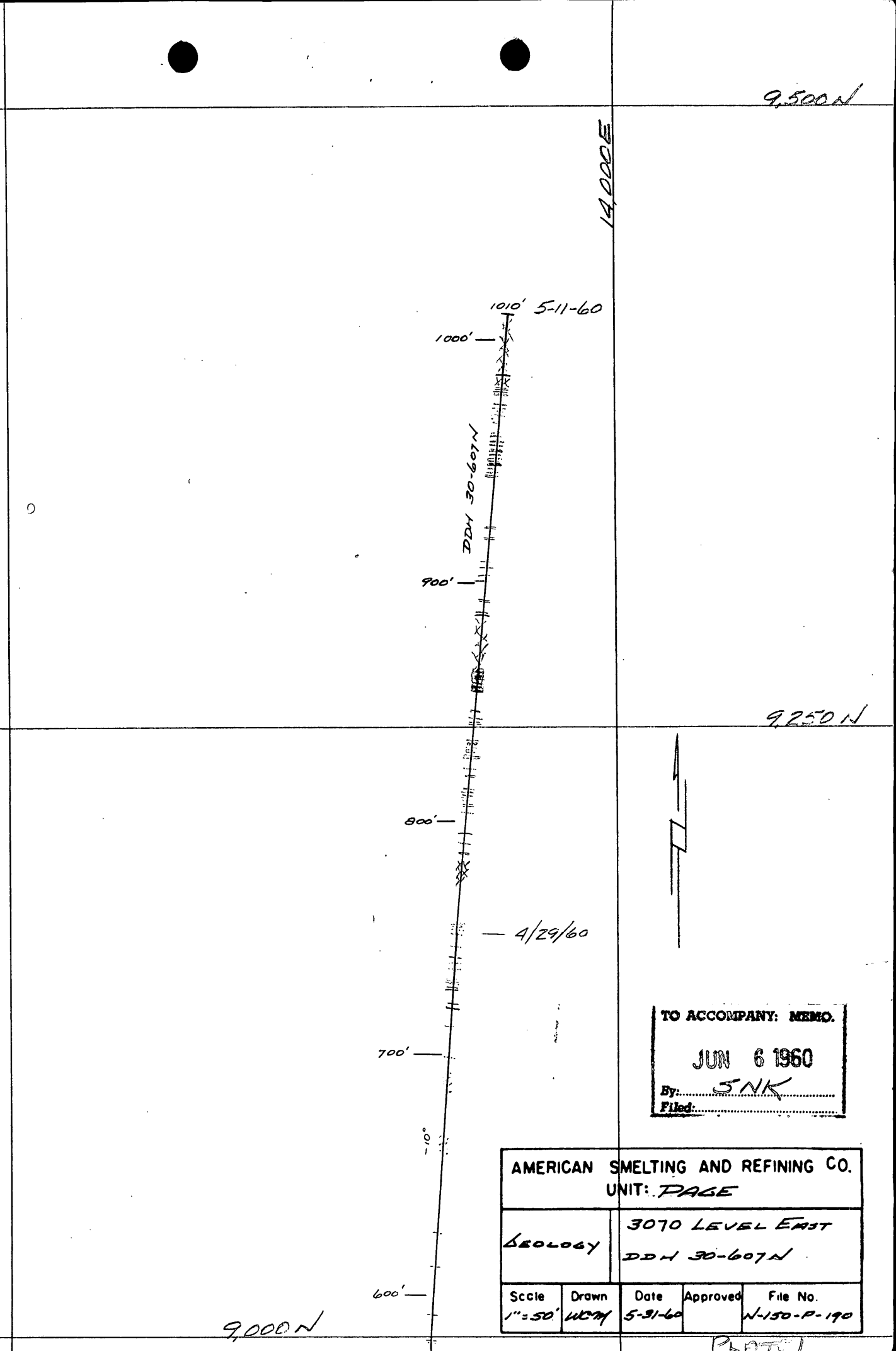
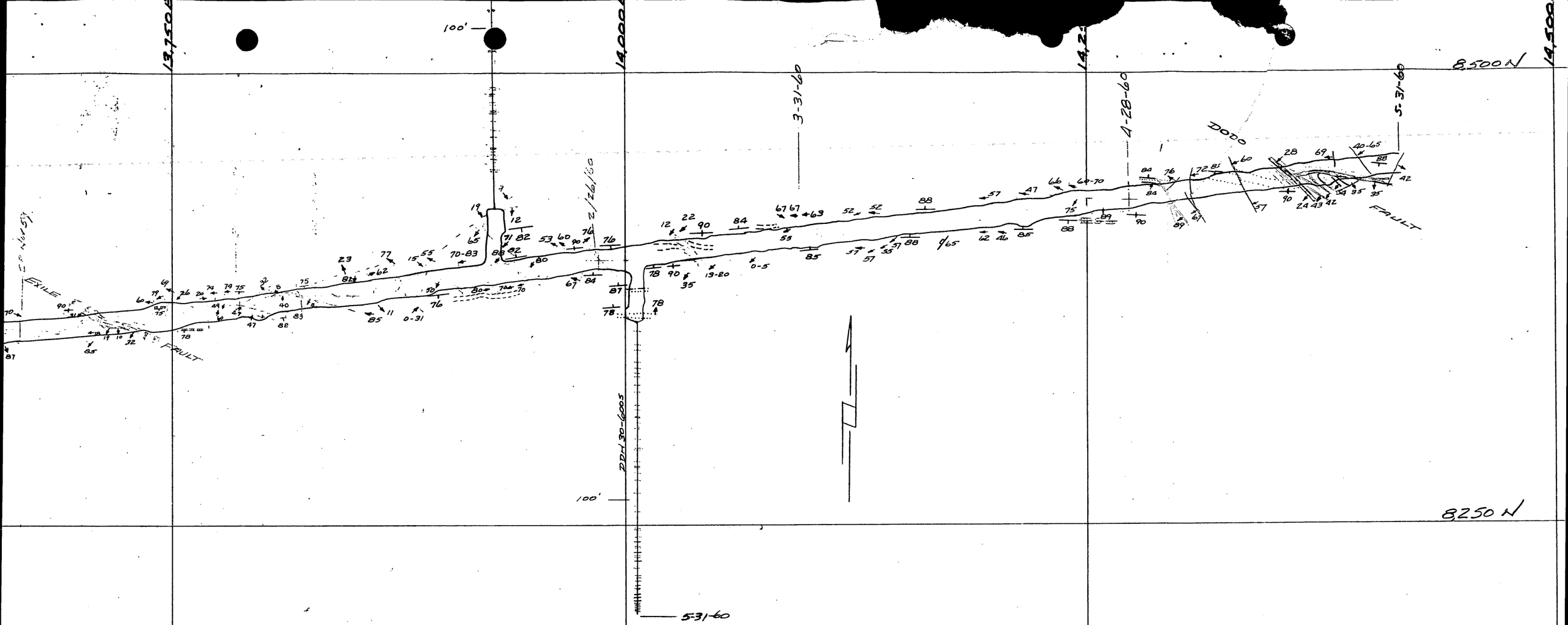

9,500 N
14,000 E
1010' 5-11-60
1000'
DDH 30-607 N
900'
9,250 N
800'
4/29/60
700'
-10°
600'
9,000 N
TO ACCOMPANY: MEMO.
JUN 6 1960
By: SNK
Filed:
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL EAST
DDH 30-607 N
Scale 1" = 50'
Drawn WCM
Date 5-31-60
Approved
File No. N-150-P-190



TO ACCOMPANY: MEMO.
JUN 6 1960
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PALE				
GEOLOGY	3070 LEVEL EAST DDH 30-6005			
Scale 1"=50'	Drawn WBM	Date 5-31-60	Approved	File No. N-150-P-182

PLATE 2

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn		LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						757.0 - 765.0 rock is lt grn to white & strngly calc.				750									
							751.4												
								4.4/5.3	83										
							756.7												
								2.0/2.8	71										
							759.5			760									
								3.3/4.8	69										
							764.3												
765								1.7/3.4	50										
		NT	NT	NT			767.7												
								1.4/3.8	37	770									
770							771.5						771.0 - 784.0 rock is highly fract & qzy						
		NT	NT	NT															
								3.9/5.7	68										
775							777.2												
		NT	NT	NT															
780								1.9/6.4	30	780									
		NT	NT	NT															
							783.6												
785						784.0 - 828.0 qtzite ≈50% lt grn to white strngly calc.		2.2/5.4	41										
		NT	NT	NT									790.0 bdg 80°						
							789.0												
790								2.1/4.0	53	790									
							793.0						795.0 wk-mod white qze						
795								4.2/6.5	65			?							
		NT	NT	NT		828.0 - 848.0 org and org qtzite dk ppl. 828 contact sharp. grades to lt green-tan calc @ 848.													
800							799.5			800			800.0 bdg 80-85						
								2.4/5.5	44										
		NT	NT	NT															
805							805.0												
								1.8/5.0	36										
		NT	NT	NT															
810							810.0			810									
		NT	NT	NT				1.3/5.7	23			?	810.0 - 815.0 mod random qze						
815							815.7												
		NT	NT	NT				1.3/4.2	31										
820							819.9			820									

JUN 6 1991 ACCOUNTING

ASSAYS - SLUDGE					DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag	% Pb	% Zn	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
820						819.9			820			827.5 wk qge		
							3.8/4.2	90						
						824.1						828.1 - 854.0 occ wk bdg shear		
							2.2/4.0	5.5						
						828.1					?	830.0 bdg 80°		
									830		80	833.0 ± 6" qge & bx		
							4.3/6.1	70						
						834.2								
					848.0 - 855.0 arg d arg qtzite - lt green to stng calc.							848.6 bdg 78		
							3.0/5.4	56				850.0 - 854.5 high fract		
840						839.6			840					
		0.4	NT	NT			2.2/3.4	65				854.5 6" stng qge		
						843.0								
845					855.0 - 863.8 dike dk green to black stngly calc. first few inches									
		1.2	NT	NT			3.1/6.6	47						
						849.6					78			
850									850					
		Tr	NT	NT			1.8/5.4	33						
855						855.0								
					888.0 - 897.0 arg. qtzite lt grey to ppl. grad. to dk ppl. loc calc							860.0 - 862.0 dike is very soft & qqy.		
							3.0/3.6	83						
						858.6								
860						860.6	1.8/2.0	90	860					
		NT	NT	NT		862.0	0.8/1.4	57				863.8 - 888.0 carc. sand, rounded frags of core w intermixed stng qge. 4°-5° @ 887.5		
						863.8	1.3/1.8	72						
865					897.0 - 914.0 arg & arg qtzite dk ppl.									
		NT	NT	NT										
							0.5/12.2	4						
870									870					
		1.8	NT	NT										
875														
						876.0								
		1.6	NT	NT										
							0.5/6.0	8						
880									880					
		Tr	NT	NT		882.0								
							1.4/6.0	23						
885														
		Tr	NT	NT		888.0								
890									890		60	890.0 bdg 60°		

ASSAYS - SLUDGE					DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	oz Ag	% Pb	% Zn	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov	
890							1.9/6.0	32	890		60				
		NT	NT	NT		894.0									
895															
		1.3	NT	NT			3.0/8.0	38							
900									900			901.5 - 913.0 occ			
		NT	NT	NT		902.0						random wk - mod			
					SURVEY: 903'		3.3/5.5	60				qge. part on bdg			
905					N4½°E -10°							933.0 bdg 40-45 highly			
			X			907.5						folded (924.0? 935.0?)			
910							3.7/5.9	63	910			929.5 - 942.0 occ			
		1.0	NT	NT								bdg fault becomes			
					914.0 - 924.5 arg	913.4						stronger toward 942			
915							2.3/5.0	46							
		Tr	NT	NT	& arg qtzite.							927.5 ≈1" bx			
					lt grn to white -	918.4						931.0 ≈2" qge bx			
920					sfng bleached &				920						
					calc.		2.1/6.1	34							
		NT	NT	NT								942.0 - 972.0 sfng			
925						924.5					40	qge intermixed w			
							2.7/5.0	90			45	core. (HW Osburn fault?)			
					924.5 - 933.0 arg	927.5					?				
					dk ppl occ arg qtzite	930.0	2.0/2.5	80	930			942.0 - ≈1" qge			
					w/ lt calc specks						?	947.0 ±2" qge			
							3.1/6.0	52				947.7 1" qge			
					933.0 - 1010.0? arg										
935					& arg qtzite. lt grn-	936.0									
		NT	NT	NT	grey to almost white		1.4/5.0	28				949.2 ≈12" qged bx			
					sfng calc. occ							953.5 ≈12" sheared bx			
940					thin beds ppl arg	941.0			940						
											?	955.0 bdg 65			
		NT	NT	NT			2.7/6.6	41				955.0 - 963.0 ≈ 30%			
945												qge slick 65-70°			
											?				
		NT	NT	NT		947.6					?				
						949.2	0.8/1.6	13			?				
950									950						
		NT	NT	NT			2.2/5.5	40							
											?				
						954.7									
955															
							2.2/5.0	44			65				
		NT	NT	NT											
						959.7									
960									960						

ASSAYS - SLUDGE					DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	oz Ag	% Pb	% Zn	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov	
960						959.7			960			964.0-972.0 ≠50% qqe			
		NT	NT	NT			3.0/6.1	49							
965						965.8						972.0 bdg 50-55°			
						968.0	1.1/2.2	50				972.0-981.0 high fract ≠ bxd wk qqe?			
970							2.8/5.5	51	970						
		NT	NT	NT							50 55				
						973.5						977.3-981.0 stng random qqe			
975							1.3/3.8	34							
		NT	NT	NT	977.3 - 1008.0	977.3									
					material rec'd		1.1/3.7	30	980						
980						981.0									
		NT	NT	NT	is 75% sand							985.0? +2" gritty qqe			
					probably cave		2.2/5.4	41							
985						986.4									
		NT	NT	NT			0.5/2.5	20							
						988.9									
990									990						
		NT	NT	NT											
							1.5/8.7	17							
995															
		NT	NT	NT		997.6									
							0.3/5.4	6	1000			1003.0 bdg 70°			
1000															
		0.7	NT	NT		1003.0									
											70				
1005							0.5/5.0	10							
		NT	NT	NT		1008.0									
							0.0/2.0	0							
1010						1010.0			1010						
					END OF HOLE							1010.0'			

American Smelting and Refining Company
DIAMOND DRILL HOLE LOG

Sheet 1 of

Property: PAGE
Location: 3070 LEVEL East Page Drive
Coord.-Collar: E 14,006.4 N 8362.6
Elev.-Collar:
Date-Started: 5/11/60
Completed:

Hole No.: DDH 30-600S
Bearing: South — See surveys
Inclination: 0° — See surveys
Length:
Core Size:
Logged by: SHH

ASSAYS - SLUDGE: Intercept	WL	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	<	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
				3.1/6.0	51						
			6.0								
				2.6/5.0	52	10					
			11.0								
		0-30.0 qtzite & arg qtzite lt green to grey		2.7/5.0	54			85	12.0 bdg 85		
			16.0								
				2.3/4.0	58						
			20.0			20					
			22.0	1.2/2.0	60						
				1.9/3.0	63						
			25.0								
				2.9/5.0	58						
		30.0-85.0 arg 4-10 cc/c arg qtzite med to dk ppl. lac. lt grey disc ribs. arg. lac lt tan (bleached) & calc.	30.0			30					
				2.7/5.0	54						
			35.0								
				2.8/5.0	56						
			40.0			40					
				4.0/5.0	80						
			45.0								
				3.2/5.0	64						
			50.0			50					

TO ACCOMPANY MEMO.
JUN 6 1960
By: SNK
Filed:

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn		LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
							50.0			50									
								3.2/5.0	64										
							55.0						59.0 bdg 85						
								2.0/3.0	67										
							58.0												
							60.0	1.5/2.0	75	60									
								2.2/4.0	55										
							64.0												
65							66.0	1.8/2.0	90										
		Tr	NT	NT				1.0/5.0	20										
70							71.0			70									
		0.4	NT	NT															
75																			
								3.6/14.0	26										
		0.3	NT	NT															
80										80									
		NT	NT	NT		85.0 - 113.0 qtzite													
85						lt grey fg loc	85.0												
		Tr	NT	NT		stng sericite loc													
90						blch'd & calc. occ.				90		80 85	90.0 bdg 80-85						
		Tr	NT	NT		lt grey disc rib		1.2/12.0	10										
						arg													
95						Ex 97'													
		NT	NT	NT			97.0												
								4.0/5.0	80	100									
100							102.0												
								4.0/5.0	80										
							107.0												
						113.0 - 133.0 arg.		4.4/5.0	88	110									
						arg qtzite qtzite ≈													
						equal amts dk ppl	112.0						113.0 bdg 78°						
						occ													
						disc ribs lt grey		4.3/5.0	86			78							
						arg. loc stng													
						blchd & calc.	117.0												
								3.3/5.0	66	120									
							122.0												

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn		LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
										120		85	120.0 bdg 85° irr.						
							122.0												
								3.7/5.0	74				123.0 sev wk bdg faults faint rec ox smears						
							127.0 127.9	0.9/0.9	100										
						133.0- arg & arg qtzite dk ppl. occ disc ribs lt grey arg. loc blchd & calc. more quartzose beyond 145.0'		3.3/5.6	59	130			129.0 sev wk bdg faults faint rec ox smears						
							133.5						134.0 sev wk bdg faults faint ox smears						
								3.2/5.6	57										
							139.1												
								3.7/5.0	74	140		80	140.0 bdg 80						
							144.1												
								3.7/7.2	51										
										150			152.0 wk-mod bdg shear						
							151.3						154.0 wk bdg shear						
								4.0/5.2	77				155.0 wk bdg faults						
							156.5												
								2.0/3.5	57			80 85	157 bdg 80-85						
160							160.0			160									
								1.6/4.3	37										
		0.4	NT	NT			164.3												
165																			
										170									
										180									
										190									

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
JUN 15 1960
U. S. G. S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1960 Docket No. DMEA 4712 Contract No. IDH-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting-Crosscutting	Foot	5,080.00	127.0	184,924.00	4623.1	40.00	12,485	40.00
Timbering	"	1,333.50	127.0	41,273.40	3930.8	10.50	3,950	10.50
Rock Bolting	Each			4,053.00	1158	3.50	4,000	3.50
Car Sidings	Foot			6,660.00	14,800	.45	14,800	.45
D.D.Stations	"			7,000.00	200	35.00	300	35.00
Drilling: Core AX or lar.	"	6,666.00	1010	45,805.35	6,980	)		6.60
EX	"					)	11,855	6.40
Incid.	"	404.00	1010	2,792.00	6,980	.40)		.40
Core Boxes	Each	34.00	10	986.00	290	3.40	290	3.40
Assaying	Det.	141.00	141	1,394.00	1,394	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		13,658.50		294,887.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		13,658.50		294,887.75				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 10, 1960 Operator American Smelting and Refining Company

Per [signature] Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Form MF-104 (Rev.)
(April 1952)

RECEIVED
JUN 15 1960
U. S. G. S.
SPOKANE, WASH.

Budget Bureau No. 42-R1036.5

Feb. 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1960 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	6,666.00	39,139.35	45,805.35			
D. D. Stations		7,000.00	7,000.00			
Crosscutting	5,080.00	179,844.00	184,924.00			
Drifting						
D.D. Incidentals	404.00	2,388.00	2,792.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	1,333.50	39,939.90	41,273.40			
Explosives						
Pipe						
Car Sidings		6,660.00	6,660.00			
Rock Bolting		4,053.00	4,053.00			
Core Boxes	34.00	952.00	986.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	141.00	1,253.00	1,394.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	13,658.50	281,229.25	294,887.75	13,658.50	281,229.25	294,887.25

I certify that the above bill is correct and just and that payment therefor has not been received.

Date June 7, 1960 *Payee American Smelting and Refining Co.

Per J. L. Kinsey Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 6829 25

Signature (Authorized Certifying Officer)

Date 6/24/60 Vou. No. 5381

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. ..... in accordance with the terms of the contract.

Signature ..... Title ..... Date .....

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title ..... Date .....

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF–104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF–104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF–104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF–104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF–200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF–200; and delete word "Independent" if the contract reported is on Form MF–200 (A). Also, report work paid for on a unit basis under contract Form MF–200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF–104 when submitted for reimbursable expenses incurred under contract Form MF–200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF–200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF–104 is required to be documented. The four copies of Form MF–104 are not to be thus supported.

Form MF–104 submitted for reimbursement under fixed price contracts on Form MF–200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF–104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 872893

Form MF-104 (Rev.)
(April 1952)

RECEIVED
MAY 17 1960
U. S. G. S.
SPOKANE, WASH.

Sch. 1777

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1960 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	6,892.95	32,246.40	39,139.35			
~~Drifting~~ D.D. Stations		7,000.00	7,000.00			
Crosscutting	7,740.00	172,104.00	179,844.00			
Drifting						
D. D. Incidentals	422.80	1,965.20	2,388.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	2,031.75	37,908.15	39,939.90			
Explosives						
Pipe						
~~Track~~ Car Sidings	75.60	6,584.40	6,660.00			
Rock Bolting		4,053.00	4,053.00			
Core Boxes	108.80	843.20	952.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	234.00	1,019.00	1,253.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	17,505.90	263,723.35	281,229.25	17505.90	263,723.35	281,229.25

MAY 23 1960 O.M.E.

I certify that the above bill is correct and just and that payment therefor has not been received.

Date May 10, 1960 *Payee American Smelting and Refining Co.

Per J. C. Kiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 8,752 95

Signature Qa
(Authorized Certifying Officer)

Date 5/20/60 Vou. No. 4765

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. ..... in accordance with the terms of the contract.

Signature ..... Title ..... Date .....

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title ..... Date .....

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

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MAY 17 1960
U. S. G. S.
SPOKANE, WASH

MAY 23 1960
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1960 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	7,740.00	193.5	179,844.00	4496.1	40.00	12,485	40.00
~~Crosscutting~~ ~~Timbering~~	"	2,031.75	193.5	39,939.90	3803.8	10.50	3,950	10.50
~~Raising~~ ~~Rock Bolting~~	Each			4,053.00	1158	3.50	4,000	3.50
~~Shafts~~ ~~Car Sidings~~	Foot	75.60	168	6,660.00	14,800	.45	14,800	.45
~~Winzes~~ ~~D. D. Stations~~	"			7,000.00	200	35.00	300	35.00
Drilling: Core ~~AX or Larger~~	"	6,892.95	1057	39,139.35	5970	6.56		6.60
~~Churn~~ ~~EX~~	"						11,855	6.40
~~Auger~~ ~~Incid.~~		422.80	1057	2,388.00	5970	.40		.40
~~Stripping~~ ~~Core Boxes~~	Each	108.80	32	952.00	280	3.40	290	3.40
~~Trenching~~ ~~Assaying~~	Det.	234.00	234	1,253.00	1253	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		17,505.90		281,229.25				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		17,505.90		281,229.25				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date May 10, 1960 Operator American Smelting and Refining Company

Per J. C. Kiesser Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

J. C. KIEFFER
MANAGER

COPY

American Smelting and Refining Company
Northwestern Mining Department
Wallace, Idaho

May 16, 1960

Office of Minerals Exploration
c/o United States Geological Survey
South 157 Howard Street
Spokane, Washington

Attention: Mr. A. E. Weissenborn

Dear Sirs:

Concerning Docket No. IMEA-4712, Contract No. Idm-E 1134, please find the geologists' report on advance in April 1960 and the accountants' report on the month's costs.

Yours very truly,

J. C. Kieffer

Enclosures
cc: OME (4) - w/enclosures.
DJPope - "
SNKesten - "
TMTower - "
WJMurphy - w/reports only.

MAY 23 1960
O.M.E.
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MAY 17 1960
U. S. G. S.
SPOKANE, WASH.

RECEIVED
MAY 20 1960
OFFICE OF THE SECRETARY
FISCAL SECTION

MAY 23 1960
O.M.E.

Wallace, Idaho
May 16, 1960

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE DRIVE
PROGRESS REPORT - - APRIL 1960

Advance for April in the East Page Drive was 193.5 feet for a total under the OME contract of 4,229.9 feet. In this advance, the rock is predominantly grey-green to purple argillaceous quartzite with interbedded quartzite and argillite. The bedding and numerous chloritic bedding plane faults continue to parallel the drive and dip steeply north or south. A significant fault is exposed striking N. 20° E. and dipping 46° to 47° W. No mineralization is exposed.

In DDH 30-662N, advance was 190.0 feet to 1,057.0 feet, where the hole was stopped. The rock is predominantly grey to light-green argillite and argillaceous quartzite which is bleached and calcareous. A black fine-grained basic dike was cut from footage 977.0 to 990.0. Very poor core recovery from footage 952.5 to the end of the hole may indicate the nearness of the Osburn fault.

DDH 30-607N was collared and drilled at approximate coordinate 13,925 E to a depth of 747.0 feet and is continuing. The hole penetrated predominantly purple to grey-green argillite with interbedded quartzite and intermediate rocks. Locally the rock is bleached and calcareous. A zone of strong faulting and brecciation was encountered from footage 326.0 to 353.0.

Total diamond drilling under the OME contract is 6,917 feet.

Plate 1 is a plan showing geology of the advance in DDH 30-662N, and Plate 2 is a plan of the geology of the advance in the East Page Drive and in DDH 30-607N. Core logs for the footages drilled are also attached.

Respectfully submitted,
Original Signed by
S. N. KESTEN
S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, geology of advance in DDH 30-662N - - - - 1" = 50'

Plate 2 - Plan, geology of advance
in East Page Drive and in DDH 30-607N - - - - 1" = 50'

Core Logs: DDH 30-662N - 890' to 1,057'
DDH 30-607N - 0' to 750'

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9,500 N

1057'

4/30/60

1000'

DDH 30-692 N

900'

9,250 N

3/31/60

800'

-50°

TO ACCOMPANY: MEMO.
MAY 16 1960
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL EAST PAGE DRIVE			
Scale 1"=200'	Drawn WCM	Date 5-1-60	Approved	File No.

PLATE 1

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Oz Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
890						892.0 - 1057.0 arg &		1.1/5.0	22	890									
					453	arg qtzite pred grey-	892.0												
		NT	NT	NT	24	lt. green & occ ppl. stng													
895						bleaching & bdg		1.7/10.0	17										
		NT	NT	NT	453 25	& fract stng													
900						cater. occ ox				900			905.0 bdg. 75						
					453	py blebs &	902.0												
		NT	NT	NT	26	disc veinlets													
905								2.4/5.0	48			75							
					453		907.7												
		NT	NT	NT	27														
910								1.1/4.3	26	910									
					453		912.0												
		NT	NT	NT	28														
915								2.0/5.7	35										
					453														
		NT	NT	NT	29		917.9												
920								1.6/5.0	32	920		?	920.0 (?) +6" stng. qge						
					453														
		NT	NT	NT	30		922.7												
													925.0 bdg 80°						
925								2.0/4.7	43			80							
					453														
		NT	NT	NT	31		927.4												
930								1.5/5.9	25	930									
					453								934.0 stng bdg						
		NT	NT	NT	32		933.3						fault ± 1" qge						
935												80							
								3.4/4.2	81										
							937.5												
								4.5/5.5	82	940									
							943.0												
								2.3/4.0	58										
							947.0												
950						rock is more		5.1/5.5	56	950			950.0 bdg 80°						
					453	quartzose from						80							
		NT	NT	NT	33	953.0	952.5												
955								1.3/5.5	24				952.5 - 1057.0 core						
					453								loss may indicate						
		NT	NT	NT	34		958.0						Osburn fault						
960										960									

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RECEIVED MAY 15 1961 BY

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.	
960										960						
		NT	NT	NT	453 35		1	1.0/5.0	11				925.0-977.0 broken aug sand wk agg?			
965																
		NT	NT	NT	453 36		967.0									
970										970			977.0? - 987.0 black basic dike			
								1.6/6.0	13							
		NT	NT	NT	453 37								987.0-988.0 broken? agg?			
975							975.0						988.0-990.0 black basic			
		NT	NT	NT	453 38							?	dike (cave between dikes?)			
980										980						
								2.6/12.0	22							
		NT	NT	NT	453 39	996.0-1007.0- cave										
985						mostly sa. & round										
		NT	NT	NT	453 40	frags.	987.0					?				
							990.0	2.4/3.0	80	990						
990																
		NT	NT	NT	453 41			0.7/6.0								
995							996.0									
		NT	NT	NT	453 42											
1000										1000						
								0.4/11.0	4							
		NT	NT	NT	453 43											
1005																
		NT	NT	NT	453 44		1007.0									
1010										1010			Note. From 1007.0 there appears to be some agg with the sand.			
		TR	NT	NT	453 45			sand	0							
1015							1015.0									
		0.3	NT	NT	453 46			cond	0							
1020							1021.0			1020						
		TR.	NT	NT	453 47			1.1/5.0	22							
1025																
		NT	NT	NT	453 48		1027.0									
1030								sand	0	1030						

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ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
~~1030~~										1030									
							1032.0												
		NT	NT	NT	453 49		1033.0 sand		0										
1035																			
		NT	NT	NT	453 50			1.6/9.0	18										
~~1040~~						1042.0(?) 1' ppl arg.				1040									
							1042.6												
		NT	NT	NT	453 51								1045.0 - ? bxn &						
1045								1.5/5.0	30				9.9e.						
		TR	NT	NT	453 52		1047.0												
								0.0											
~~1050~~									0	1050									
							1052.0												
		TR	NT	NT	453 53			sand	0										
1055																			
		~~NT~~	~~NT~~	~~NT~~	453 54														
1057							1057.0												
						END			OF		HOLE								

MAY 23 1980 O.M.E.

American Smelting and Refining Company
DIAMOND DRILL HOLE LOG

Sheet ____ of ____

Property: PAGE
Location: 3070 LEVEL East Page Drive
Coord.-Collar: E. 13,927.2 N. 8424.5
Elev.-Collar:
Date-Started: APR 11/60
Completed:

Hole No. 30-607 N
Bearing: N see surveys
Inclination: 0° see surveys
Length:
Core Size: NX - BX
Logged by: SHH

ASSAYS - SLUDGE: Intercept	Wt.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	<	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov
		0'-10' NC.									
				5.0/10.0	50						
		0-215.0 arg									
		arg gtzite & sparse gtzite lt grey to pplish w/ occ ribs lt grey arg.	10.0			10		85	10.0 bdg 85°		
				3.6/5.0	74						
			15.0								
				3.5/5.0	70						
			20.0			20		?	20.0 ± 1" gge		
				4.4/5.0	88			85	22.0 several wk bdg faults		
			25.0								
				4.3/5.0	86						
			30.0			30					
				4.5/4.6	98			85	32.0 bdg 85		
			34.6								
		32.0-53.0 pred		4.4/5.0	88						
		ppl-grey gtzite	39.6			40		40	40.2 wk gge 40°		
				4.7/5.6	84						
			45.2								
				3.8/5.2	73						
			50.4			50					

TO ACCOMPANY MEMO. MAY 16 1960 By: [illegible] Filed

MAY 23 1960 O.M.E. ONTARIO MINISTRY OF NATURAL RESOURCES

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
										50			52.0 bdg 85°						
								4.6/5.2	88			85							
													54.5 ≈ 2" stng chl						
							55.6					60-80	shear 60-80°						
						60.0 173.0 ≈ 50%		2.8/5.1	55										
						ppl-grey qtzite	60.7			60									
								3.5/5.2	67										
							65.9												
								3.0/5.1	59	70									
						occ bleached calc	71.0												
						xcts beyond 69.0'		3.1/5.5	56										
							76.5												
								2.8/5.5	51	80		80	80.0 bdg 80°						
							82.0												
								2.8/4.3	65										
							86.3												
								4.3/4.4	98										
							90.7			90		80	90.0 bdg 80°						
								4.4/5.4	81										
							96.1												
								4.1/5.2	79										
							101.3			100									
								4.2/5.2	81			25-35	102.0 1½" bxn & qqc						
													black-green chl						
													slicks 25°-35°						
							106.5					35							
								3.3/5.0	66	110			103.0 - 110.0 occ wk						
							111.5						bdg flt						
								4.3/5.0	86				105.5 +2" qqc & bxn						
							116.5						≈ 35°						
								3.7/5.0	74	120									
							121.5												

MAY 23 1984 O.M.E.

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
										120			120.0-121.0 random wk qge.		
							121.5								
								4.1/5.0	82				126.0 sev. wk bdg flts @ 80-85		
							126.5					80-85	126.2 ≈1" qge @ 80°		
								4.4/4.9	90	130					
							131.4								
								4.1/5.0	82				135.0 bdg 85°		
							136.4					85			
								4.9/5.1	+7 96	140					
							141.5								
								4.8/5.2	92						
							146.7								
								3.8/5.5	69	150					
							152.2						156.5 wk qge		
								3.7/4.8	77						
							157.0					?	160.5 ≈12" qge & bxn slicks 60-65°		
								4.3/5.0	86	160					
							162.0					60-65	162.0-163.0 wk random qge		
								2.9/4.0	73						
							166.0								
								2.8/5.0	56						
						173.0-215.0 prod dk ppl arg & arg qfzite				170		60	170.0 ≈3" qge & bx @ 60°		
							171.0								
								4.9/5.5	89				171.0-200.0 occ wk bdg fault		
							176.5								
								4.1/5.3	77	180			181.0 stng FeO slick 60°		
							181.8					60	182.0-197.0 many faults & fracts calcite on fracts		
								4.3/5.2	83						
185													186.0 1" red-green chl qge		
							187.0								
		TR	NT	NT	453 55										
								2.1/5.0	42	190			191.5 ≈5" stng qge slicks 35 & 70°		
190							192.0					70			

MAY 23 1960 OMNE

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	WL	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
190						215.0-283.0 qtzite				190					
						lt grey wp occ	192.0								
		0.1	NT	NT	453 56	1'-2' bcc ppl arg		4.3/5.0	86			35-70	196.5 stng gge ∥ core		
195						& arg qtzite occ						0°			
						bleached calc sect.	197.0								
						part ox py in		4.1/5.3	75	200		85	200.0 bdg 85		
						lt colored areas	~~203.5~~								
								4.5/5.2	87						
							207.7								
								4.5/4.5	100	210					
							~~212.2~~								
								3.6/4.8	75						
							217.0								
								4.0/5.0	80	220					
							222.0						225.0 mod fault @ 40°		
								4.4/5.5	80			40			
							227.5					85	227.0 1" chl shear on bdg 85		
								4.2/4.5		230					
							232.0								
								4.3/5.0	86			?	235.0 wk random gge		
							237.0								
								4.1/5.0	82	240					
							242.0								
								4.2/5.0	84						
												80	245.0 bdg 80°		
							247.0								
						Survey 250'		4.5/5.0	90	250					
						N ½° W -9°						0°	252.0 wk ppl coated		
							252.0						slick ∥ core		
								4.6/5.0	92			85			
							257.0						255.0 bdg 85°		
								4.0/5.0	80	260			262.0 ≈6" gge &		
							262.0						bx non bdg		

MAY 23 1960 ONE

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
										260									
							262.0					85							
								4.2/5.0	84										
						283.0 - 311.5 arg & arg qtzite ppl w disc ribs grey org. occ bleached calc. sect	267.0						267.5 wk qge & slick 35°						
								4.2/5.5	78	270		35							
							272.5					45	272.0 3/4" qtz s.d 45°						
								3.4/5.5	62				272.0 - 285.0 occ wk bdg fault w some red FeOx coating						
							278.0												
								4.1/5.5	74	280									
							283.5												
								3.8/5.0	76										
							288.5												
										290		80	290.0 bdg 80°						
								4.4/5.5	80										
							294.0						298.0 ≈ 4" stng grey-ppl qge bdg ?						
								3.6/5.5	65										
												80?							
							299.5			300			301.0 wk bdg flt.						
												80							
								4.3/5.5	78										
							305.0												
						311.5 - 356.0 qtzite & arg qtzite: lt grey to pplish. occ bleached & calc. sparse ribs lt grey arg.		4.2/5.5	76										
							310.5			310			310.5 several wk bdg flts						
								4.3/5.5	78										
							316.0						316.0 - 341.0 numerous bdg flts & shears w red FeOx coating 319.0 3" shear						
								4.1/4.8	85										
							320.8			320		80							
								4.2/5.0	84										
							325.8					45	320.0 bdg 80°						
								4.3/4.7	91				326.0 - 328.0 wk - mod bx & shear slicks 45-60°						
												LO							
							330.5			330									

MAY 23 1960 O.M.E.

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	oz Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.	
							330.5			330						
								4.2/5.2	81			45	331.0-334.0 wk-mod shearing @ ≈45°			
							335.7					75				
								3.9/5.3	74			50				
340										340		65				
							341.0						334.0-341.0 stng bx & qgc slicks(FeOx) @ 75°-50°-65°-60°			
		NT	NT	NT	453 57			0.0 soft/5.2	0			60				
345							346.2					?	341.0-346.2 no core soft (fault ?)			
		NT	NT	NT	453 58	356.0-375.5 arg & arg qtzite ppl. occ ppl qtzite. num ribs lt grey arg loc blchd & calc.		3.2/6.8	47			?				
350										350			346.2-353.0 high fract random qgc - 4" @ 348.0'			
		NT	NT	NT	453 59		353.0									
355								3.3/5.0	70							
							358.0									
								4.5/4.7	96	360		80	360.0 bdg 80°			
							362.7									
						375.5-384.0 qtzite occ arg qtzite lt grey.		4.0/5.0	80							
							367.7									
370							370.0	2.0/2.3	87	370						
								0.7/3.0	23							
		NT	NT	NT	453 60		373.0									
375							375.5	1.5/2.5	60							
						384.0-467.0 arg & arg qtzite ppl. occ pp qtzite num ribs lt grey arg: rock loc bleached & calc.		4.3/5.0	86							
							380.5			380			384.0 ±2" shear zone contact lt grey qtzite & ppl arg			
								4.8/5.0	96			80				
							385.5									
								4.2/5.0	84							
							390.5			390		83	390.0 bdg 83°			
								4.0/4.0	100							
							394.5									
395												80	395.0 bdg 80°			
		TR	NT	NT	453 61			3.5/5.0	70							
							399.5									
400										400						

MAY 23 1968 O.M.E.

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
400								2.2/5.0	44	400					
					433							70	401.0 1½" qgc red-black		
		TR	NT	NT	62		404.5						FeOx slicks @ 70°		
405															
					433			2.5/5.0	50						
		NT	NT	NT	63		409.5								
410								3.5/4.2	83	410		73	410.5 1½" qgc & bx red-black FeOx slicks 73°		
							413.7								
								4.6/4.8	96						
							418.5								
							421.0	2.3/2.5	92	420		86	421.0 bdg 86°		
								4.3/5.0	86						
							426.0								
							426.5	0.565	100						
								2.4/2.8	86						
							429.3			430					
								3.5/4.1	85				433.0 bdg 88.		
							433.4					88			
								3.8/4.0	95						
							437.4								
								3.0/4.6	65	440		70	440.0 bdg 70		
							442.0								
						467.0-491.0 gneiss	443.5	0.8/1.5	53						
						& arg gneiss lt grey									
						occ pplish, occ		4.0/5.0	80				449.0 ≈1" wk bx		
						bleached & cale	448.5								
										450					
								3.5/4.8	73						
							453.3					72	453.0 bdg 72		
								3.0/3.7	81						
							457.0								
												80	458.0 bdg 80		
								3.5/5.0	70	460					
							462.0								
								4.0/5.4	74				465.0 ≈12" qgc & bx sev		
												53	black slicks @ 53°,		
												80			
												37	37 & 70°		
							467.4								
								4.0/4.6	87	470		85	470.0 bdg 85°		
							472.0								

MAY 23 1960 O.M.E.

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
										470									
							472.0												
								4.0/4.1	98										
							476.1												
								3.7/4.2	88										
480							480.3			480			482.5 ≈12" wk bx						
													stng fault @ 70°						
		0.6	NT	NT	453 64		484.5	4.0/4.2	95			70							
485																			
								1.3/3.6	36										
		NT	NT	NT	453 65		488.1												
490						491.0 – arg		1.1/4.1	100	490		80	490.0 bdg 80						
						& arg qtzite ≈ pa-ise	492.2												
		0.1	NT	NT	453 66	qtzite lt grey to													
495						green w occ ppl		3.5/5.5	64										
						beds. (stng bleached)	497.7					75	496.0 bdg 75						
500						lt rock gen. calc.				500									
						ll bdg & on fract.		0.5/5.6	9										
		0.1	NT	NT	453 67	some calcite	503.3					88	503.0 wk flt 88						
505						veinlets													
								2.7/5.4	50										
		0.3	NT	NT	453 68		508.7												
510										510									
								4.3/5.3	81										
												82	512.0 bdg 82						
							514.0												
						520.0 - 526.0 qtzite		3.7/5.0	74										
						lt grey to pplish	519.0												
										520									
								4.3/5.7	75										
							524.7												
								4.8/5.8	83				530.0 bdg 75						
						536.0 - 580.0 qtzite	530.5			530		75	535.0 ±4" wk bxn alt qge						
						pred lt grey to							on bdg.						
						ppl. grades		3.3/5.0	66										
						to grey green arg	535.5												
						qtzite & arg		3.7/5.0	74										
							540.5			540									

MAY 23 1969

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
540							540.5	0.7/5.0	23	540									
		NT	NT	NT	453 69		543.5												
545							544.9	1.4/0.2	86										
							546.8	1.9	1										
		NT	NT	NT	453 70			4.0/5.7	70										
550										550									
							552.5												
		NT	NT	NT	453 71														
555								1.3/6.0	21			75	555.0 bdg 75						
		TR	NT	NT	453 72		558.8												
560										560									
								2.8/4.8	58										
		O.S.	NT	NT	453 73		563.3						565.0 wk bxn qgc						
565								1.4/5.5	25			?							
		NT	NT	NT	453 74		568.8												
570										570									
								2.9/5.2	56										
							574.0												
575								2.8/5.0	56										
		TR	NT	NT	453 75		579.0												
580										580			580.0 bdg 75						
								1.6/4.0	40										
		TR	NT	NT	453 76		583.0												
585								3.5/5.0	70										
		TR	NT	NT	453 77		588.0												
590								1.1/5.0	22	590			590.0 bdg 80						
		NT	NT	NT	453 78	588- cave at	593.0												
595						begin of runs beyond		2.0/4.9	41										
		0.3	NT	NT	453 79	this footage. no	597.9												
600						vis gge in areas		0.2/3.1	6	600									
						of poor recry.	601.0												
		NT	NT	NT	453 80			0.1/5.0	2										
605							606.0												
		NT	NT	NT	453 81			1.3/4.0	33										
610							610.0			610									

MAY 22 1980 OMF

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
610							610.0			610			610.0 bdg 70						
								0.9/3.0	30			70							
		NT	NT	NT	453 82		613.0												
615								1.0/3.0	33										
							616.0												
		NT	NT	NT	453 83			1.6/2.4	67										
							618.4												
620										620									
								4.1/5.5	75										
							623.9						625.0 bdg 70						
							624.9	3.0/5.0	60										
625												70							
								2.6/4.6	57										
		NT	NT	NT	453 84		629.5												
630							631.0	0.3/1.5	20	630									
								2.2/3.0	73										
		NT	NT	NT	453 85	631.0-695.0 rock	634.0												
635						is lt green bleached		1.1/2.5	44										
		NT	NT	NT		& stngly calc.	636.5												
						loc. granulat &		1.8/5.5	33										
640		NT	NT	NT		friable				640									
							642.0												
							644.1	1.2/2.1	57										
645																			
								1.9/6.3	30										
		NT	NT	NT															
650							650.4			650									
								1.7/2.6	65										
		NT	NT	NT			653.0												
								0.3/5.0	6										
655																			
		NT	NT	NT			658.0												
								2.1/2.6	81										
660							660.6			660									
		NT	NT	NT															
								0.7/5.0	14										
665							665.6												
		NT	NT	NT				0.6/5.2	12										
670							670.8			670		70	670.0 bdg 70						
								1.4/3.2	27										
		1.1	NT	NT															
675							676.0												
								3.4/4.0	71										
		NT	NT	NT															
680							680.8			680									

MAY 23 1960 O.M.E.

ASSAYS - SLUDGE Intercept	Wt.	oz Ag	% Pb	% Zn		DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
~~680~~		NT	NT	NT			680.8			680					
								8.6/5.2	12						
685							686.0								
		NT	NT	NT											
~~690~~								0.9/9.3	10	690					
		NT	NT	NT											
695							695.3								
		0.2	NT	NT				2.7/5.2	52						
~~700~~							~~700.5~~			700		80	700.0 bdg 80°		
								1.8/4.0	45						
		NT	NT	NT											
705							~~704.5~~								
								4.5/8.1	~~56~~						
										710					
							~~712.6~~					80	712.0 wk shear bdg		
								4.7/6.9	68						
							719.5					80	719.0 wk shear bdg		
~~720~~						719.0 sand at begin				720		80	stng sercten		
		NT	NT	NT		run	722.0	1.8/2.5	72				720.0 bdg 80°		
725								1.7/5.4	31						
		NT	NT	NT			727.4						728.0 ± 12" mod shear		
~~730~~												80	on bdg stng sercten		
								3.3/5.6	59	730					
							733.0								
						735.0 - 755.0 pred		2.3/3.7	62						
						qtzite lt grn-grey	736.7								
						occ pplish		4.2/5.3	79	740			740.0 bdg 80		
							742.0								
								2.9/5.4	64						
							747.4								
								2.6/4.0	65	750					
							751.4								

MAY 23 1960 O.M.F.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
May 9, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAY 12 1960

DATE	INITIALS	CODE
5-12	gad	VVO
5/13	[illegible]	110
5/14	[illegible]	800
~~5/16~~	~~Murphy~~	~~500~~

Memorandum

To: Chief, Division of Field Operations, OME

From: Acting Field Officer, Region I

Subject: Transmittal of inspection report

Enclosed are the original and two copies of the following interim inspection report:

DMEA		Date
4712	American Smelting & Refining Co., East Page Mine, Shoshone County, Idaho	4/29/60

D. R. MacLaren

D. R. MacLaren

Enclosure

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAY 12 1960

DATE	INITIALS	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1201 N. Division St.
Spokane 2, Washington

April 29, 1960

MEMORANDUM

To: D. R. MacLaren, Acting Field Officer, Region I

From: S. W. Zoldok, Mining Engineer, Bureau of Mines

Subject: Interim inspection report, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The project was inspected on April 27, 1960, accompanied by J. N. Butler, Jr., mining engineer. The previous inspection was made on February 25, 1960, by R. D. Sample, geologist, U. S. Geological Survey.

All the senior mine officials were in Wallace negotiating a new contract with the mine-mill union. The rumor is that negotiations are deadlocked, neither side willing to compromise.

Since Mr. Sample's visit the 3070 level east drive has been advanced 250 feet. The drift continues in thin bedded purple argillite and quartzite. Numerous bedding plane faults parallel the drift and close timbering is required. The drift has cut a number of cross faults roughly parallel to the Exile Fault zone.

Diamond drill hole H30-662N was advanced to 890 feet, and a seventh hole H30-607N was at 616 feet. No significant mineralization was penetrated.

Contract Measurements (3070 DE)

Drifting:

Previously reported to T.S. 1-8	3,785.32 ft.
T.S. 1-8 to T.S. 1-9	181.0 "
Total to T.S. 1-9	3,966.32
T.S. 1-9 to face	196.00
Total drifting to April 27, 1960	4,162.32 ft.

Authorized 13,485 raise drifts JMJ

Timbering:

Previously reported to T.S. 1-8	3,260.26 ft.
T.S. 1-8 to T.S. 1-9	181.00 "
Total to T.S. 1-9	3,441.26
T.S. 1-9 to end of timber	187.0
Total timbering to April 27, 1960	3,628.26 ft.

706 XCS (No. 1 XCS)
714 XCN (No. 1 XCN)

Same as inspection report dated January 12, 1960.

Car siding excavations:

Previously reported	14,678 cu.ft.
At T.S. 1-8 + 146 ft.	367 cu.ft.
At T.S. 1-9 + 164 ft.	367 cu. ft.
Total to April 27, 1960	15,412 cu. ft. 1/

1/ Maximum authorized under contract 14,800 cu.ft.

Diamond drill stations:

800 XCS - 25 ft.	650 XCS - 25 ft.
823 XCN - 25 ft.	662 XCN - 25 ft.
751 XCS - 25 ft.	600 XCS - 25 ft.
767 XCN - 25 ft.	607 XCN - 25 ft.

Total to April 27, 1960 - 200 ft.

Diamond drilling:

Hole	H30 - 800S	927 ft.
"	H30 - 823N	755 "
"	H30 - 751S	1086 "
"	H30 - 767N	1145 "
"	H30 - 650S	1200 " 2/
"	H30 - 662 N	890 "
"	H30 - 607N	616 "

2/ Only 1,000 ft. reimbursable
Total to April 27, 1960 - 6,419 ft.

Status of contract:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 263,723.35 (thru March 1960)

	Authorized	Completed
Drifting and/or crosscutting (3070 DE - 4162.32) (714 XCN - 234.70) (706 XCS - 31.50)	12,485 ft.	4,428.52 ft.
Diamond drill stations	300 ft.	200 ft.
Core drilling	11,855 ft.	6,419 ft.
Car sidings	14,800 cu.ft.	14,800 cu.ft.
Timbering (3070 DE - 3628.26) (714 XCN - 64.5) (706 XCS - 29.5)	3,950 ft.	3,722.26 ft.
Rock bolts (3070 DE - 872) (714 XCN - 258)	4,000	1,130

S. W. Zoldok

S. W. Zoldok

Distribution:
OME (3)
USGS (2)
USBM (2)

MME FORM 6 REFERENCE SLIP
REV. 2-59 OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. 110	5/5	[illegible]
2. 500		
3. ~~Mr. Murphy~~	~~5/9~~	~~[illegible]~~
4.		
5.		
FROM: 220	5-5	gad

FOR: Check items for action desired

____ Action ____ Reply for signature of _____
____ Approval ____ Investigate ____ Surname
____ Comment ____ Recommendations ____ Signature
____ Conference ____ Rewrite ____ File
____ Instructions ____ Your information

REMARKS:

INT.-DUP. SEC., WASH., D.C. M50943

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED
APR 20 1960

MAY 5 1960
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1960 Docket No. DMEA 4712 Contract No. DM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		32,246.40	32,246.40			
D.D. Stations	1,750.00	5,250.00	7,000.00			
Crosscutting } Drifting }	3,892.00	168,212.00	172,104.00			
D.D. Incidentals		1,965.20	1,965.20			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	1,021.65	36,886.50	37,908.15			
Explosives						
Pipe						
Car Sidings	213.75	6,370.65	6,584.40			
Rock Bolting		4,053.00	4,053.00			
Core Boxes	61.20	782.00	843.20			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	234.00	785.00	1,019.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	7,172.60	256,550.75	263,723.35	7,172.60	256,550.75	263,723.35

I certify that the above bill is correct and just and that payment therefor has not been received.

Date April 15, 1960 *Payee American Smelting and Refining Co.

Per J. L. Hooper Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3586.30

Signature _____ (Authorized Certifying Officer)

Date 5/5/60 Vou. No. 4455

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. ..... in accordance with the terms of the contract.

Signature ..... Title ..... Date .....

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title ..... Date .....

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
APR 20 1960
U. S. G. S.
SPOKANE, WASH.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1960 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting—Crosscutting	Foot	3,892.00	97.3	172,104.00	4302.6	40.00	12,485	40.00
Timbering	"	1,021.65	97.3	37,908.15	3610.3	10.50	3,950	10.50
Rock Bolting	Each			4,053.00	1158	3.50	4,000	3.50
Car Sidings	Foot	213.75	475	6,584.40	14,632	.45	14,800	.45
D.D.Stations	"	1,750.00	50	7,000.00	200	35.00	300	35.00
Drilling: Core AX or larger	"			32,246.40	4913	6.56		6.60
EX	"						11,855	6.40
Incid.	"			1,966.20	4913	.40		.40
Core Boxes	Each	61.20	18	843.20	248	3.40	290	3.40
Assaying	Det.	234.00	234	1,019.00	1019	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		7,172.60		263,723.35				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		7,172.60		263,723.35				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date April 15, 1960 Operator American Smelting and Refining Company

Per J. L. Kiesser Title Manager

REMARKS:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

J. C. KIEFFER
MANAGER

COPY

American Smelting and Refining Company
Northwestern Mining Department
Wallace, Idaho

April 18, 1960

Office of Minerals Exploration
c/o United States Geologic Survey
South 157 Howard Street
Spokane, Washington

Attention: Mr. A. E. Weissenborn

Dear Sirs:

Concerning Docket No. DMEA-4712, Contract No. Idm-E 1134, please find the geologists' report on advance in March 1960 and the accountants' report on the month's costs.

Yours very truly,

ORIGINAL SIGNED
J. C. KIEFFER

Encl.
cc: ✓OME (4) - w/enclosures.
DJPope - "
SNKesten - "
TMTower - "
WJMurphy - w/reports only.

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APR 20 1960
U. S. G. S.
SPOKANE, WASH.

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APR 20 1960
U. S. G. S.
SPOKANE, WASH.

Wallace, Idaho
April 14, 1960

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT -- MARCH 1960

Advance for March in the 3070 East Page Drive was 97.3 feet, to a total under the OME contract of 4,036.4 feet. The rock exposed is predominantly purple argillite with occasional thin beds of purple argillaceous quartzite and quartzite. Bleaching and sericitization in the faulted sections gives the rock a grey-green color. The bedding and numerous weak bedding plane faults continue to parallel the drive and dip steeply north or south. Two strong faults are exposed early in the advance, the strongest of which strikes about N. 35° W. and dips 0° to 22° SW. and makes heavy ground to the present face. Significant faulting near the face strikes N. 75° W. and dips 65° to 70° W.

A diamond drill station has been cut on the north side at approximate coordinate 13,930 E and on the south side at approximate coordinate 14,000 E.

DDH 30-662N was drilled 671 feet to a depth of 867 feet, for a total diamond drill footage to date of 5,980 feet. The rock is predominantly purple to grey-green argillite and argillaceous quartzite, with the exception of a section of light-grey quartzite from footage 280 to 350. Locally the rock is bleached, sericitized and calcareous. The Exile fault zone was encountered from footage 180 to 235 with additional significant faulting and brecciation occurring between footages 422 to 433, 449 to 452 and 460 to 467.

Plate 1 is a plan showing the geology of the advance in the 3070 East Page Drive and in DDH 30-662N. Core logs for footages 190 to 890 are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, geology of advance
in 3070 East Page Drive and in DDH 30-662N - 1" = 50'

Core Logs: DDH 30-662N - - - 190' to 890'

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
190										190									
		TR	NT	NT	452 37			0.0/6.4	0										
195							195.9												
		TR	NT	NT	452 38														
200								1.1/6.5	17	200									
		TR	NT	NT	452 39		202.4												
205																			
		TR	NT	NT	452 40		207.9												
210										210									
		TR	NT	NT	452 41			0.1/7.1	01										
215							215.0												
		01	NT	NT	452 42														
220								1.1/9.5	12	220			224.5 - 255.0 core						
		09	NT	NT	452 43								highly fract. occ						
225							224.5						stng qge & bx.						
		NT	NT	NT	452 44	224.5 - 280.0 arg													
						dk. ppl. to lt. pplish		0.4/3.8	05										
230						grey. lt. colored				230									
		NT	NT	NT	452 45	rock calc. sections	232.0												
						of core contains		0.4/3.8	05										
235						ground, rounded	235.8												
		NT	NT	NT	452 46	frags.		1.1/3.0	37			45	237.5 ±6" stng qge						
							238.9						& stng poorly cmtd						
240										240			bx @ 45°						
		NT	NT	NT	452 47	Drill runs at		1.0/4.0	25										
						235.8 & 251.7	242.8												
245						begin up cave &		1.0/4.2	24										
		NT	NT	NT	452 48	sand.	247.0												
							249.2	4.2/4.2	100										
250								1.8/3.6	50	250									
		NT	NT	NT	452 49		251.6												
							252.9	0/3.3	0										
								1.0/2.1	48										
255						255 - 282 - Cave +	255.0												
		NT	NT	NT	452 50	Sand at beginning		1.2/3.1	39										
260						of Runs	260.1			260									
							260.5	1.2/2.0	68										

TO ACCOMPANY REPORT
APR 14 1960
Fig. 4
SUNK

ASSAYS - SLUDGE Intercept	Wt.	oz Ag	% Pb	% Zn	No.
260					
		NT	NT	NT	452 51
265					
		2.4	NT	NT	452 52
270					
		NT	NT	NT	452 53
275					
		NT	NT	NT	452 54
280					

DESCRIPTION — LITHOLOGY, ALTERATION, MISC.

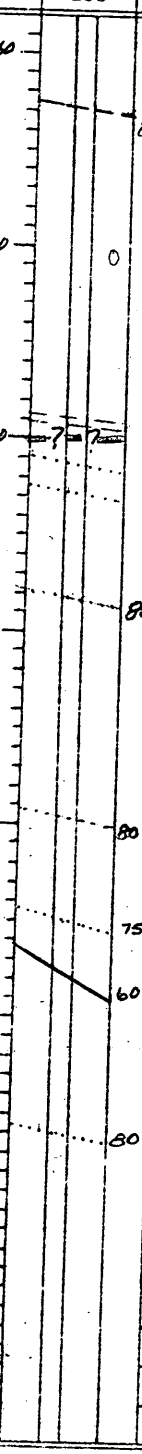
280.0 - 350.6 white lt to mod grey, somewhat massive, occasionally acq in sheared sects. sharp contact between arg & qtzite (fault contact?) occ sparse ribbons of grey arg. & calc. lt grey to tan streaks

RECOVERY

Drill Run	Core	%
~~260.5~~		
	1.4/2.7	58
263.2		
	1.7/3.6	47
~~266.8~~		
	1.6/1.7	94
~~268.5~~		
	1.7/3.4	50
271.9		
	1.2/5.1	24
277.0		
	2.2/4.0	55
281.0		
281.9	3.9/4.9	79
	2.5/4.1	61
286.0		
	2.1/4.0	53
290.0		
	1.6/3.0	53
293.0		
	1.6/3.0	53
296.0		
	3.2/5.5	58
301.5		
	4.7/5.0	94
306.5		
	3.3/3.4	97
309.9		
	2.3/2.7	85
312.6		
	2.1/2.4	86
315.0		
	1.2/2.0	60
317.0		
	1.2/2.0	60
319.0		
	2.8/3.6	78
~~322.6~~		
	3.4/3.4	100
326.0		
327.0	2.8/3.0	80
	3.1/5.0	62
332.0		

FT. 260, 270, 280, 290, 300, 310, 320, 330

GRAPHIC LOG



X	DESCRIPTION — VEINS, MINERALIZATION, FAULTS
85	263 - bd 85°
	280.0 ? fault contact between arg & qtzite ?
	281.0-291.0 weak random gouge & occ bd flt.
80	288.0 bd 80°
80	300.0 bd 80°
75	305.0 bdg 75°
60	307.5 mod fault ppl - black slick @ 60°
80	316.0 bdg @ 80°

ASSAYS - CORE Intercept	% Recov.

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	WL	OZ Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
							332.0			330			331.0 ± 8" stng qqe		
								4.7/5.0	94			50 65	↓ poorly cemented		
													bx slicks @ 50-65°		
							337.0								
340							339.2	3.1/3.2	95						
							340.8	1.8/1.6	63	340					
		NT	NT	NT	452 55	343-350.6 Arg &	343.3	1.1/2.7	41						
345						Qtzite, Lt Gray,						?	343.6 wk grit qqe		
						occ purple	346.4	2.0/2.9	69						
								1.6/2.5	64			80	346 Bd - 80°		
							348.9								
							350.6	4.4/4.9	82	350					
						350.6-361.0 - Arg		2.2/3.3	67						
						& Arg Qtzite, Med	353.9								
						to dk purple		3.3/5.0	66						
							358.9								
								1.9/3.1	61	360			361.5 - wk grit qqq @		
						361.0-365 Qtzite,	362.0					80	80° on bd.		
						Lt Gray to slightly		3.0/5.7	53						
						purple	367.7								
						365-375.0 Arg & Arg		3.1/3.9	79						
370						Qtzite & Sparse				370					
						Qtzite, Purple w/	371.6								
		NT	NT	NT	452 56	Lt Gray calc sections		1.0/3.3	30						
375						375.0-393.5 Arg &	374.9								
						Arg Qtzite, Lt gray to	376.8	1.2/1.5	74				375.0 - 452 Core badly		
						gray, calc		1.8/2.6	82				Broken		
380		NT	NT	NT	452 57		379.0								
							381.0	0.8/2.0	40	380					
							382.5	1.0/1.5	67						
	0.1	NT	NT	NT	452 58										
385							385.2	1.8/2.7	67						
								1.2/3.3	36						
		NT	NT	NT	452 59		388.5								
390												?	388.5 - 12" wk BX's		
		NT	NT	NT	452 60			2.2/5.0	44	390			390 - Bd @ 60°		
												60			
						393.5-399.0 Arg &	393.5								
395						Arg Qtzite, Purple	395.5	1.1/2.0	55						
		NT	NT	NT	452 61							70	395 - Bd @ 70°		
							398.2	1.3/2.7	48						
400						(Survey 400'									
						N 1½ W - 4°)				400					

ASSAYS - SLUDGE Intercept	Wt.	oz Ag	% Pb	% Zn	No	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov
400						399.0 - 402.0 Arg Qtzite, LT Gray		2.6 / 5.7	46	400			401 - 12" poorly cemented string bx.		
		NT	NT	NT	452 62		403.9								
405								2.6 / 5.5	47						
		NT	NT	NT	452 63	402.0 - 416.0 Arg, Arg Qtzite, Sparce Qtzite Purple to greenish	409.4								
410							412.0	1.8 / 2.6	69	410					
		1.2	NT	NT	452 64			+ 1.4 / 4.8	29			75	415 - 1/2" @ 75°		
415						416 - 525.5 Qtzite, LT Gray, occ Argillaceous calc along Fra. 1' Green argillite	416.0								
		NT	NT	NT	452 65			2.0 / 3.2	38	420			422 - 432.9 - NO CORE (FAULT?)		
420							423.0								
		NT	NT	NT	452 66	420.5 becomes 50%-60% arge arg qtzite beyond 500.0 & grnish to		0.0 / 5.0	0						
425							427.0								
		NT	NT	NT	452 67			0.0 / 5.9	0	430					
430						polish. w some remnants dk pol.	433.9								
		NT	NT	NT	452 68		435.4	1.5 / 2.5	60			?	435 - 4" green-gray gge		
435								2.5 / 4.6	54						
						Survey: 400' N 1½° W -4°	440.0			440					
								2.7 / 5.0	54						
							445.0					65	445 ±2" wk Bx Slick @ 65°		
								2.4 / 4.2	57						
							449.2						449-450 Mod gge & Bx		
								2.4 / 2.7	89	450		?	450-452 Strong gge & Bx, Discontinuous Hematite slicks		
							451.9								
								4.4 / 5.1	86						
455							452.0								
		NT	NT	NT	452 69			1.3 / 3.0	43						
							460.0			460			460 - 467(?) Gouge & Little core		
460								0.4 / 4.4	9				464.4 Green arg		
		NT	NT	NT	452 70		464.4								
465								0.9 / 5.0	18						
		NT	NT	NT	452 71		469.4					?	469 - wk red gge		
470										470					

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
										470			467 Bd @ 65°						
								2.6/5.1	51			65							
							470.5												
								2.8/4.5	62										
							479.0												
						Core at begin of runs				480									
						493.6, 495.5 & 497.3		3.2/4.0	80										
							483.0												
								2.4/3.7	65			75	485 - Bd @ 75°						
							486.7												
								3.1/3.5	89										
							490.2			490									
								2.3/3.4	68				495.0 bdg @ 75°						
							493.6												
							495.5	1.7/1.9	89			75							
							497.3	1.4/1.8	78										
								2.0/2.4	83										
							499.7												
							501.5	1.3/1.8	72	500		70	500.0 bdg 70						
								2.3/3.4	68										
							504.9												
								2.7/3.1	87				508.0 bdg 67						
							508.0												
								2.8/3.6	74	510		67							
							511.8						516.0 wk shearing						
								2.4/4.4	55				bdg ?						
515							516.2												
								0.9/2.0	18			70							
		TR	NT	NT	432 72	525.5 - 539.0 arg	518.2												
						& occ arg qtzite dk	519.4	0.5/1.2	42	520			520.0 bdg 75						
520						ppl. calc light						75							
						tan to white sects.	522.6	2.8/3.1	90										
						calcite on fract													
							525.5	1.7/3.0	57										
								2.0/2.0	100										
							527.5						530.0 - 531.0 stng xatl						
								1.7/3.1	55				qge.						
							530.6			530		?	535.0 bdg 70°						
								3.5/4.3	82										
							534.9												
								2.2/2.7	81			70							
							537.6												
							537.8	0.2/0.2	100										
								3.1/3.4	91										
							541.2			540									

ASSAYS - SLUDGE Intercept	Wt.	% Ag	% Pb	% Zn	No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov
						539.0 - 551.0 qtzite									
						lt grey hard				540		75	540.0 bdg 75°		
						argac. at begin	541.2								
						& end of sect. lt		3.7/4.8	77						
						tan calc sects &	546.0								
						calcite on fract.		3.6/5.0	72						
						num ribs. lt grey arg	551.0			550					
						551.0 - arg		3.9/5.6	70						
						w occ arg qtzite	556.6								
						& qtzite lt grn & grey									
						to dk ppl. lt tan bleached		3.1/4.8	65	560					
						& calc sects along	561.4								
						bdg & fract. occ calcite		3.3/4.0	82						
						num. ribbons lt. grey to	565.4								
						green arg.		4.4/6.5	80						
						NOTE:	570.9			570		75	570.0 bdg 75°		
						the lighter colored		3.8/5.0	76						
						intcpts in this sect	575.9								
						appear to be strongly		1.3/1.4	93				580.0 bdg 75°		
						bleached.	577.3								
								3.1/3.8	82	580					
							581.1					75	588.8 - 594.2 wk qqz		
								1.6/2.5	64				in very thin bd'd arg.		
585							583.6								
								2.0/2.6	77						
		TR	NT	NT	452 73		586.2								
								1.6/2.6	62						
590							588.8								
										590					
		NT	NT	NT	452 74			0.9/5.4	17						
							594.2								
595															
		NT	NT	NT	452 75			2.0/4.8	42						
							599.0								
600						Survey 600'				600					
						N½E ~~[illegible]~~ -7°		1.4/5.0	28				606.0 wk random		
		NT	NT	NT	452 76								qqz.		
605							609.0								
								3.4/6.0	57						
							610.0			610					

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
~~610~~		NT	NT	NT	452 77		610.0			610									
								1.7/5.0	34										
615							615.0					70	615.0 bdg 70°						
								2.1/3.5	60										
							~~618.5~~												
								1.9/3.0	63	620									
							621.5												
								3.8/4.4	86										
							~~625.9~~												
							627.3	1.2/1.4	100										
							630.0	2.4/2.7	89	630			635.0 bdg 83						
								2.8/5.0	56										
													637.0 wk bdg fault						
635							635.0					83							
								1.3/2.0	65										
							637.0					83							
		NT	NT	NT	452 78	642.0 - 653.0 qtzite													
						tan qtzite lt grey		1.4/5.0	28	640									
~~640~~		NT	NT	NT	452 79		642.0												
645								2.1/6.0	35										
		NT	NT	NT	452 80		648.0												
~~650~~								2.6/5.0	52	650									
							653.0						656.0 wk bdg fault						
								2.9/3.4	85										
							~~656.4~~												
								1.4/2.1	67										
							~~658.5~~												
										660									
								3.1/4.5	69										
							663.0												
665								1.6/3.4	47										
							~~666.9~~												
		NT	NT	NT	452 81			2.1/2.4	86										
							668.8						670.0 bdg 80°						
~~670~~								1.5/2.1	88	670									
							~~670.3~~					80							
		NT	NT	NT	452 82														
								1.6/4.5	36										
675							675.0												
								2.6/5.0	52										
							680.0			680									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
680							680.0			680									
		NT	NT	NT	452 83			0.4/5.0	08			77	680.0 - 827.0 acc. wk bdg faults						
685							685.0												
		NT	NT	NT	452 84			1.0/5.0	20				680.0 bdg 77						
690							690.0			690									
		TR	NT	NT	452 85			1.3/5.0	26										
695							695.0												
		NT	NT	NT	452 86			1.1/5.0	22										
700							700.0			700									
		NT	NT	NT	452 87			1.4/5.0	28										
705							705.0												
		NT	NT	NT	452 88			1.4/5.0	28										
710						710.0 - 720.0 qtz. ite lt grey hard.	710.0			710									
		NT	NT	NT	452 89			1.0/5.0	20										
715							715.0												
		TR	NT	NT	452 90			1.1/5.0	22										
720							720.0			720									
								3.0/3.3	91				725.0 bdg 75						
							723.3												
725								2.2/3.7	59			75							
		NT	NT	NT	452 91		727.0												
								0.9/5.0	18	730									
730		NT	NT	NT	452 92		730.0												
								1.9/5.0	38										
735																			
		NT	NT	NT	452 93		737.0						738.0 bdg 70						
								2.3/5.0	46	740		70							
740		NT	NT	NT	452 94		742.0												
								1.5/5.0	30				745.0? +1" ppl qgc						
745												?							
		TR	NT	NT	452 95		747.0												
750							750.0	0.9/3.0	18	750									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Ag	Pb	Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
750								1.6/3.3	49	750									
						gray, [illegible]	753.3												
755						[illegible]		1.5/3.7	41										
						Hbd and calc	757.0												
760						rock		2.0/5.5	36	760									
							762.5												
765								1.6/4.5	32										
							767.0												
770								0.4/5.0	8	770		80	770.0 bdg 80						
							772.0												
		NT	NT	NT	433 01														
775								0.5/5.0	10										
		NT	NT	NT	433 02		777.0												
780								0.4/5.0	8	780									
							782.0												
		NT	NT	NT	433 03														
785								0.6/5.0	12										
		NT	NT	NT	433 04		787.0												
790								0.6/10.0	6	790									
		NT	NT	NT	433 05														
795																			
		NT	NT	NT	433 06		797.0												
800								0.3/5.0	6	800									
						Survey 800'	802.0												
		NT	NT	NT	433 07														
805						N -5°.		0.4/5.0	8										
		NT	NT	NT	433 08		807.0												
810								0.5/10.0	5	810									
		NT	NT	NT	433 09														
815																			
		NT	NT	NT	433 10		817.0												
820										820									

ASSA. - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Ag	Pb	Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
820										820									
		NT	NT	NT	433 11			1.0/10.0	20				827.0 - 862.0 rounded						
825													1/8" - 3/4" frags & sand						
		NT	NT	NT	433 12		827.0						(cuttings) no vis gge.						
830										830									
								1.7/10.0	34										
		NT	NT	NT	433 12														
835																			
		NT	NT	NT	433 13		837.0												
840								1.1/5.0	22	840									
		NT	NT	NT			842.0												
					433 14			1.1/5.0	22										
845																			
		NT	NT	NT	433 15		847.0												
850								1.1/5.0	22	850									
							852.0												
		NT	NT	NT	433 16														
855								0.2/5.0	8										
		NT	NT	NT	433 17		857.0												
860								1.0/3.0	20	860			862.0 - occ wk						
							862.0						bdg fault.						
		NT	NT	NT	433 18														
865								1.2/5.0	24										
		NT	NT	NT	433 19		867.0												
870								1.2/5.0	24	870									
							872.0												
		NT	NT	NT	433 20			0.4/5.0	8										
875																			
		NT	NT	NT	433 21		877.0												
880								0.5/5.0	10	880		75	880.0 bdg 75°						
							882.0												
		NT	NT	NT	433 22			0.8/5.0	16										
885																			
		NT	NT	NT	433 23		887.0												
890										890									

MMS FORM 2
REV. 2-59

REFERENCE SLIP

OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. 110	4/4	HS
2. ~~Mr. Mandeley~~ 500	4/6	[illegible]
3.		
4.		
5.		
FROM: 110	4-4	gad

FOR: Check items for action desired

____ Action ____ Reply for signature of ____
____ Approval ____ Investigate ____ Surname
____ Comment ____ Recommendations ____ Signature
____ Conference ____ Rewrite ____ File
____ Instructions ____ Your information

REMARKS:

INT.-DUP. SEC., WASH., D.C.

M50943

D. R. Maclaren, Alternate Acting Executive Officer, OME Field Team, Region I

March 23, 1960

S. W. Zoldak, Mining Engineer

American Smelting and Refining Company, Contract Ide-M134
Monthly operating report for February 1960

You will note that the Operator's narrative and contractor's invoice give the length of DDH-6[illegible] as 1,2[illegible] feet, whereas only 1,000 feet was vouchered. This is proper as the drill hole left the claim boundary at 1,000 feet and the last 200 feet was in land not subordinated under the contract. See S. Norman Keston's letter of December 18, 1959 to Weisenborn and our reply of December 22, 1959.

S. W. Zoldak

RECEIVED
MAR 24 1960

Form MF-104 (Rev.)
(April 1952)

Sch 1482

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED APR MAR 22 1960 U. S. G. SPOKANE, WASH.

Month of February, 1960 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	6,600.00	25,646.40	32,246.40			
~~[illegible]~~ DD Stations		5,250.00	5,250.00			
Crosscutting	6,708.00	161,504.00	168,212.00			
Drifting						
D.D. Incidentals	400.00	1,565.20	1,965.20			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	1,760.85	35,125.65	36,886.50			
Explosives						
Pipe						
~~Track~~ Car Sidings		6,370.65	6,370.65			
Rock Bolting		4,053.00	4,053.00			
Core Boxes	71.40	710.60	782.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	75.00	710.00	785.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	15,615.25	240,935.50	256,550.75	15,615.25	240,935.50	256,550.75

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Mar. 16, 1960 *Payee American Smelting and Refining Co.

Per J. L. Kiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 7,807.63

Signature (Authorized Certifying Officer)

Date 4/4/60 Vou. No. 3920

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. ..... in accordance with the terms of the contract.

Signature ..... Title ..... Date .....

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title ..... Date .....

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAR 22 1960
U. S. G. S.
SPOKANE, WASH.

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1960 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name American Smelting and Refining Company Minerals Lead and Zinc

Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting Crosscutting	Foot	6,708.00	167.7	168,212.00	4205.3	40.00	12,485	40.00
Timbering	"	1,760.85	167.7	36,886.50	3513.0	10.50	3,950	10.50
Rock Bolting	Each			4,053.00	1158	3.50	4,000	3.50
Car Sidings	Foot			6,370.65	14,157	.45	14,800	.45
D.D. Stations	"			5,250.00	150	35.00	300	35.00
Drilling: Core AX or lar.	"	6,600.00	1,000	32,246.40	4913	6.56		6.60
EX	"						11,855	6.40
Incid.	"	400.00	1,000	1,965.20	4913	.40		.40
Core Boxes	Each	71.40	21	782.00	230	3.40	290	3.40
Assaying	Det.	75.00	75	785.00	785	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		15,615.25		256,550.75				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		15,615.25		256,550.75				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date March 16, 1960 Operator American Smelting and Refining Company

Per J. C. Kiesser Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

APR 4 1960
O.M.E.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

J. C. KIEFFER
MANAGER

COPY

American Smelting and Refining Company
Northwestern Mining Department
Wallace, Idaho

March 21, 1960

Office of Minerals Exploration
c/o United States Geologic Survey
South 157 Howard Street
Spokane, Washington

Attention: Mr. A. E. Weissenborn

Dear Sirs:

Concerning Docket No. DMEA-4712, Contract No. Idm-E 1134, please find the geologists' report on advance in February 1960 and the accountants' report on the month's costs.

Yours very truly,

ORIGINAL SIGNED
J C KIEFFER

Encl.
cc: OME (4) - w/enclosures.
DJPope - "
SNKesten - "
TMTower - "
WJMurphy - w/reports only.

RECEIVED
MAR 22 1960
U. S. G. S.
SPOKANE, WASH.

Wallace, Idaho
March 15, 1960

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT -- FEBRUARY 1960

Advance for February in the East Page Drive was 167.7 feet, for a total under the OME contract of 3,939.1 feet. In this advance, the rock is purple argillite containing occasional thin beds of purple quartzite, which locally are moderately bleached. Several strong flat faults continued to make heavy ground in the first part of the advance, however, faulting is relatively minor in the last 100 feet of advance. The bedding and numerous bedding plane faults parallel the drive and dip steeply north or south.

In DDH 30-650S, advance was 234 feet, to 1,200 feet, where the hole was stopped. The hole penetrated light-grey to light-green quartzite which locally is somewhat argillaceous and highly fractured. Significant faulting and brecciation was encountered between footage 1,015.0 to 1,021.8. Strong faulting, which is probably the Spring fault zone, occurs between footages 1,046.5 - 1,054.0 and 1,064.3 - 1,070.0.

DDH 30-662N was collared at approximate coordinate 13,375 E and drilled to 196.0 feet. After penetrating purplish argillite and argillaceous quartzite, it encountered the Exile fault at about footage 180 and was still in the fault zone at the end of the period.

Total diamond drilling under the OME project is 5,309.0 feet.

Plate 1 is a plan showing the geology of the advance in the 3070 East Page Drive and in DDH 30-650S, in February. DDH 30-662N will be shown on maps accompanying the report for March. Core logs for the footages drilled are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, geology of advance
in 3070 East Page Drive and in DDH 30-650S - - 1" = 50'

Core Logs: DDH 30-650S - - 960' to 1,200'
DDH 30-662N - - 0' to 190'

RECEIVED
MAR 22 1960
U. S. G. S.
SPOKANE, WASH.

ASSAYS - SLUDGE: Intercept	Wt.	Ag	Pb	Zn	NO	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	X	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
						888.0 - 922.2 qtzite lt. grey fg. csc gr where bleached w/occ lt tan streaks & spots. arg & arg qtzite in last 5'. sharp contact at 922.2				890					
							892.0	2.6/3.5	74						
							895.5						900.0 bdg 80-85		
								3.4/4.2	81				904.0 - 910.0 wk fract w/ wk bx wk qge		
							899.7			900		80 85			
								3.5/4.5	78						
							904.2								
								4.4/5.3	83						
							909.5			910					
						922.2 - 953.0 qtzite ltgrey to white fg. v.f. brittle. mod. stng silfn.	912.6	2.7/3.1	87						
								4.2/5.2	81 (+2.0)						
							917.8						922.2 - 953.0 core highly fract. no qge. occ poorly def qtz veinlet w/(sid)? bedg obscure		
								3.9/4.4	89	920					
							922.2								
								3.8/4.1	93						
							926.3								
								3.5/4.0	87						
							930.3			930					
								1.7/2.2	77				953.0 - 966.0 occ. frag. vein quartz-sid. 960.0 ± 1" highly fract qtz-sid		
							932.5								
								2.5/4.0	62						
							936.5								
								3.3/5.5	60	940					
							942.0								
								2.9/4.3	64						
						953.0 - 1196.0 qtzite & arg qtzite grn-gry occ. stng silfn.	946.5								
								3.0/5.6	54	950					
							952.1								
								2.7/3.9	69						
955							956.0								
		NT	NT	0.5	452 10			1.8/4.0	45						
960							960.0			960					

TO ACCOUNTANT: MEMO
MAR 15 1960
By: Filed:

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
								2.1/2.8	75	960									
							962.8												
						Bx CORE begins 966.2		2.0/3.4	59				965.5 ±3" qtz. sid 80° (bdg)?						
							966.2					80							
						971.0 - 980.0 arg qtzite		3.0/4.8	63				970.0 bdg 70° gentle fold'g						
						gradational to qtzite				970			966.0 - 982.0 high						
						above & below)	971.0					70	fract core occ slick						
						occ thin sect	973.0	2.0/2.0	100				very little qge.						
						arg. qtzite to 1027.0		3.4/4.0	85				978.0 black chl slick						
							977.0						@ 65°						
												65							
								3.2/6.0	53	980			982.0 wk qge						
							983.0												
985													993.0 ±6" wk bx						
								2.9/4.3	67										
		NT	NT	0.1	452 11		987.3												
990													997.0 bdg 75°						
								2.3/6.2	37	990									
		NT	NT	NT	452 12		993.3						997.5 ±6" qge slick						
995								2.7/4.0	68				@ 35°						
						Survey 1000'	997.5					35							
						SIE		2.6/4.9	53	1000			1003.0 - 1005.0 random						
						+ 2.3°							qge w/ occ bx.						
							1002.4												
								3.2/4.6	70										
							1007.0												
								3.3/3.7	89										
							1010.1			1010			1015.0 2" poorly cement bx						
													1016.2 - 1021.8 strong						
								3.4/5.5	62				random qge & bx						
													no attitudes						
							1016.2												
							1017.5	1.7/1.3	85										
								2.7/4.2	64	1020			1022.0 bdg 75						
							1021.7												
								4.0/4.7	85			25							
1025													1027.0 bdg 75°						
							1027.0		100										
		0.1	NT	0.1	452 13							75							
								2.3/4.8	48	1030									
1030							1032.0												

ASSAYS - SLUDGE Intercept	Wt.	oz Ag	% Pb	% Zn	No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
1030										1030					
					452		1032.0								
		0.2	NT	TR	14			1.0/3.0	33						
1035							1035.0								
					452			0.0/5.0	0						
		TR	NT	TR	15	1045.0-1065.0									
1040						qtzite becomes	1040.0			1040			1041.0 Stng random		
						stng. bleach &		3.3/4.5	73				qge ± 4"		
						med silfd. occ	1044.5								
1045						tan speck									
					452			2.5/4.1	61				1046.5 12" core length.		
		NT	NT	TR	16		1049.6					25 50	ox py smears &		
1050										1050			irr hairlike veinlets		
					452			2.6/5.4	48				slicks @ 20-25 &		
		NT	NT	NT	17								50°		
							1054.0								
1055															
					452			2.7/4.7	58				1048.6 ≈1" qge w ox py		
		NT	NT	NT	18								staing		
							1058.7								
1060						1065.0 - 1107.0				1060			1049.5-1054.0 stng		
						qtzite med altcseqd.		2.6/5.6	46				qge & bx		
					452										
		0.5	NT	NT	19	& sandy except	1064.3						1064.3 24" core length		
1065						for 2 feet green							stng qge & bx		
								2.7/4.2	64						
						acq @ 1079.0'	1068.5						1066.3-1070.0 stng		
										1070			fract w occ stng		
								3.1/5.0	62				qge		
							1073.5								
						Note. Fragments		2.1/3.7	57				1073.0-1079.0 & 1086.0-		
						of core at begin	1077.2								
						of runs 1081.0 & 1084.4							± 1092.0 mod. fract. wk		
						& 1094.2 to 1107.0		2.5/3.8	67				qge @ 1090.0		
1080							1081.0			1080					
					452								1082.0 bdg 55°		
		0.4	NT	NT	20	1107.0 - qtzite	1084.4	2.8/5.4	82			55			
1085						hard dense bdg									
								1.8/5.1	35						
					452										
		0.1	NT	NT	21	mucked by alt									
						lt. dk beds to 1123.0	1089.5								
1090										1090					
						1106.0-1107.0 stng		2.3/4.7	49						
					452										
		NT	NT	NT	22	seratn.	1094.2								
1095															
								0.9/2.5	36						
					452		1096.9								
		NT	NT	NT	23										
								1.9/2.9	66						
1100							1099.6			1100					

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag.	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						1106.0-1107.0 stng		2.6/2.8	81	1100									
						seretzn	1102.8												
								1.8/2.2	82										
						1107.0-1196.0 qtzite	1105.0	0.7/1.0	70										
						hard dense bdg	1106.0 1107.0	1.0/1.0	100										
						marked by alt.		3.0/4.3	70	1110		50	1110.0 bdg 50°						
						lt & dk beds to	1111.3												
						1123.0 occ		2.7/3.5	77										
						lt tan specks	1114.8												
						& wk bleached.		2.4/3.9	62										
							1118.7												
								2.7/4.5	60	1120									
							1122.2												
								2.4/4.6	52										
							1127.8						1128.0 several wk slicks						
								2.8/3.1	90				lt core						
1130							1130.9			1130									
		0.2	NT	NT	452 24			2.7/5.5	49										
1135							1136.4												
		NT	NT	NT	452 25			3.7/4.3	86										
1140							1140.7			1140									
								3.4/4.1	83										
							1144.8						1144.8 1" med random						
								3.4/4.5	76				qge						
							1149.3						1149.0 med qge ± 3/4"						
								2.7/4.7	57	1150									
							1154.0												
								3.0/3.9	77				1157.5 ± 1" qge						
							1157.9												
								2.0/2.3	87			70	1168.0 +1" qge 70°						
							1160.2			1160									
								2.2/3.4	65										
							1163.6												
								3.7/3.9	95										
							1167.5												
								3.4/3.9	87	1170									
							1171.4												

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE		
Intercept	WL	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.	
										1170						
							1171.4									
								2.3/4.2	55							
1175		0.1	NT	NT			1175.6						1175.0-1186.0 occ frag			
					452 26			2.4/5.4	44				qtz & occ py. py also			
1180										1180			diss & along fract.			
		Tr	NT	NT	452 27		1181.0									
								2.9/5.0	58							
1185							1186.0									
		0.1	NT	NT	452 28			1.9/5.2	36							
1190										1190						
							1191.2									
		Tr	NT	NT	452 29			1.7/4.8	35				1197.0 bdg 50°			
1195						1196.0-1200.2 arg glzite	1196.0									
		NT	NT	NT	452 30	lt-grey mod		3.9/4.2	93			50				
1200						sercitzn	1200.2			1200			END OF HOLE			
						1200.0'										

American Smelting and Refining Company Sheet 1 of

DIAMOND DRILL HOLE LOG

Property: PAGE
Location: 3070 LEVEL East Page Drive
Coord.-Collar: E. 13,375.43 N. 8,358.47
Elev.-Collar: 398
Date-Started: 2-20-60
Completed:

Hole No. 30-662 N
Bearing: North
Inclination: Flat
Length:
Core Size:
Logged by: SHH

ASSAYS - SLUDGE: Intercept	WL	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	<	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov
		0-35.0 arg	2.0	2.0/2.0	100						
		ppl & qtzite & arg		4.2/5.0	84						
		qtzite lt grey pplish.	7.0								
		occ calc tan									
		streak 11 bdg.		4.8/5.0	96	10		85	10.0 1" bdg fault & bx		
			12.0						in arg. @ 85°		
				4.9/5.0	98						
			17.0					30	19.0-26.0 broken		
				4.3/5.0	86	20		35	core occ qge & chl.		
			22.0						slick.		
				5.0/5.0	100			45	20.0' 35° slick		
									24.0 . 45° slick		
			27.0					45	18.0 & 26.0 1/4" barren		
		35.0-65.0 qtzite		4.8/5.0	96	30			qtz. @ 30° & 45° resp.		
		darg qtzite lt grey	32.0								
		to pplish. num.		3.7/5.5	67						
		ppl specks FeOx	37.5								
		lt tan to lt grey		1.5/2.5	60	40					
		sect. stng. calc.	40.0								
		65.0-69.9 arg qtzite		5.4/6.0	90				46.4 1" shear in		
		lt grey to green							arg.		
		stng calc.	46.0								
				5.0/5.0	100			85	47.0 bdg 85°		
			51.0			50					

MAR 25 1960
TO ACCOMPANY MEMO.
By

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
										50									
							51.0												
								4.0/4.0	100										
							55.0												
								3.3/3.3	100										
							58.3												
						69.9 - 107.0 pred arg ppl. w occ ppl qtzite & grey arg. calc lt grey to tan bdg streaks & fracts.				60		85	60.0 bdg 85°						
								3.6/5.2	69										
							63.5												
								4.4/6.3	70										
							69.8			70									
								4.6/4.7	98				75.0 bdg 80°						
							74.5												
						107.0 - 135.0 qtzite lt grey occ disc ribbons arg lt grey occ lt tan calc bands, stng section along bdg becomes pplish at end						80							
							77.2	2.7/2.7	100										
								3.8/4.7	81	80		80	80.0 ± 2" bdg shear in arg. 80°						
							81.9												
								9.4/9.7	97				90.0 bdg 80°						
										90		80							
							91.6					80	92.0 wk-mod bdg shear						
								4.0/5.0	80										
							96.6					80	96.0 wk mod bdg shear						
								4.5/4.7	96	100									
							101.3												
								4.1/4.4	93				112.0 3" bx w chl. slicks @ 70°						
							105.7												
								4.6/5.0	92										
							110.7			110									
								5.0/5.2	96			70	116.0 bdg 85						
							115.9					85	116.5 wk slick @ 5°						
								4.8/5.1	94			5							
							121.0			120									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
										120			121.0 wk chl slick		
							121.0					30	@ 30		
								2.5/3.6	69						
							124.6								
								1.7/2.5	74						
							126.9								
								2.2/2.4	92				129.5 wk chl slick		
							129.3						@ 75		
										130		75			
								3.5/3.6	97						
							132.9								
												85	135.0 bdg 85		
								4.6/5.0	92			85			
							137.9								
								2.0/2.1	95						
							140.0			140			133.0-134.0 several		
								1.8/2.6	69				wk bdg slicks.		
							142.6					90	143.0 1½" bx @ 90°		
								2.9/4.3	67						
						155.0 [illegible] arg									
						& arg qtzite ppl to	146.9								
						pplish grey w		2.1/3.1	68						
						ribbons & beds grey	150.0			150					
						org. local bleaching		2.4/3.8	67				155.0 bdg 80-85		
							153.8						167.0 bdg 65°		
												80 85	170.0 - [illegible] sting		
								4.9/6.6	74				fract. w random age		
													rare. bx @ 170.0-172.5		
160							160.4			160			& 175.0-224.5.		
								3.1/6.6	47				Core loss indicates		
		0.3	NT	NT	452 31								probable extreme qqy		
165													zones. (EXILE FAULT)		
		TR	NT	NT	452 32		167.0								
170								3.6/5.3	49	170					
		TR	NT	NT	452 33		172.3								
175								2.7/7.7	35						
		NT	NT	NT	452 34										
180							180.0			180					
		2.3	NT	NT	452 35			0.8/4.8	17						
							185.8								
185															
		0.9	NT	NT	452 36			0.2/4.7	4						
							189.5								
190										190					

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
March 1, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 7 1960

DATE	INIT.	
3-7	gad	VVO
6	[illegible]	110
3/8	[illegible]	800
3/8	[illegible]	500

Memorandum

To: OME Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim inspection report, Docket No. DMEA-4712 (Lead-Zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The project was visited and inspected on February 25, 1960. The previous inspection was made by S. W. Zoldok, Mining Engineer, Bureau of Mines, on December 22, 1959. Troy Tower, Superintendent, was absent from the mine due to a meeting with the board of negotiators and leaders of the labor union. Labor problems continue to be of major importance in the Coeur d'Alene mining district.

A short conference regarding the contract and progress was held at the mine office with C. J. Ward, Assistant Superintendent; John Butler, Chief Engineer; Stanley Huff, Assistant Geologist; and Milton Melcher, Assistant Engineer.

Underground development, mining, and mill processing is on a 5 day per week schedule with one shift on production and two shifts on development and exploration, including the DMEA program. The mill continues on a 3 shift per day schedule and processes about 500 tons of ore per day. Some development and exploration work is being done on the 3400 level, or 330 feet below the 3070 level of the DMEA program.

An underground inspection of the 3070 level was made, accompanied by Mr. Melcher. Progress of the east drive since the last inspection was measured and recorded. The main easterly crosscut continues in a N. 83° E. direction and the east face is now approximately 202 feet beyond the face reported by Mr. Zoldok on December 22, 1959. The last advance was all through thin-bedded, light-colored, argillaceous and siliceous rocks of the St. Regis formation which is badly fractured by joints and bedding plane shears. It slabs readily. Timbering was required to within 5 feet of the working face. At approximately 250 feet back from the present face the east drive intercepted a strong relatively flat-dipping fault which strikes N. 70° W. and dips from 30° to 40° to the SW. The main fault consists of 3-4 feet of gouge on the hanging wall and

45-50 feet of badly brecciated and shattered rock on the footwall. The ground is very heavy and required much timbering and retimbering throughout the zone. Tentatively, this zone is referred to as the "Exile Fault Zone." The present face is in a little stronger rock and the company believes they are through the zone of brecciation. DDH 30-650S was completed at 1,200 feet in depth and is believed to have reached the Spring Fault to the south. According to the company map affixed to Amendment No. 3, the final 200 feet of this hole apparently is outside the ground included in the contract. No significant mineralization was reported. The drillers have moved to the 662NXC and were drilling DDH 30-662N. They had reached a depth of 91.2 feet at the time of inspection. This hole is expected to reach the Osburn Fault Zone to the north in less than 1,000 feet.

Contract Measurements (3070 DE)

Drifting:

Previously reported to Temporary Sta. 1-7	3,617.82 ft.
T.S. 1-7 to T.S. 1-8	167.50 "
Total to Temporary Station 1-8	3,785.32 "
T.S. 1-8 to face	127.20 "
Total drifting to February 25, 1960	3,912.52 ft.

Timbering:

Previously reported to T.S. 1-7	3,092.76 ft.
T.S. 1-7 to T.S. 1-8	167.50 "
Total to Temporary Station 1-8	3,260.26 "
T.S. 1-8 to end of timber	122.20
Total timber to February 25, 1960	3,382.46 ft.

714 XCN (No. 1 XCN) (Coordinate 12,880 E)

No advance was made on this crosscut to the north and the measurements are the same as reported by Zoldok as of December 22, 1959 -- 234.7 feet of advance to the north with the first 64.5 feet timbered and the balance of 170.2 feet rock bolted.

706 XCS (No. 1 XCS)

As previously reported the crosscut remains at 31.5 feet with the first 29.5 feet timbered.

Car siding excavations:

No siding excavations were made since the last inspection and the total to December 22, 1959, remains the same at 14,678 cubic feet.

Diamond drill stations:

Remains the same as December 22, 1959 -- 150 feet.

Diamond drilling:

Hole H30 - 823N	755.0 ft.
" H30 - 800S	927.0 "
" H30 - 751S	1,086.0 "
" H30 - 767N	1,145.0 "
" H30 - 650S	1,200.0 "
" H30 - 622N	91.2 "
Total to 2/25/60	5,204.2 ft.

R. D. Sample

Distribution:
OME(3)
USBM(2)
USBM(AD)
Docket
Sample

(This interim inspection report was written by RDS on 2/26/60 and typed on 3/1/60.)

MME FORM 6 REFERENCE SLIP

REV: 2-59 OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. 110	2/29	[illegible]
2. ~~Mr Murphy 500~~	3/1	[illegible]
3.		
4.		
5.		
FROM: 110	2-29	gad

FOR: Check items for action desired

____ Action ____ Reply for signature of ____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions ____ Your information

REMARKS:

INT.-DUP. SEC., WASH., D.C. M50943

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

FEB 29 1960

O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1960 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		25,646.40	25,646.40		25,646.40	25,646.40
~~Mucking~~ D.D. Stations		5,250.00	5,250.00		5250.00	5250.00
Crosscutting }	2,204.00	159,300.00	161,504.00	2204.00	159300.00	161504.00
Drifting }						
D. D. Incidentals		1,565.20	1,565.20		1565.20	1565.20
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber ing	578.55	34,547.10	35,125.65	578.55	34547.10	35125.65
Explosives						
Pipe						
~~Mck~~ Car Sidings	117.00	6,253.65	6,370.65	117.00	6253.65	6370.65
Rock Bolting		4,053.00	4,053.00		4053.00	4053.00
Core Boxes	57.80	652.80	710.60	57.80	652.80	710.60
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	33.00	677.00	710.00	33.00	677.00	710.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,990.35	237,945.15	240,935.50	2990.35	237945.15	240935.50

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Feb. 12, 1960 *Payee American Smelting and Refining Co.
Per J. C. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1495.17

Signature Dorothy F. Long
(Authorized Certifying Officer)
Date 7/27/60 Vou. No. 2342
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldak Title Mining Engr. Date Feb. 16, 1960

APPROVAL BY ~~DMEA~~ ONE EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ L. R. MacLaren Title acting alternate Exec. Officer Date Feb. 19, 1960

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1960 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting-Crosscutting	Foot	2,204.00	55.1	161,504.00	4037.6	40.00	12,485	40.00
Timbering	"	578.55	55.1	35,125.65	3345.3	10.50	3,950	10.50
Rock Bolting	Each			4,053.00	1158	3.50	4,000	3.50
Car Sidings	Foot	117.00	260	6,370.65	14,157	.45	14,800	.45
D.D.Stations	"			5,250.00	150	35.00	300	35.00
Drilling: Core AX or Lar.	"			25,645.40	3913	6.55		6.60
EX	"						11,855	6.40
Incid.	"			1,565.20	3913	.40		.40
Core Boxes	Each	57.80	17	710.60	209	3.40	290	3.40
Assaying	Det.	33.00	33	710.00	710	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		2,990.35		240,935.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2,990.35		240,935.50				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Feb. 12, 1960 Operator American Smelting and Refining Company

Per J. C. Kiesser Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Stephen W. Goldoke, Mining Engr.
Feb. 16, 1960

FEB 29 1960
O.M.E.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
February 15, 1960

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT -- JANUARY 1960

Advance for January in the 3070 East Page Drive was 55.1 feet, for a total under the OME contract of 3,371.4 feet. For this advance, the rock is predominantly purple argillite with minor purple argillaceous quartzite and quartzite. The bedding and minor bedding plane faults continue to parallel the drive and dip steeply south. Strong fracturing and several minor flat faults associated with the Exile fault continue to make heavy ground.

In DDH 30-650S, the rocks penetrated are purple argillite, argillaceous quartzite and quartzite of the St. Regis formation to 568.0 feet. From footage 568.0 to 966.0, the rock is predominantly light-grey quartzite. Significant faulting brecciation and shearing occur between footages 471.0 - 474.0, 533.0 - 545.0, 698.0 - 699.0, 807.0 - 825.6 and 844.5 - 870.6. No sulphide mineralization was encountered. Caving ground necessitated casing the hole and reducing to BX core at 966.0 feet.

Plate 1 is a plan showing the geology of the work in the 3070 East Page Drive and of the advance in DDH 30-650S, in January. Core logs for the footages drilled are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, geology of advance
in 3070 East Page Drive and in DDH 30-650S - - 1" = 50'

Core Logs, DDH 30-650S, 330' to 960'

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag	% Pb	% Zn	Na	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
330						335.0-337.0 arg ppl.		2.9/8.2	35	330			326.0-340.5. high fract core. little or no qge. few bdg flts.		
		NT	NT	0.2	45% 00										
335						337.0-341.0 arg lt apple grn grades to grey then ppl arg	336.0	3.6/6.0	60				340.0 bdg 85°		
340										340		85			
		NT	NT	NT	45% 01		340.0	4.2/6.0	70						
						341.0-353.0 arg ppl. up occ arenaceous sect. lt. ppl. local pronounced disc grey ribbons argillite. occ x bdg & alt fine & cse grnd beds grades to arg qtzite	348.0	3.5/4.6	76	350		70	350.0' bdg 70		
							352.6						361.0-362.0 high fract up occ qge		
							357.3	4.0/4.7	85				362.0-368.0 wk shearing @ 60° same dir. as bdg.		
								3.8/4.7	70	360		70	362.0 bdg 70°		
							362.0	3.9/5.9	66						
						353.0-427.0 arg qtzite lt. ppl up occ lt grey pplish qtzite & grey & lt green arg. strg sericite on fract.	367.8								
								3.2/4.9	65	370			382.0-383.0 wk fract slick 55°		
							372.8						385.0 bdg 70-75		
							377.2	3.7/4.4	84						
								3.6/5.2	69	380			387.0-390.0 wk shearing ll core (?)		
						dk ppl beyond 394.0 up wk calc fract.	382.4					55	390.0-394.0 shear zone in arg very strong sericitzn.		
								3.7/6.0	62						
							388.4					2	394.8 bdg 50°		
								3.3/5.9	56	390			395.0 3½" strg qge @ 62° ± 2" bx & shearing to 396.5		
							394.3					50			
								3.0/4.8	62			62			
							399.1			400					

TO ACCOMPANY MEMO
FEB 15 1960
By: [illegible]
Filed: [illegible]

ASSAY - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						411.0-427.0 alt lt-dk ppl. grades to qtzite.	399.1	4.0/4.9	82	400			402.0 ±12° wk shear zone (bdg)?						
							404.0	4.0/4.6	87			? 70	407.0 bdg 70°						
						427.0-469.0 qtzite lt ppl-lt grey w/ local arg qtzite & arg. occ. lt tan speck. occ smear py on bdg fault local diss py	408.6	3.4/3.9	87	410			412.0 6" wk shear on bdg 70°						
							412.5	4.4/4.7	94			70 67	415.0 bdg 67°						
							417.2	4.3/5.1	84	420			415.0-458.0 occ wk bdg flt						
							422.3	3.5/5.1	69				427.5-428.5 wk bx						
						469.0-479.0 qtzite & argillite dk ppl. grades to grey-ppl.	427.4	4.9/5.6	71	430		68	430.0 bdg 68						
							433.0	3.5/5.0	70										
							438.0	4.2/5.1	82	440									
							443.1	3.8/4.0	95										
							447.1	4.0/4.9	82	450			455.0 2" shear & bx 80°						
							452.0	4.0/5.0	80			80							
							457.0	3.5/5.0	70	460		68	460.0 bdg 68°						
							462.0	3.5/4.0	87				469.5-470.5 med random qge						
							466.0	4.0/4.0	100										
							470.0			470									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Vit.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						479.0 - 489.0 arg qtzite lt ppl. stng bleaching 487' 489'	470.0			470		40°	470 bdg 40°						
								4.6/5.0	92				471.0 - 472.0 mod stng. random qge						
							475.0					60-70	472.5 - 474.0 stng qge & bx, slicks @ 60-70						
								3.5/5.9	59										
							480.9			480		70	480.0 bdg 70°						
								4.9/5.1	78										
							486.0												
						489.0 - 510.0 qtzite dk ppl. loc slight arg. & csc qcn. grades to lt grey at 510.0 local x bdg		3.8/4.5	84				487.0 - 489.0 random qge w bx, slicks @ small angle to ll						
							490.5			490		72	498.0 6" shear zone slicks 50-80						
								3.9/5.0	78										
							495.5												
								4.5/4.8	94			80 50	492.0 bdg 72						
							500.3			500									
						510.0 - 561.0 qtzite lt. grey ppl'ish at begin sect. locally arg. & wk bleach local x bdg, ppl'ish at end of sect.		3.6/5.2	69										
							505.5												
								2.8/2.8	100										
							508.3												
								3.8/4.2	90	510									
							512.5						517.0 bdg 67°						
								3.9/4.8	81										
							517.3					67	527.0 bdg 50°						
								2.6/5.0	52	520			528.0 - 533.0 stng fract random stng qge & bx ± 6" qge 531.5						
							522.3												
								3.9/5.0	78										
							527.3					50							
								4.3/5.7	75	530			533.0 - 545.0 wk mod fract, wk bx & qge. 538.0 12" stng qge. 541.0 ± 4" stng qge						
							533.0												
								3.6/6.3	57										
							539.3			540			553.0 mod red ox slick 35°						

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
							539.3			540			552.5 - 555.0 mod fract w/ mod bx occ qge. stng qge @						
								3.6/6.2	58										
							545.5												
							547.4	1.2/1.9	63										
								4.1/5.1	80	550			coated						
							552.5					32	557.0 - 561.0 mod bx occ slicks // core irr qtz strs.						
								3.6/5.0	72										
							557.5												
						561.0 - 568.0 arg. dk ppl occ py coated fract		3.8/3.9	99	560		0	561.0 - 566.0 high fract. Fe ox coated. 6" stng shear @ 562.0						
							561.9					?							
								3.2/5.0	64				566.0 - 568.0 occ bdg flt						
							566.4												
								3.8/4.6	83			80	5800 bdg 80°						
						568.0 - 570.6 gtzite lt gry-grained - csg grnd. occ arg sect mod seretz's slight ppl-red sects due to Fe ox	571.0			570									
								4.0/4.2	95				587.0 - 593.0 broken core occ random slick						
							575.2												
								3.3/4.3	77				590.0 bdg 80°						
							579.5			580		80	593.0 - 598.0 wk bx occ random slicks						
								4.0/5.0	80										
							584.5												
								3.4/3.9	87										
							589.4												
								4.0/4.9	82	590		80							
							593.3												
								3.4/5.5	62										
							598.0												
								4.0/4.7	85	600			608.0 - 615.0 occ wk. qge. stng qge @ 608.0 - ±2", 613.5 - ±1" 613.5 - 615.0 mod bx						
							603.5												
								3.8/5.0	76										
							608.5					?							
										610									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
								4.1/5.5	74	610									
							614.0					?							
								3.7/5.1	72										
							619.1												
								3.2/4.4	73	620									
							623.5												
								3.4/4.6	74										
							628.1												
								2.9/2.3	100	630									
							631.0						628.0 - 632.0 mod						
								3.6/5.3	109				fract wk gge 630.0 &						
							634.3						631.0 fract @ 0°-30°						
								3.3/4.2	78										
							638.5												
								3.8/4.5	84	640		75 80							
							643.0						641.0 bdg 75°-80°						
								3.7/5.0	74										
							648.0												
								3.3/3.6	92	650			650.0 - 651.0 mod						
							651.6						random gge & bleaching						
								3.6/4.5	80										
							656.1												
								3.3/4.9	67										
							661.0			660									
								2.9/4.4	66										
							665.4												
								3.3/4.6	72										
							670.0			670									
								3.3/3.5	94				676.0 4"-5" gge & bx						
							673.5						small angle to core						
								3.7/5.0	74			?	678.0-679.0 random						
							678.5					?	mod gge // ?						
										680			680.0 bdg 70°						
												70							

ASSA. - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
								3.9/4.3	91	680			683.0 36" qge y 6'						
							682.8					?	stng fract. small						
						705.0 - 781.0		3.8/4.6	83				angle to core ?						
						rock delicately	687.4						698.0 bdg 85°						
						banded wk-med		3.8/4.6	83	690									
						alt somewhat	692.0						698.0 6" random qge &						
						sandy esp thru		4.0/5.0	80				6" bx lower contact						
						fract sects. occ							60°						
						delicate banding	697.0						705.0 bdg 80°						
						oc bdg beyond 781.0		3.7/4.5	82	700		?	705.0 - 714.7 high fract						
							701.5					50	occ wk qge & bx						
													720 ? bdg 70°						
								5.5/7.5	73			80	728.0 wk random						
													qge ≈ 8°						
							709.0			710									
								3.8/5.7	67										
							714.7												
								5.6/9.7	58	720									
							724.4												
								2.8/4.1	66										
							728.5												
730								2.6/4.0	65	730									
							732.5												
		NT	NT	NT	452 02			2.3/2.0	46										
735																			
		NT	NT	NT	452 03		737.5												
740								3.0/6.2	48	740									
		NT	NT	NT	452 04		743.7												
745								3.0/4.8	62										
							748.5												
										750		80	750.0 bdg 80°						

ASSAYS - SLUDGE		DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	DESCRIPTION	ASSAYS - CORE	
Intercept	WL	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%			VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
			748.5							
				3.8/5.2	73	750				
			753.7					753.0 - 754.5 mod random qge & occ bx		
				3.4/4.8	71					
			758.5							
				3.6/4.0	90	760				
			762.5							
				3.6/5.3	68			768.0 - 769.0 wk fract wk qge		
			767.8							
				6.0/6.3	95	770				
		781.0 qtzite becomes cse grd. & somewhat harder	774.1					774.0 bdg 70°		
				2.0/2.5	80		70 ?	776.5 wk qge		
			776.6							
				3.0/4.5	67			781.0 wk qge		
			781.1			780	?			
				2.8/4.3	65			785.4 - 8" mod qge & bx		
			785.4							
				3.5/5.1	69					
			790.5			790				
				2.5/4.0	62					
			794.5							
		815.0 - 827.0 stng bleach thru broken zone, rock somewhat sandy		3.9/4.5	87					
			799.0							
						800	75	800.0 bdg 75		
				5.2/7.1	68			807.0 - 809.0 mod bx wk qge		
			806.7					812.0 stng chl slick 80		
								813.0 stng chl slick 55		
				3.2/4.6	70	810		816.0 - 825.0 occ. mod bx, wk qge & stng chl. slicks		
			811.3				80			
				3.2/4.2	76		55			
			815.5				35	816.5 chl. slick 35		
				3.6/5.0	72			821.5 chl. slick 75° 35° to bdg.		
			820.5			820	75			

ASSAY - SLUDGE Intercept	Wt.	oz Ag	% Pb	% Zn	No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.
850						
		NT	NT	NT	452 05	
855						
		NT	NT	NT	452 06	
860						
		NT	NT	NT	452 07	867.0 - 869.0 arg grn. grey
865						841.0 - 870.6 med bleaching somewhat sndy
						870.6 - 888.0 arg & arg qtzite grey-green to ppl. w/ occ ppl. qtzite. stng serctn.
880						
		NT	NT	NT	452 08	
885						
		NT	NT	NT	452 09	
890						

RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	DESCRIPTION VEINS, MINERALIZATION, FAULTS
820.5			820		825.6 ± 6" qge @ ?
	3.6/4.9	73		75	
825.4 / 826.6	0.8/1.1	73		?	
	3.7/4.7	79	830		831.0 bdg 70°
831.2				70	
	3.8/4.8	79			836.0 stng chl slick 40°
836.0				40	
	3.2/5.0	64	840		841.0 few pieces white qtz
841.0					841.0 - 843.0 occ qge & bx 3" qgy bx @ 843.0
844.5	2.8/3.5	80			844.5 - 870.6 high fract w/ wk-med bx & occ qge.
848.5	2.7/4.0	68			
	3.7/5.1	73	850	50	852.0 stng chl slick 50°
853.6				35	853.0 ≈ 4" med bx slick @ 35°
	2.4/6.9	35			859.5 3" stng bx
860.5			860		865.0 med chl slick 65°
	3.2/5.0	69			867.0 +1" stng chl-serct slick @ 65
865.5				65	
	3.6/5.1	71		65	
870.6			870		870.6-888.0 occ wk bdg f/t bdg 80°
872.0	1.2/2.0	60			
	3.0/4.5	67			
877.1					
	4.0/5.9	68	880	80	
883.0					
	2.0/4.5	44			
887.5					
	2.4/4.5	53	890		
892.0					

ASSAYS - CORE Intercept	% Recov.				

ASSA. - SLUDGE Intercept	Wt.	Ag	Pb	Zn	No
955					
		NT	NT	0.5	452 10
960					

DESCRIPTION — LITHOLOGY, ALTERATION, MISC.

888.0 - 922.2 qtzite
lt grey fg.
csc qc where bleached
w/occ lt tan streaks
& spots. arg &
arg qtzite in last
5'. sharp contact
at 922.2

922.2 - 953.0 qtzite
ltgrey to white
fg. v.t. brittle.
mod. stng silfn.

953.0 - qtzite
& arg qtzite grn-gry
occ. stng silfn.

RECOVERY

Drill Run	Core	%
892.0		
	2.6/3.5	74
895.5		
	3.4/4.2	81
899.7		
	3.5/4.5	78
904.2		
	4.4/5.3	83
909.5		
	2.7/3.1	87
912.6		
	4.2/5.2	81
917.8		
	3.9/4.4	89
922.2		
	3.8/4.1	93
926.3		
	3.5/4.0	87
930.3		
	1.7/2.2	77
932.5		
	2.5/4.0	62
936.5		
	3.3/5.5	60
942.0		
	2.9/4.5	64
946.5		
	3.0/5.6	54
952.1		
	2.7/3.9	69
956.0		
	1.8/4.0	45
960.0		

FT. 890, 900, 910, 920, 930, 940, 950, 960

GRAPHIC LOG

X: 80, 85

DESCRIPTION — VEINS, MINERALIZATION, FAULTS

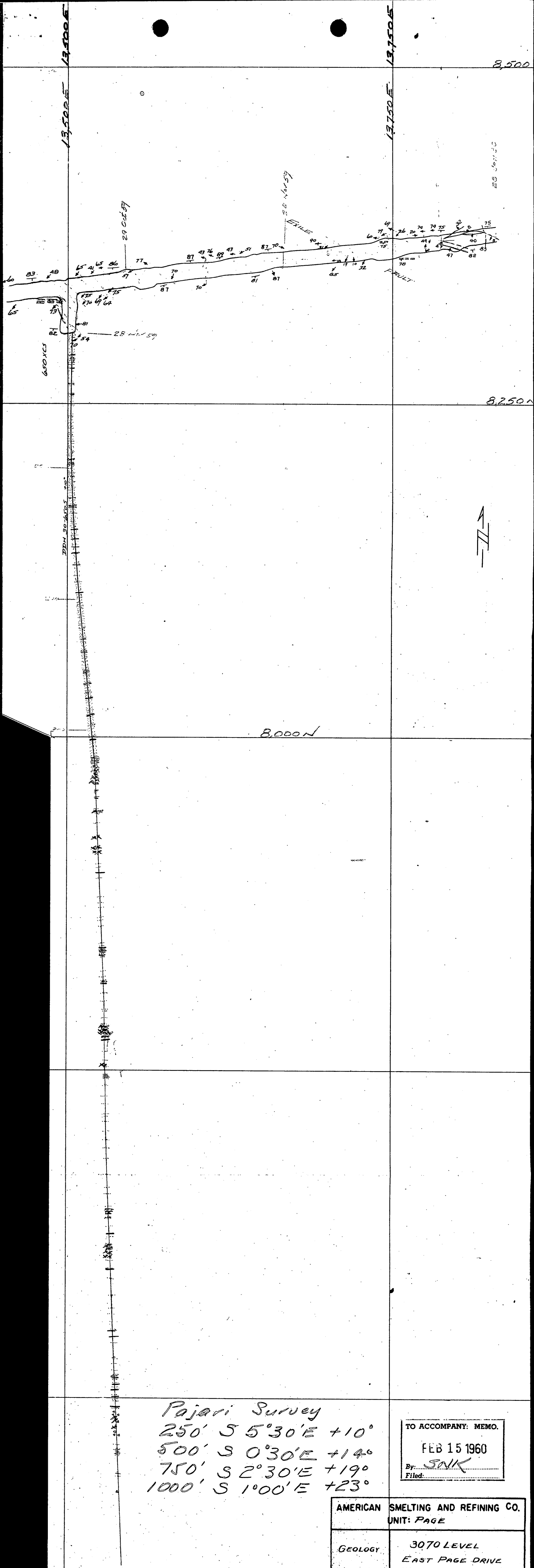
900.0 bdg 80-85
904.0 - 910.0 wk fract
w/ wk bx wk qge

922.2 - 953.0 core highly
fract no qge. occ
poorly def qtz veinlet
w/(sid)? bedg obscure

953.0 - occ.
frag. vein quartz-sid
960.0 ± 1" highly
fract qtz-sid

ASSAYS - CORE

Intercept	% Recov.



Pajari Survey
250' S 5°30'E +10°
500' S 0°30'E +14°
750' S 2°30'E +19°
1000' S 1°00'E +23°

TO ACCOMPANY: MEMO.
FEB 15 1960
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL EAST PAGE DRIVE			
Scale 1"=50	Drawn V.C.N.	Date 2/1/60	Approved	File No. N-150-P-182

MME FORM 6 PEFERENCE SLIP
REV. 2-59 OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1. 110	1/28	[illegible]
2. ~~Murphy~~ 700	2/1	[illegible]
3.		
4.		
5.		
FROM: 220	1-28	gad

FOR: Check items for action desired

____ Action ____ Reply for signature of _____
____ Approval ____ Investigate ____ Surname
____ Comment ____ Recommendations ____ Signature
____ Conference ____ Rewrite ____ File
____ Instructions ____ Your information

REMARKS:

INT.-DUP. SEC., WASH., D.C. M50943

EXTRA COPY
RECEIVED FEB 29 1960
O. M. E.
DATE INITIALS CODE

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

W

JAN 28 1960

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	7,167.60	18,478.80	25,646.40	7167.60	18,478.80	25646.40
~~Bundozing~~ D.D. Stations		5,250.00	5,250.00		5250.00	5250.00
Crosscutting } Drifting }	4,060.00	155,240.00	159,300.00	4060.00	155240.00	159300.00
D.D. Incidentals	434.40	1,130.80	1,565.20	434.40	1130.80	1565.20
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	1,065.75	33,481.35	34,547.10	1065.75	33481.35	34547.10
Explosives						
Pipe						
~~Track~~ Car Sidings		6,253.65	6,253.65		6253.65	6253.65
Rock Bolting		4,053.00	4,053.00		4053.00	4053.00
Core Boxes	102.00	550.80	652.80	102.00	550.80	652.80
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	51.00	626.00	677.00	51.00	626.00	677.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	12,880.75	225,064.40	237,945.15	12880.75	225064.40	237945.15

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Jan. 18, 1960 *Payee American Smelting and Refining Co.

Per J. C. Kiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 6440.37

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 1/22/60 Vou. No. 2340

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldok Title Mining Engr. Date 1-20-60

APPROVAL BY ~~DMEA~~ OMR EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Jan. 21, 1960

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

JAN 28 1960
O.M.E

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 140, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting ~~Crosscutting~~	Foot	4,060.00	101.5	159,300.00	3982.5	40.00	12,485	40.00
~~Crosscutting~~ Timbering	"	1,065.75	101.5	34,547.10	3290.2	10.50	3,950	10.50
~~Raising~~ Rock Bolting	Each			4,053.00	1158	3.50	4,000	3.50
~~Shafts~~ Car Sidings	Foot			6,253.65	13,897	.45	14,800	.45
~~Winzes~~ D.D.Stations	"			5,250.00	150	35.00	300	35.00
Drilling: Core AX or Lar.	"	7,167.60	1086	25,646.40	3913	6.55		6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"	434.40	1086	1,565.20	3913	.40		.40
~~Stripping~~ Core Boxes	Each	102.00	30	652.80	192	3.40	290	3.40
~~Trenching~~ Assaying	Det.	51.00	51	677.00	677	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		12,880.75		237,945.15				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		12,880.75		237,945.15				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Jan. 18, 1960 Operator American Smelting and Refining Company

Per J. C. Kinsor Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

1-20-60
/s/ Stephen W. Foldvik
Mining Engr.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
January 14, 1960

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT - DECEMBER 1959

Advance for December in the 3070 East Page Drive was 101.5 feet for a total under the CME contract of 3,716.3 feet. Early in the advance a strong fault zone was encountered, striking approximately N. 65° W. and dipping 19° to 32° SW. The main structure consists of up to 6 feet (horizontal width) of light-grey to brown gouge with associated strong faulting, fracturing and bleaching extending up to 15 feet into the hanging wall and 50 feet into the footwall. The rock in both walls of the fault remains predominantly purple argillite with the bedding paralleling the drive and dipping steeply south. The name "Exile" is applied to this structure.

DDH 30-751S advanced 230 feet to completion at 1,086 feet. DDH 30-650S was started at approximate east coordinate 13,500 and was advanced 323 feet during the period. The two holes bring the total diamond drilling for the project to 4,236 feet.

In DDH 30-751S, the rock is light-grey quartzite, which locally is strongly sericitized and contains sparsely disseminated pyrite. Significant faulting, which is probably the Spring fault zone, was encountered between footages 1,037.5 and 1,058.4. From footage 1,058.4 to the end of the hole, the rock remains light-grey quartzite with less sericitization than the preceding rocks. In DDH 30-650S, the hole penetrated predominantly dark-purple argillite and quartzite to 321.0 feet. Significant faulting and shearing was encountered between footages 61.5 and 93.5. Numerous calcite blebs and thin fracture fillings along with weak to moderate silicification were encountered between footages 294.0 and 321.5.

Plate 1 is a plan showing the geology of the work in the 3070 East Page Drive in December and of the advance in DDH 30-650S. Plate 2 is a plan showing geology of the advance in DDH 30-751S. Core logs for the footages drilled are also attached.

Respectfully submitted,

Original Signed by

S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, geology of advance in 3070 East Page Drive and in DDH 30-650S - - 1" = 50'
Plate 2 - Plan, geology of advance in DDH 30-751S - - 1" = 50'
Core logs, DDH 30-751S, 890' to 1,086'
Core logs, DDH 30-650S, 0' to 330'

ASSAYS - SLUDGE		DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov

Lithology, alteration, misc.

890.8 - 892.0 arg. lt green

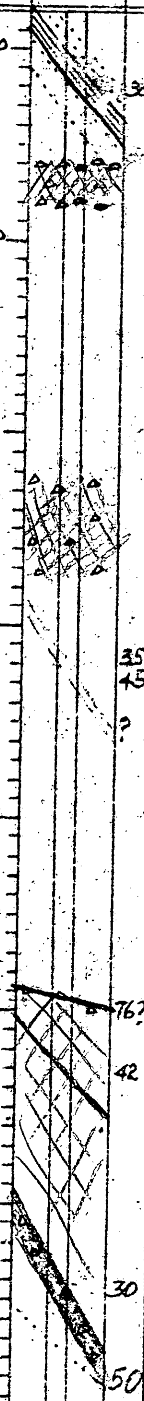
892.0 - 1086.0 qtzite lt grey to white loc. lt grn sericite on fract. mod silfn & bleaching in fract sects. loc slight greenish & arg. (due to serctzn ?) wk diss xtln py. (Note variations below)

930.0 ±6" arg. lt. green

Recovery

Drill Run	Core	%
895.7	4.2/4.9	86
900.7	4.3/5.0	86
903.8	2.3/3.1	74
909.9	3.7/6.1	61
914.4	3.0/4.5	67
917.7	2.1/3.3	64
922.1	3.4/4.4	77
924.5	2.0/2.4	83
926.9	1.3/2.4	54
931.6	3.1/4.7	66
936.0	3.7/4.4	84
939.5	2.0/3.5	57
944.7	3.5/5.2	67
949.6	3.2/4.9	65
954.8	3.5/5.2	67
959.9	4.2/5.1	82

FT.: 890, 900, 910, 920, 930, 940, 950, 960



Veins, mineralization, faults

892.0 mod flt @ 38° arg-qtzite cnt.

896.0 & 898.0 mod breccias serct cement, wk bx between.

912.0 - 917.7 high fract core w/ mod bxn 917.0 - 917.7

922.0 bdg ? 35-45

939.5 - 954.8 wk fract core

939.5 ±6" of qqe, bleaching bx & wk silfn. @ 76°?

943.5 chl. slick wk qqe @ 42°

953.5 12" qqe & bx ± 30°

957.0 bdg 50°

962.5 ±4" gritty qqe @ 90°?

964.0 bdg 55°

TO ACCOMPANY: MEMO.
JAN 14 1960
By: JRK
Filed:

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
							959.9								
								2.7	73	960					
							963.6	3.7				90?			
												55			
								3.0	63						
							968.4	4.8							
								2.9	67	970					
							972.4	4.3				85	972.0 several ppl-red smeared slicks 85°		
						stng serctzn. greenish & slight softer rock beyond 970.0' abundant ppl. blotches (ox py) occ 1/16" qtz veinlets		4.0	91						
							977.1	4.4							
								4.3	79	980			980.0-982.0 mod bx & stng serctzn.		
							982.4	5.3							
								2.7	60			0	982.0-982.5 scatt qge		
							986.9	4.5					982.5-986.0 mod flt @ 0° chl & py on slick, some diss py.		
								4.5	88						
								5.1		990					
							992.0						986.0-986.5 scatt qge		
								4.0	68						
								5.9					999.0 bdg 75°		
							997.9								
								3.5	100			75			
										1000			1002.0 bdg 85°		
							1001.4	3.5							
								3.3	87			85			
1005							1005.2	3.8					1004.0-1005.0 wk bx bdg shear		
		0.5	NT	NT	451 82			2.9	78			70	1007.0 wk slick 70°		
							1008.9	3.7							
1010								1.5	33	1010			1010.5 bdg 70°		
								4.0				70			
		NT	NT	NT	451 83		1012.9						1015.0 black chl. slick 85		
1015													1017.0 10"-12" wk scattqge		
								3.6	77			85			
							1017.6	4.7							
								3.7	88	1020			1022.0-1027.0 high fract core w/occ chl & serct slicks 50° @ 1025.0'		
							1021.8	4.2							
								3.0	64						
							1026.5	4.7				50	1031.0-1032.0 broken zone serctzn slicks 40-60°		
								2.5	78						
							1029.7	3.2							
								1.5	68	1030					
							1031.9	2.2							

DDH 30-7515

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag	% Pb	% Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
										1030					
							1031.9					40			
								2.8/2.9	97			60	1037.5 - 1038.5 mod bx		
1035							1034.8						w/ black chl slicks		
													≈85-90°		
		NT	NT	NT	451 84			3.8/4.1	93						
												85	1038.5 - 1058.4 high fract		
							1038.9						somewhat qqq.zy		
1040								1.6/4.0	40	1040			sparse Fe ox stain at qtz		
		NT	NT	NT	451 85	1058.0 qtzd									
						change green to	1042.9						1051.0 bdg 60° opp prom fract		
						grey qtzite (less		2.0/3.0	67						
1045						sericitic)	1045.9						1052.0 ± 2" lt grey qqc		
								3.4/5.9	58						
1050										1050			1057.5 ± 1" gray qqc		
		NT	NT	NT	451 86		1051.8					60			
1055								3.2/6.6	48						
		NT	NT	NT	451 87		1058.4								
1060								2.3/2.2	100						
							1060.6			1060					
								2.8/4.0	70				1064.6 ± 1" gritty gray qqc		
							1064.6								
								4.7/5.0	94				1071.2 cave begin run		
													1072.0 bdg 60-65°		
							1069.6								
								1.6/1.6	100						
							1071.2			1070					
												60-65			
								3.5/3.7	95				1077.0 wk qqc @ 60°		
							1074.9						bdg ?		
								3.9/4.4	89			60	1079.3 cave (may be		
							1079.3						fault) begin run		
								1.6/1.7	94						
							1081.0			1080			1080.0 bdg 55°		
								3.1/5.0	62						
							1086.0						END OF HOLE		

DDH30-7515

PAJARI 250' S5½E +10°

American Smelting and Refining Company Sheet 1 of

DIAMOND DRILL HOLE LOG

Property: PAGE
Location: 3070 East Page Drive
Coord.-Collar E 13,504 N 8302
Elev.-Collar: 397'
Date-Started: 12/19/59
Completed:

Hole No. 30-650S
Bearing: South - See survey
Inclination: Flat - See survey
Length:
Core Size:
Logged by: SHH

ASSAYS - SLUDGE: Intercept	Wt.	oz Ag	% Pb	% Zn	No.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	<	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
						0-10' NS									
								9.2							
						0-76.0 arg									
						arg gtzite & gtzite									
						dk gpln occ disc qtz ribs		3.1		10			15.0 bdg 85-90		
						arg lac stag sericite							17.0-23.0 mod fract		
						to 29' occ lt tan	13.5	1.0	100				w occ wk qge		
						calc seats. ice	14.5 / 15.7	1.2	100			85 90			
						but ll bdg.	17.2	1.5	93						
							19.2	2.0	100						
								3.4 / 4.1	83	20					
							23.3						25.0 bdg. 85°		
								4.0 / 4.7	85			85			
							28.0								
													29.0-50.0 mod fract		
								3.8 / 6.5	58	30			thin qge along arg		
													bdg @ 34.0 & 46.5		
							34.5						num bdg flts in remainder.		
35															
		NT	NT	NT	451 88		38.6	2.9 / 4.1	71						
40								1.8 / 3.9	46	40					
		NT	NT	NT	451 89		42.5								
45								2.0 / 4.5	44						
							47.0								
		NT	NT	NT	451 90			2.5 / 5.0	50	50					
50							52.0								

TO ACCOMPANY MEMO. JAN 14 1960 By: SNK Filed:

DDH 30-650S

ASSAYS - SLUDGE Intercept	Wt.	oz Ag	% Pb	% Zn	No	DESCRIPTION LITHOLOGY, ALTERATION, MISC.
50						
		NT	NT	NT	451 91	ppl qtzite pred beyond 50'
55						
70						76.0 - 93.5 qtzite lt grey csc gr.
		NT	NT	NT	451 92	
75						93.5 - 100.5 qtzite dk ppl. w/ 25% arg & arg qtzite ppl-grey
		NT	NT	NT	451 93	
80						
		NT	NT	NT	451 94	
85						
		TR	NT	NT	451 95	
90						
		NT	NT	NT	451 96	
95						
						100.5 - 123.5 qtzite lt grey slightly sandy along fract occ xtln specks py

RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∠	DESCRIPTION VEINS, MINERALIZATION, FAULTS
52.0			50			
	4.7/5.5	82				
57.5						
	3.8/4.6	83	60			61.5 stng bed flt 85°
62.1					85	62.0 ±4" gritty qge 65°?
					65?	62.0 - 69.0 wk-mod fract w/ faulting, slicks 65°-90° & FeOx coated
	4.4/7.9	56			65 90	
70.0			70		70?	69.0 6" poorly cemented breccia 70°?
	1.4/6.0	23				±75' 6" gritty qge
76.0					?	76.0 - 76.5 occ. qge
				XXXXX		81.0 ±2" arg qge @ 70°
	3.9/7.5	52	80		70	81.0 - 83.0 num slicks 5°-15° w/ FeOx
85.5					80	83.0 several mod flts w/ FeOx w/ wk sericitic qge @ 80°
	2.5/5.5	45			65 90	83.0 - 93.5 numerous slicks, occ qge slicks 65-90° FeOx coated
89.0			90			
	23/5.0	46				
94.0						
	4.1/4.9	84			75	97.0 bdg 75°
98.9			100			
	4.6/4.6	100				106.0 ±8" mod fract slicks @ 65° & ∥ to core
103.5						
	4.5/5.3	85			0 65	
108.8			110			115.0 bdg 80°
	4.7/5.1	92				117.0 wk qge @ 80° bdg
113.9						
	4.1/4.9	80			80	
118.8					80	
			120			

ASSAYS - CORE Intercept	% Recov.				

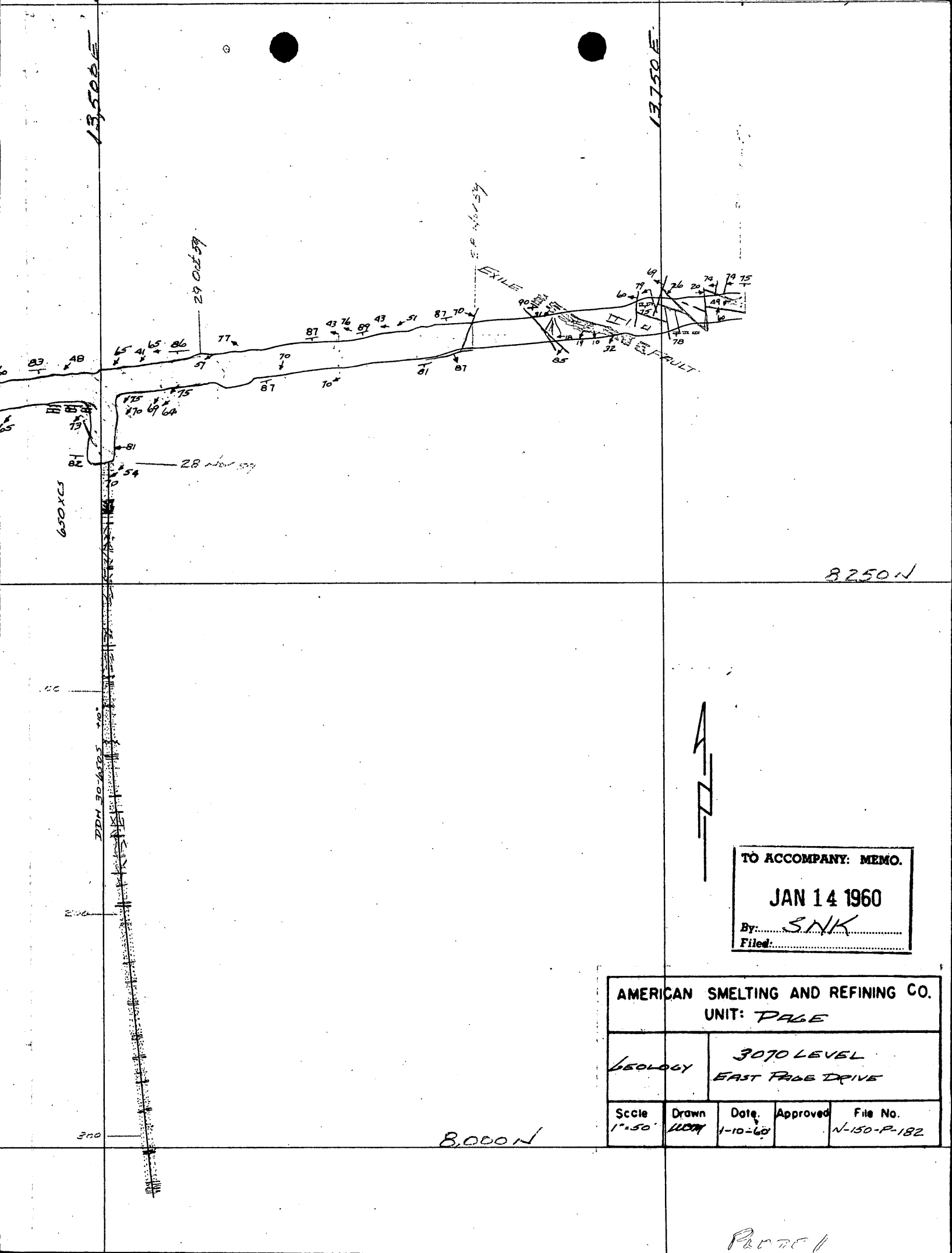
ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						123.5 - 132.0 arg qtzite lt grey wk alt & slight sandy		4.3/5.2	83	120			122.0 - 123.5 wk flts ∥ & @ 50° chl-FeOx coated						
							124.0					50							
												0	126.0 bdg & mod bdg flt @ 80°						
								3.9/5.0	78			80							
							129.0												
								4.1/5.3	77	130		65	130.0 bdg 65° gentle folding						
						132.0 - 142.0 qtzite arg qtzite & arg dk ppl w/ disc grey ribs grey arg.	134.3												
								4.5/4.8	94				139.0 mod fract w/ wk qge & red FeOx stain						
							139.1					7							
								4.5/5.2	87	140		45	141.0 wk flt 45°						
						142.0 - 167.0 qtzite dk ppl to 149 then ppl grading to dk ppl again at 167'							143.0 bdg 70°						
							144.3					70							
								4.0/4.4	91										
							148.7						150.0 bdg 75°						
								4.2/4.3	98	150		75	153.0 - 181.0 occ wk slick						
							153.0												
								3.9/5.0	78				158.0 ±2" white alt & sandy rock						
							158.0												
								3.6/4.5	80	160									
						162.0 - 321.0 pred. qtzite w/ arg & arg qtzite dk ppl w/ grey disc ribs arg. several 2" beds apple grn arg occ. diss pyrite fresh to compl ox. red bands & blotches in ox sects	162.5												
								4.3/4.3	100										
							166.8												
								4.2/5.4	74	170			170.0 ±2" white alt sandy rock						
													175.0 mod bdg flt 80°						
							175.5												
								3.7/3.8	99			80							
							176.3												
								4.3/5.2	87	180									
						See Notes below	181.5					32	182.0 ±1" qge @ 32°						
								4.0/4.8	83										
							186.3					75	185.0 bdg 75						
								3.6/3.7	97			80	187.0 bdg 80 w/ stng bdg flt, in arg						
							190.0			190									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS -- CORE	
Intercept	Wt.	oz Ag	% Pb	% Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
							190.0			190					
								3.3/5.2	63				195.5 ½" qtz-calcite-sid str @ 32°		
							195.2					32			
								3.6/4.8	75				196.0 ±6" rock bx well cemented		
							200.0			200					
								3.5/4.7	74				204.5 ½" qqe on bdg (arg) 70°		
							204.7					70			
								3.4/5.1	67						
							209.8			210					
								3.5/4.9	71				213.5 bdg 75°		
							214.7					75			
						228.6 - 12" dk ppl. arg.	218.5	3.5/6.8	92						
								3.3/5.0	76	220			225.0 bdg 80°		
						234.0-242.0 pred dk ppl arg w/ arg stritet & arg pred beyond 242.0 ≈ 95% each. numerous thin disc ribs. grey ppl arg.	223.5								
								3.8/5.0	76			80			
							228.5								
								3.8/5.0	56	230			232.0 random qqe wk.		
							233.5								
								2.7/5.0	54						
							238.5								
								3.7/5.5	67	240			242.0 bdg 75		
												75			
							244.0								
								3.2/4.0	80						
							248.0								
250								3.0/5.2	60	250					
		NT	NT	NT	451 97										
							253.2								
255								2.0/4.1	49						
		NT	NT	NT	451 98.		257.3								
260										260					

DDH 30-650S

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Rpm	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
							262.7	3.6/5.4	67	260			265.0 bdg 80°						
							267.2	2.6/4.5	58			80							
							272.1	3.0/4.9	61	270									
							276.1	3.3/4.0	82				277.0 bdg 70°						
							280.0	3.5/3.9	90	280		70	Note: occ wk bdg flts (partings?) thru core in this sect.						
							285.0	3.6/5.0	72				289.5 ± 3" stng silfn w/ ¼" xtls py.						
							290.0	3.5/5.0	70	290									
						294.0 - 321.5 numerous irr. blebs calcite & calc tan streaks & blebs w/ wk to mod silfn.	294.5	3.2/4.5	71										
							298.6	3.6/4.1	88	300									
							303.3	3.9/4.7	83				308.0-309.0 high fract w/ random qqe.						
							308.5	4.0/5.2	77										
						321.0 - 335.0? arg lt. apple grn wk silfn		3.2/4.6	70	310			312.0 bdg 75°						
							313.1					75	315.0 bdg 75° 320.0 ± ½ qqe bdg						
						328.0 12" arg qtzite ppl. sandy.	317.8	3.4/4.7	72			75							
							323.0	4.0/5.2	77	320		75 / 70	321.0 stng sericitic silfn w/ intense folding at contact.						
325							327.7	3.2/4.7	68				321.5 bdg=70°						
330										330									

ODH 30-6505



TO ACCOMPANY: MEMO.

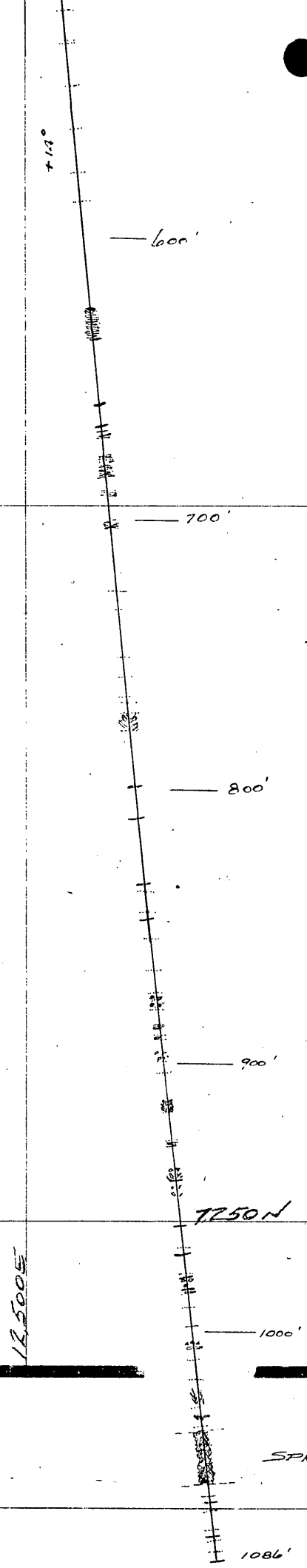
JAN 14 1960

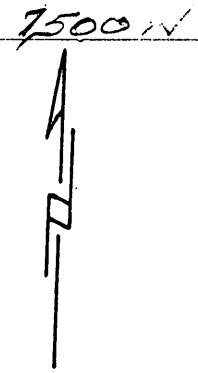
By: SNK

Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL EAST PAGE DRIVE			
Scale 1"=50'	Drawn	Date 1-10-60	Approved	File No. N-150-P-182

PAGE 1





AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL DDH. 30-7515			
Scale 1" = 50'	Drawn WCM	Date 1-18-60	Approved	File No. N-150-P-168

TO ACCOMPANY: MEMO.

JAN 14 1960

By: SNK

Filed:

PLATE 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1201 N. Division St.
Spokane 2, Washington

January 12, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 21 1960

DATE	INITIALS	CODE
1-21	gad	220
"	JKG	110
1/21	EWJ	800
~~1-21~~	~~[illegible]~~	~~[illegible]~~

MEMORANDUM

To: OME Field Team, Region I

From: S. W. Zoldok, Mining Engineer, Bureau of Mines

Subject: Interim inspection report, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The project was inspected on December 22, 1959, accompanied by Mr. Troy Tower, superintendent, and J. N. Butler, Jr., engineer. The previous inspection was made on October 1, 1959, by R. D. Sample, geologist, U. S. Geological Survey.

The 3070 level east drive is still in thin bedded purple argillite and argillaceous quartzite. The bedding dips steeply to the south, and the drift requires timbering to within 5 to 8 feet of the face.

A strong fault striking N. 70° W. and dipping about 30° to the south was intercepted at 1026 feet east of station No. 1616 or 3648 feet from the I.P. of the contract. The fault consists of 3 feet of gouge on the hanging wall and about 45 feet of intensely brecciated material in the footwall. The entire distance through the fault was spiled. The Operator believes there is a possibility that this might be the Cate fault.

The exploration is being done on 2 shifts per day and 5 days per week. No significant mineralization has been disclosed to date.

Contract Measurements (3070 DE)

Drifting:

Previously reported to Sta. No. 1616	2,621.82 ft.
Sta. No. 1616 to Temp. Sta. 1-1	172.5 "
T.S. 1-1 to T.S. 1-2	155.6 "
" 1-2 to " 1-3	127.0 "
" 1-3 to " 1-4	126.2 "
" 1-4 to " 1-5	116.7 "
" 1-5 to " 1-6	182.2 "
" 1-6 to " 1-7	115.8 "
Total to Temporary Station 1-7	3,617.82 "
T.S. 1-7 to face	93.00 "
Total drifting to December 22, 1959	3,710.82 ft.

Timbering:

Previously reported to Sta. No. 1616 + 4.27 ft. =		2,101.03 ft.
Total to Sta. 1616	2096.76 ft.	
Sta. 1616 to T.S. 1-1	172.50 "	
T.S. 1-1 to T.S. 1-2	155.60 "	
" 1-2 to " 1-3	127.00 "	
" 1-3 to " 1-4	126.20 "	
" 1-4 to " 1-5	116.70 "	
" 1-5 to " 1-6	182.20 "	
" 1-6 to " 1-7	115.80	
Total to T.S. 1-7	3092.76 ft.	
T.S. 1-7 to end of timber	85.00 "	
Total timber to Dec. 22, 1959	3177.76 ft.	

714 XCN (No. 1 XCN) (Coordinate 12,880 E)

This crosscut has been advanced 234.7 feet to the north. The first 64.5 feet is timbered, as previously reported, and the balance of 170.2 feet is rock bolted.

	Crosscutting	Timber	Rock Bolts
I.P. to 64.5'	64.5'	64.5'	-
64.5' to 234.7'	170.2'	-	258
Total to 12-22-59	234.7 ft.	64.5 ft.	258 1/

1/ There are 34 five-foot sections in 170.2 feet and maximum allowable bolts are 34 x 7 = 238. If necessary, an adjustment of 20 bolts will be made as the crosscut is advanced.

706 XCS (No. 1 XCS)

As previously reported the crosscut remains at 31.5 feet with the first 29.5 feet timbered.

Car siding excavations:

Previously reported	13,898 cu. ft.
At T.S. 1-2 + 111 ft.	260 " "
At T.S. 1-4 + 60 ft.	260 " "
At T.S. 1-5 + 160 ft.	260 " "
Total to 12-22-59	14,678 cu. ft.

Diamond drill stations:

800 XCS	- 25 ft.	767 XCN	- 25 ft.
823 XCN	- 25 ft.	650 XCS	- 25 ft.
751 XCS	- 25 ft.	662 XCN	- 25 ft.

Total to 12-22-59 - 150 ft.

Diamond drilling:

Hole H30 - 823N	755 ft.
" H30 - 800S	927 "
" H30 - 751S	1086 "
" H30 - 767N	1145 "
" H30 - 650S	17 "
Total to 12-22-59	3930 ft.

Status of contract:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 225,064.04 (thru Nov. 1959)

	Authorized	Completed
Drifting and/or crosscutting (3070 DE - 3710.82 ft.) (714 XCN - 234.70 ft.) (706 XCS - 31.50 ft.)	12,485 ft.	3,977.02 ft.
Diamond drill stations	300 ft.	150 ft.
Core drilling	11,855 ft.	3,930 ft.
Car siding excavations	14,800 cu.ft.	14,678 cu. ft.
Timbering (3070 DE - 3177.76) (714 XCN - 64.5) (706 XCS - 29.5)	3,950 ft.	3,271.76 ft.
Rock bolts (3070 DE - 872) (714XCN - 258)	4,000	1,130

S. W. Zoldok

S. W. Zoldok

Distribution:
OME (3)
USGS (2)
USBM (AD)
Docket
Zoldok

MME FORM 6
REV. 2-59

REFERENCE SLIP
OFFICE OF MINERALS EXPLORATION

TO:		DATE	INITIALS
1.	110	12/28	JG
2.	~~500 Murphy~~	12/29	[illegible]
3.			
4.			
5.			
FROM:			

FOR: Check items for action desired

____ Action ____ Reply for signature of _____
____ Approval ____ Investigate ____ Surname
____ Comment ____ Recommendations ____ Signature
____ Conference ____ Rewrite ____ File
____ Instructions ____ Your information

REMARKS:

M50943

INT.-DUP. SEC., WASH., D.C.

Form MF-104 (Rev.)
(April 1952)

DEC 28 1959
O.M.E.

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 140, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		18,478.80	18,478.80	303.46	18,175.34	18,478.80
D.D. Stations	469.00	4,781.00	5,250.00	469.00	4781.00	5250.00
Crosscutting	4,740.00	150,500.00	155,240.00	4740.00	150500.00	155500.00
Drifting						
D.D. Incidentals		1,130.80	1,130.80	-	1130.80	1130.80
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	1,379.70	32,101.65	33,481.35	1379.70	32101.65	33481.35
Explosives						
Pipe						
Car Sidings	117.00	6,136.65	6,253.65	117.00	6136.65	6253.65
Rock Bolting		4,053.00	4,053.00		4053.00	4053.00
Core Boxes	78.20	472.60	550.80	78.20	472.00	550.80
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	6.00	620.00	626.00	6.00	620.00	626.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	6,789.90	218,274.50	225,064.40	7093.36	217,971.04	225064.40

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Dec. 16, 1959 *Payee American Smelting and Refining Co.

Per J. L. Kinsor Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3544.68

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 12/22/59 Vou. No. 2328
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldak Title Mining Engr. Date 12-18-59

APPROVAL BY ~~DMEA~~ ONE EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Dec. 18, 1959

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 195 9 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting-Crosscutting	Foot	4,740.00	118.5	155,240.00	3881	40.00	12,485	40.00
Timbering	"	1,379.70	131.4	33,401.35	3188.7	10.50	3,950	10.50
Rock Bolting	Each			4,053.00	1158	3.50	4,000	3.50
Car Sidings	Foot	117.00	260	6,253.65	13,897	.45	14,800	.45
D.D.Stations	"	469.00	13.4*	5,250.00	150	35.00	300	35.00
Drilling: Core AX or larg.	"			18,478.60	2827			6.60
EX	"						11,855	6.40
Incid.	"			1,130.80	2827	.40		.40
Core Boxes	Each	78.20	23	550.80	162	3.40	290	3.40
Assaying	Det.	6.00	6	626.00	626	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		6,789.90		225,064.40				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		6,789.90		225,064.40				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Dec. 16, 1959 Operator American Smelting and Refining Company

Per J. C. Kieser Title Manager

REMARKS:
* 650 S 21.0 feet advance
13.4 feet allowable

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

12-18-59
Stephen W. Zoldok, Mining Engr.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
December 15, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT - NOVEMBER 1959

In the 3070 East Page Drive, advance in November was 131.4 feet for a total under the OME contract of 3,614.8 feet. Advance in 650 Crosscut South, a diamond drill station, was 21.0 feet, to completion at 32.6 feet. In the drive and crosscut, the rock is predominantly thin-bedded purple argillite with some interbedded purplish argillaceous quartzite. Irregular and discontinuous bleaching, sub-parallel to the bedding, is exposed late in the advance. The bedding and numerous strong bedding faults parallel the drive and dip steeply south. Heavy ground was encountered throughout the advance.

DDH 30-751S advanced 356.0 feet to footage 856.0, bringing total diamond drilling for the project to 3,683.0 feet. The rock is predominantly light-grey quartzite which locally is strongly bleached. Several 1/4- to 3/4-inch quartz and quartz-siderite stringers were encountered between footages 653.0 and 678.5, followed by gentle folding and faulting to 695.0 feet. Significant faulting was encountered from 745.0 feet to the last core logged at 776.0 feet. The increased flow of water along with the loss of sludge necessitated casing and reducing to BX size core at about 850 feet.

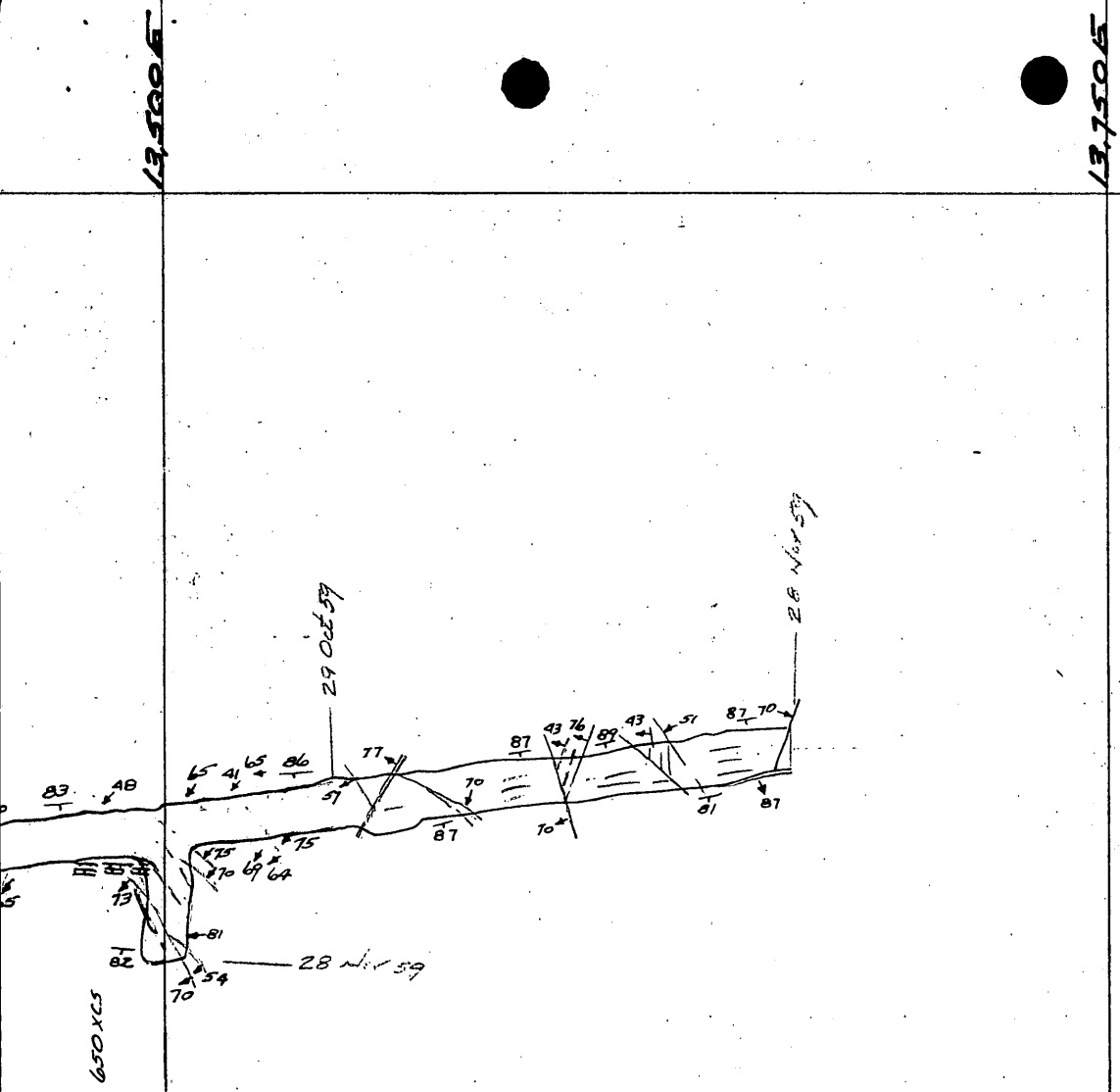
Plate 1 is a plan showing the geology of the work in the 3070 East Page Drive in November, and Plate 2 is a plan of DDH 30-751S. Core logs for footage 540 to 890 in DDH 30-751S also are attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN
S. NORMAN KESTEN

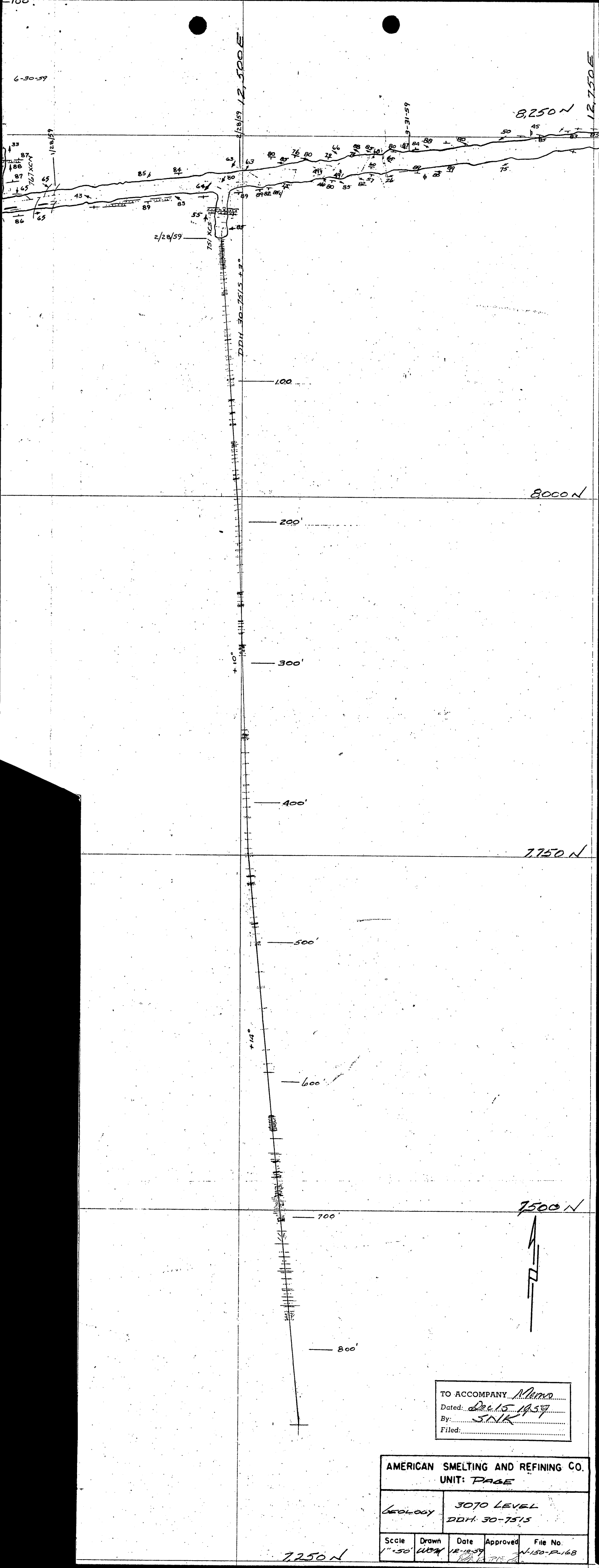
Attachments:

Plate 1 - Plan, geology of advance in East Page Drive - 1" = 50'
Plate 2 - Plan, geology of advance in DDH 30-751S - - 1" = 50'
Core logs, DDH 30-751S, 540' to 890'



TO ACCOMPANY Memo
Dated: Dec 15 1959
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL EAST PAGE DRIVE			
Scale 1"=50'	Drawn WDM	Date 12-10-59	Approved	File No. N-150-P-182


6-30-59
12,500 E
12,750 E
8,250 N
8000 N
7750 N
7500 N
7250 N
1/28/59
2/28/59
3-31-59
767 XCS
751 XCS
DDH 30-7515 +3°
+10°
+14°
100
200'
300'
400'
500'
600'
700'
800'
TO ACCOMPANY Memo
Dated: Dec 15 1959
By: SNK
Filed:
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL
DDH. 30-7515
Scale 1" = 50'
Drawn WCM
Date 12-10-59
Approved
File No. N-150-P-168

ASSAYS - SLUDGE		DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
			541.3			540					
				4.2/4.6	91				544.0 crossbedg or		
		545.0-547.0 arg	545.9						serat^l fract. marked		
		lt grey green		4.3/4.7	91				by tan hairlike layers		
			550.6			550		65	550.0 bdg 65°		
				3.7/3.5	94						
			554.1								
				5.8/5.1	75						
			559.2								
		562.0 loc				560					
		delicate tan		4.3/4.7	91						
		bandson bdg	563.9								
		loc mod silfd		4.7/5.0	94						
		& cse grd.	568.9								
						570		65	570.0 bdg 65°		
				4.3/4.7	96						
			573.6								
				3.4/4.2	81	+1.6					
			577.8								
				4/4.8	85						
						580					
			582.6						583.0 bdg 65°		
								65			
				3.9/4.3	91						
			586.9								
				3.3/4.4	75						
						590					
			591.3								
									593.0 wk flt 30°		
				4.5/4.9	92			30	severed other random		
			596.2						fract.		
									598.0 bdg 63°		
				3.7/4.3	86			63			
		601.0-602.0	600.5			600					
		intense bleaching		4.2/4.6	91				606.0 bdg 65°		
		rock sandy, white	605.1								
		occ speck xtln		4.3/4.8	90						
		py either side.						65			
			609.9			610					

TO ACCOMPANY Memo
Dated: Dec 15 1959
By: SRK
Filed:

DDH 30-7515

ASSAYS Intercept	ASSAYS WL	SLUDGE	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	RECOVERY Core	RECOVERY %	FT.	GRAPHIC LOG	∠	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS Intercept	ASSAYS % Recov.
			602.0 & 637.0 local intense bleaching (white sandy zones // bdg) 634.0 - 637.0 same as above	609.9			610					
					4.3/4.7	75				616.0 bdg 65°		
				614.6								
					4.3/4.3	100			65			
				618.9						624.0 bdg 70°		
					3.8/5.0	76	620			624.0 - 633.0 numerous very wk bed'g slips in arg		
			624.0 - 633.0 numerous thin arg beds (green)	623.9					70			
					3.7/4.2	88						
				628.1								
					4.2/4.8	87	630			638.0 wk slips @ 40 & 45° several slicks below at random.		
			637.0 - 672.0 qtzite & arg qtz ≈ 50% of rock is bleached qtzite & 50% grey qtzite, greengrey arg & arg qtzite occ speck x'tln py	632.9								
					3.6/4.4	82						
				637.3					40	640.0 bdg 65°		
					4.3/5.2	83	640		45 65	645.0 2" bx slick @ 42° broken to 645.5		
				642.6								
					3.5/4.8	73						
									42	645.5 ± 1" bx		
				647.3						652.0 wk slip 38° opp bdg		
					4.1/4.7	94	650					
				652.0						653.0 ½" qtz & sid.		
					4.0/4.6	89			38 ?			
									65	655.0 bdg 65°		
				656.6								
					4.0/4.6	87			? 80	657.0 ½" qtz (sid)? 658.0 ½" qtz 80°		
				661.1			660					
			672.0 - 705.0 arg & arg qtzite lt grn to grey, quartzitic sects bleached & sandy. occ. speck x'tln py & thin < 1/8" qtz stn. grad change at 705.0		3.9/4.7	83				666.0 ½-¾" qtz 45°		
				665.8					60	665.0 bdg 60		
					3.5/3.7	95			45 55	668.0 bdg 55		
				669.5			670			672.0-682.0 occ bdg fault		
					3.4/5.4	63						
				674.9						674.5 ± ½" qtz str 65°		
					4.0/4.5	89			65			
										678.5 ¾" qtz 52° local folding		
				679.4			680		52			

DDH 30-7515

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG.	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						705.0 - 776.0 gtzite & arg gtzite lt grey w/ occ. sandy bleach sects & numerous tan specks local arg 1/16" ribbons to 3-4" thick. fract red-ppl stained. grads to lt grey gtzite @± 766.0'	679.4			680			682.0 - 692.0 wk to mod shear.						
								3.3/5.2	63										
							684.6					68	684.0 bdg 68						
								3.0/4.1	73				692.0 - 697.0 mod - strong shear, bx & occ qge.						
							688.7												
								2.6/4.2	62	690			694.0 slicks 30° & 60°						
							692.9					65	695.0 2" gritty qge fract. pred. 65° opp bdg.						
								4.3/5.1	88			60							
							698.0					30							
								3.1/3.6	86	700			705.0 bdg 55° local gentle folds.						
							701.6												
								3.3/4.5	73										
							706.1												
								3.8/4.8	79			55	713.5 1/2" qtz (sid?) @ 80°						
							710.9			710									
								3.2/4.0	80				711.0 - 756.0 occ wk-mod slicks w/ occ qge						
							714.9					30° 80°							
								3.0/3.9	77				711.0 - 30°						
							718.8						720.0 - 45°						
								3.8/4.4	86	720			729.5 - 55						
							723.2					45°	735.8 - 50° & 11						
													738.0 - 70°						
								3.5/3.7	95				740.5 15°						
							726.9												
								3.7/4.8	77	730		55	713.0 - 775.9 bdg. obs.						
							731.7												
								3.2/4.1	78										
							735.8												
								4.0/4.8	83	3.5		50	741.0 wk qge						
						NOTE: Bx core 741' - 755' Nx - 755' - 824'						70							
							740.6 741.0	0.4/0.4	75	740									
								2.8/5.3	53				745.0 - 755.0 several slicks 55-60°, black part of sulf coat.						
							746.3												
								3.0/4.8	63			55 60							
							751.1			750									

TO ACCOMPANY .....

Dated: .....

By: .....

Filed: .....

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
							751.1			750		55	755.5 & 756.0 mod-						
												60	stng qge @ 68°						
								2.3/4.5	51										
							755.6												
												49	761.0 wk qge						
								3.5/6.0	58				764.0 wk slip // core						
										760		?	764.0 ¼" pyrite @ 50°						
							766.6						wk diss py both						
						776.0 - 781.0 qtzite		4.6/5.0	92			0	walls ± 3"						
						lt grey. mod	766.6					50							
						to stng bleach,						70	766.0 wk-mod qge						
						sandy.		3.5/4.5	84				@ 70°						
							771.1			770			768.0 wk qge @ 15°						
								4.2/4.8	88				772.0 - 776.0 wk to						
		Dq Pb Zn No					773.9					0	mod faulting, black						
												50	coated (ox sulf).						
								2.7/5.2	52			15	slicks 0°-50°.						
780						781.0-808.0 qtzite	781.1			780									
		NT NT NT 4.7/80				white fg													
						wk-mod silfa.		1.5/4.9	31										
785						somewhat vitreous.	786.0						792.0 scattered qge						
		0.6 NT NT 4.8/81																	
								2.5/4.8	52				794.0 wk qge 35°						
						808.0-809 arg. lt	790.8			790									
790						green													
								3.5/5.2	67			35	808.0 ± 4" black, chlorite?						
													indurated qge.						
						809.0-890.8 qtzite	796.0						813.0 bdg 45°						
						lt grey, loc		2.6/4.8	54										
						slight pplish (ox py)?	800.8			800									
						occ // tan													
						specks, bedg		3.2/5.0	64										
						not well def.	805.8												
								3.0/3.4	88			?							
							809.2												
							811.4	1.4/2.4	58	810									
								3.5/4.0	87										
							814.6					45							
								3.6/3.6	100										
							819.2												
										820									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
							819.2												
								3.0/4.7	64	820									
							823.9												
								3.7/4.7	79										
							828.6												
										830			831.0 bdg 57°						
								4.0/4.8	83			57							
							833.4												
												25	834.0 wk flt 25°						
								3.5/4.4	76				w bdg.						
							837.8												
						840.0 gtzite become		4.3/4.9	88	840									
						coarser grnd.	842.7												
						850.0-871.0 grades							848.0 wk flt 70°						
						to greenish color		4.2/4.3	98										
						871.0-878.0 lt grey	847.0												
						almost white		3.8/4.2	90			70							
						878.0-890.8 lt grey	851.2			850									
						w occ bleaching		4.3/4.4	98										
						& polish (ox py)	855.6												
						spots. occ speck		4.3/4.9	88										
						xtln py.	860.5			860									
								3.7/4.0	92										
							864.5					20	865.0 bdg 20°						
								3.8/5.4	70										
							869.9			870									
								3.8/3.8	100				875.0-878.5 wk to						
							873.7						mod brecciation						
								3.6/4.8	75				w 1/2" qge 0°-5° @ 877.0'						
							878.5					0-5	part ox py						
													on fract 877.0-878.0						
								3.4/4.2	81	880									
							882.7												
						887.6 ±6° arg													
						lt. green		4.0/4.9	82										
							887.6					7							
								2.2/3.2	69										
							890.8			890									

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

DEC 14 1959 O.M.E.

Month of October, 1959 Docket No. DMEA 4712 Contract No. DMI-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 140, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	7,557.00	10,921.80	18,478.80	7253.54	10921.80	18175.34
Bulldozing D.D. Stations	1,281.00	3,500.00	4,781.00	1281.00	3500.00	4781.00
Crosscutting / Drifting	6,336.00	144,164.00	150,500.00	6336.00	144164.00	150,500.00
D.D. Incidentals	458.00	672.80	1,130.80	458.00	672.80	1130.80
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	1,527.75	30,573.90	32,101.65	1527.75	30,573.90	32,101.65
Explosives						
Pipe						
Track Car Sidings		6,136.65	6,136.65		6136.65	6136.65
Rock Bolting	182.00	3,871.00	4,053.00	182.00	3871.00	4053.00
Core Boxes	71.40	401.20	472.60	71.40	401.20	472.60
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	141.00	479.00	620.00	141.00	479.00	620.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	17,554.15	200,720.35	218,274.50	17250.69	200,720.35	217,971.04

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Nov. 19, 1959 *Payee American Smelting and Refining Co.

Per J. C. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 86.25.34

Signature Dorothy F. Long (Authorized Certifying Officer)

Date 12/7/59 Vou. No. 2335

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Goldoke Title Mining Engr. Date 11-20-59

APPROVAL BY ~~DMEA~~ OME EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Area Officer Date Nov. 30, 1959

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

DEC 14 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 195 9 Docket No. DMEA 4712 Contract No. DMEA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 460, Wallace, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting	Foot	6,336.00	158.4	150,500.00	3762.5	40.00	12,485	40.00
Crosscutting								
Timbering	"	1,527.75	145.5	32,101.65	3057.3	10.50	3,950	10.50
Raising								
Rock Bolting	Each	182.00	52	4,053.00	1158	3.50	4,000	3.50
Shafts								
Car Sidings	Foot			6,136.65	13,637	.45	14,800	.45
Winzes								
D.D. Stations	"	1,281.00	36.6*	4,781.00	136.6	35.00	300	35.00
Drilling: Core								
AX or Jar.	"	7,557.00	1145	18,478.80	2827	)		6.60
Churn								
EX	"					)	11,855	6.40
Auger								
Incid.	"	458.00	1145	1,130.80	2827	.40)		.40
Stripping								
Core Boxes	Each	71.40	21	472.60	139	3.40	290	3.40
Trenching								
Assaying	Det.	141.00	141	620.00	620	1.00	4,200	1.00
Test Pits								
Roads and Trails								
Total Distributed Costs		17,554.15		218,274.50				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		17,554.15		218,274.50				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Nov. 19, 1959 Operator American Smelting and Refining Company

Per J. L. Kiesser Title Manager

Remarks:
* 650 S 11.6 Ft.
662 N 31.1 Ft - 25 Ft.
allowable under contract

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Stephen W. Goldak, Mining Engr.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Ag	Pb	Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
960										960									
		NT	NT	NT	451 53			1.4/14.0	10										
965							966.0												
		NT	NT	NT	451 54														
970										970									
		NT	NT	NT	451 55			0.6/11.7	05										
975																			
		NT	NT	NT	451 56		977.7												
980										980									
		NT	NT	NT	451 57														
985																			
		NT	NT	NT	451 58			0.5/22.3	04										
990										990									
		NT	NT	NT	451 59														
995																			
1000		NT	NT	NT	451 60		1000.0			1000									
		NT	NT	NT	451 61														
1005																			
		NT	NT	NT	451 62			1.0/17.1	06										
1010										1010									
		NT	NT	NT	451 63														
1015																			
		NT	NT	NT	451 64		1017.1												
1020										1020									
		NT	NT	NT	451 65			9.4/22.9	01										
1025																			
		NT	NT	NT	451 66														
1030										1030									

TO ACCOMPANY Memo
Dated: Nov. 16, 1959
By: J. NK
Filed:

16 DDH 30 X 67N

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	Ag	Pb	Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.	
1030										1030						
		NT	NT	NT	451 67											
1035																
		NT	NT	NT	451 68											
1040										1040						
		NT	NT	NT	451 69											
							1045.0									
1045																
		NT	NT	NT	451 70											
1050								1.9/ 12.0	16	1050						
		NT	NT	NT	451 71											
1055																
		NT	NT	NT	451 72		1057.0									
1060										1060		50	1060 bedg 50°			
								1.2/ 10.7	11							
		NT	NT	NT	451 73											
1065																
		NT	NT	NT	—		1067.7									
1070										1070						
		NT	NT	NT	—			0.0/ 12.3	00							
1075																
		NT	NT	NT	—											
1080							1080.0			1080						
		NT	NT	NT	—											
1085																
		NT	NT	NT	—			0.8/ 17.1	05							
1090										1090						
		NT	NT	NT	—											
1095																
							1097.1									
1100		NT	NT	NT	—					1100						

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Ag	Pb	Zn		LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
1100										1100									
		NT	NT	NT															
								01/12.9	01										
1105																			
		NT	NT	NT															
1110							1110.0			1110									
		NT	NT	NT															
								1.3/7.0	19										
1115																			
		NT	NT	NT		1117.0 – 1145.0	1117.0					80	1117.0 bdg. 80°						
1120						qtzite lt grey				1120									
						massive mod.		1.2/9.0	13										
		NT	NT	NT		silf°. some													
1125						cave but a num.	1126.0												
		NT	NT	NT		of 2"-4" pieces	1127.8	0.5/1.8	28										
1130						of core.	1129.8	0.0/2.0	00	1130									
								0.5/3.6	14										
		NT	NT	NT			1133.4												
1135																			
		NT	NT	NT				2.4/11.6	21										
1140										1140									
		NT	NT	NT															
1145							1145.0						END OF HOLE						

PAJARI 105' S3½E +3°
300' S2 E +10°
550' S5° E +14°

American Smelting and Refining Company
DIAMOND DRILL HOLE LOG

Sheet 1 of

Property: PAGE
Location: 3070 East Page Drive
Coord.-Collar E. 12,485
N. 8180
Elev.-Collar
Date-Started: 10/13/59
Completed

Hole No. 30-751S
Bearing: NORTH - see surveys
Inclination: FLAT - see surveys
Length
Core Size
Logged by: SHH

ASSAYS - SLUDGE: Intercept	WT.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	<	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
		0 — 11.4 arg ppl. w/ occ lt ppl to gry arg qtzite both wk silfd. grades to ppl qtzite		7.0/?					0-11.4 occ "bed" flt.		
						10					
		11.4 - 23.4 qtzite ppl w occ ppl arg ribbons. grades to lt grey qtzite	11.4 / 12.1 / 13.3 / 13.0 / 16.0 / 19.3 / 19.3 / 19.3 / 19.3	0.5/0.7 / 0.8/1.2 / 1.1/1.7 / 0.4/0.6 / 0.3/0.4 / 0.3/0.4 / 0.3/0.4	76 / 75 / 65 / 70 / 86 / 86 / 86			85 90	18.0 bed.g 85-90		
		23.4 - 33.0 qtzite lt. grey slight ppl.	20.8 / 21.3 / 23.4	2.0/2.6 / 0.4/0.7 / 1.5/1.9	77 / 57 / 79	20					
		33.0 - 36.6 arg & qtzite ppl to grn	29.4	4.1/5.0 / 5.6/6.0	82 / 93	30					
		36.6 - 63.0 qtzite lt to med grey occ slight ppl. occ. thin ribbon argillite. bleaching along bedg planes & as irr small specks	35.4 / 36.6 / 40.5 / 41.9 / 43.4 / 49.8	1.5/1.6 / 3.0/3.9 / 1.0/1.4 / 1.2/1.5 / 5.5/6.4	100 / 77 / 71 / 80 / 86	40 / 50					

TO ACCOMPANY MEMO
Dated: Nov 12 1959
By: SNK
Filed:

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	Ag	Pb	Zn		LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
								2.6/4.6	100	50					
							54.4						58.0 bdg. 85-90°		
								3.8/4.0	95			85 90			
							58.4			60					
								2.9/5.0	58						
							63.4								
						63.0-143.0 qtzite	65.8	2.0/2.4	83						
						lt grey. sparse		1.7/3.2	53						
						ribbons grey-grn	69.0 70.7	0.7/1.1	64	70		85	70.0 bdg. 85°		
						arg & beds arg qtzite	71.8	1.4/1.7	82				71.9 1" vuggy qtz & brec.		
						occ. wk to mod	73.5	1.5/1.7	88				wallrock several 1/8-1/4		
						silfd. sect. occ	75.0	1.6/3	80				blebs galena on bdg.		
						hairlike tan streak	76.6 77.4 77.5	1.0/1.6 0.5/0.8 0.2/0.5	62 64 100				NC / NX		
						on bdg.	80.6	1.5/2.7	55	80					
								3.5/5.0	70			0 85 90	82.0-85.0 occ wk fract II core. 85.0 bdg. 85-90		
							85.6								
								3.8/5.4	70	90					
							91.0								
								2.7/5.0	54						
95							96.0								
		NT	NT	NT	451 75			1.1/3.0	37				99.0 2" bx broken		
							99.0			100		75	core to 101.0		
100								2.8/4.2	67				slicks at 75°		
							103.2						106.2-106.4 wk		
						113.2-113.7	106.2	2.2/3.0	73				scatt. qgs		
						arg grey-green	108.2	1.5/2.0	75						
										110		80	110.0 bdg. 80°		
								3.7/5.0	74						
							113.2								
								3.4/4.4	77						
							117.6								
								3.4/3.4	100	120					
							121.0								

ASSAYS - SLUDGE		DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
			121.0			120					
			122.3	1.0/1.3	77						
		122.3 2" arg	123.6	1.0/1.3	77						
		bright apple green		3.9/5.0	78						
			128.6								
				3.8/4.3	88	130		85	130.0 2" bx. silica cemented		
			132.9								
		143.0-148.0 arg		3.3/5.1	65				131.0 bdg 85°		
		grey somewhat massive	138.0								
		148.0-150.0 qtzite		4.2/4.7	89	140					
		lt grey	142.7								
			144.8	1.9/2.1	90						
				5.7/4.2	88						
		150.0-155.0 arg &	149.0								
		arg qtzite. grey		4.2/5.9	71	150					
		to pplish.						80	152.0 bdg. 80°		
			154.9								
		155.0-232.0 qtzite							155.0-159.0 several		
		lt grey occ. disc		4.5/5.1	88			10-20	slickstwk qge		
		ribbon grey arg.	160.0			160			at 10°-20°		
		cse to f.g. w/ occ.		3.6/5.0	72				166.0-167.0 occ.		
		ox coated fract &	165.0						random slicks.		
		bed flt. loc.							167.0 3/4" vuggy barren		
		mod bleach & silfn.		3.9/3.9	100				qtz (bdg?)		
		199.0-200.0	168.9			170					
		increase in		4.0/4.9	82				Note: occ. slip along		
		amt green arg.	173.8						arg bedg throughout		
				4.3/4.8	89						
			178.6								
				4.2/5.0	84	180					
			183.6								
				3.8/4.5	84				189.0 bdg 80°		
			188.1								
								80			
						190					

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	Ag	Pb	Zn		LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
								4.2/4.8	88	190					
							192.9								
								4.6/5.0	92						
							197.9								
								4.2/4.7	89	200					
							202.6								
								1.8/2.3	78						
205							204.9								
					451			2.4/3.8	63						
		NT	NT	NT	76		208.7								
210								1.6/3.9	41	210		80	210.0 bdg. 80°		
					451								212.0 - 215.0 occ red.ppl		
		NT	NT	NT	77		212.0					35	streak & irr patch.		
215													(FeOx);		
								7.1/5.8	72				213.0 wk slick @ 35°		
220										220			215.0 - 216.0 bkn core		
							222.4						occ. slick approx bdg.		
					451										
		NT	NT	NT	74			1.1/3.6	31						
225							226.0								
					451										
		NT	NT	NT	78	232.0 - 310.0 qtzite & loc		2.0/5.0	40						
230						arg qtzite. lt grey pred.				230					
						c.se.gr. w/ specks	231.0								
					451								236.0 slick 65° opp bdg.		
		1.1	NT	NT.	79	bleaching & (sid?)		3.3/4.1	85				236.3 slick 65° ≈ ll bdg.		
235						sparse random	235.1					65	237.0 bdg 85°		
						(on fract) smears & seams						65			
								4.2/5.0	84			85			
						calcite & white qtz.	240.1								
						loc red-ppl bands				240					
						& patches. bed'g		4.3/4.4	98						
						marked by hair like	244.5								
						tan arg and (or) sericite		4.7/4.7	100						
						streaks.	249.2								
										250		80	250.0 bdg 80°		
								4.1/4.7	87						
						250.0 2" arg	253.9								
						bright apple grn		3.8/4.5	85						
							258.4								
										260					

S DDH 30-7515

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Rem	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						260.0 6" arg				260									
						grn. grey w occ		3.4/4.7	72										
						1/2"- 3" bed arg	263.1												
						to 288.0		3.8/3.8	100										
							266.9												
								4.2/4.5	93	270			275.0 bdg. 80°						
							271.4												
								4.6/4.6	100										
							276.0					80							
								3.7/4.8	77										
							280.8			280			281.0 bdg. 75°						
												75							
								3.6/4.0	90										
							284.8					80	285.0 bedg. 80°						
								3.8/4.0	95				290.0 - 292.8 wk bx						
						288.8 + 3-4 feet	288.8						silica cemented.						
						mod. silfn				290			292.8 2 slicks @ 75°						
								3.7/4.0	92			75							
							292.8					35	293.0 several thin ≈ 1/4'						
												75	vuggy qtz seams w/ sid						
						297.0 qtzite						70	35°-75°						
						becomes more		8.5/8.7	98			50							
						massive & finer				300			295.0 bedg 70°						
						grnd w/ loc thin	301.5						295.0 red ppl coated						
						ribbons of grey arg.		4.0/4.4	91				slick at 50°						
							305.9												
						310.0 - 319.0 qtzite		3.8/4.7	81				312.0 loc. folding						
						& arg qtzite	310.6			310			313.0 bdg 70°						
						lt grey w/ minor		4.5/4.6	98				315.2 ≈ 3" bx red ppl						
						ribbons arg. occ.	315.2					70	mottled fract filled						
						tan specked &		4.5/4.8	94				w/ massive sericite						
						loc wk silfn.													
						grades to more	320.0			320		80	319.0 wk qpc 80°						
						pure qtzite		4.0/4.9	82				320.0 - 326.8 occ						
							324.9						bdg & lt red ppl						
								4.6/4.9	94			65	slicks						
							329.8						326.0 bdg 65°						
										330									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						319.0 - qtzite lt grey, cse to f.g. loc. slight arg & loc. thin ≤ 1/2" beds green-grey arg. occ. red-ppl patch or streak on fract. cont. some very fine gr. py. below 400.0 FeOx on slicks only	319.8			330									
								4.2/4.0	88										
							334.6						332.0 - 333.0 wk gge w random slicks & wk bx						
								3.8/3.0	54			75	335.0 bdg 75						
										340			335.0 - 341.0 mod = bx & fract.						
							341.6						341.0 - 342.0 mod-stng bx w occ gge @ 5°-15°						
								2.7/5.0	54										
							346.6												
							350.0	3.3/3.4	97	350		75	349.0 1" shear in arg. bdg						
													351.0 ≈ 3" mod bx w wk gge slick 5-10°						
								4.2/3.0	84										
							356.0												
								4.4/5.9	76				361.0 bdg 55°						
							360.9			360		55							
								4.3/5.0	90				366.0 bdg 45°						
							365.9					45							
								3.7/4.2	88				374.0 bdg 50°						
							370.1			370									
								3.8/3.0	100										
							373.9					50	377.0 - 379.0 stng silfn (veining ?) w stg mass sericite, sparse py, alt white (qtz) tan (sericite) & red-ppl (FeOx) bands parallel to bdg ≈ 55°						
								4.6/4.1	98										
							378.6					55							
								4.2/4.6	91	380									
							383.2												
								4.3/4.7	91										
							387.9												
								4.2/5.1	82	390									
							393.0						397.0 bdg 50°						
								3.2/4.4	73										
							397.4					50							
								3.4/3.5	97	400									
							400.9												

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
							400.9			400			400.0-462.0 numerous wk fract // core occ slick ox coated						
								4.1/5.1	80										
							406.0												
								4.0/4.6	87										
							410.6			410			412.0 bdg 45-50						
								4.2/4.7	89			45 to 60							
							415.3												
								4.5/4.6	98										
							419.9			420									
								4.3/4.9	88										
							424.8						425.0 bdg 50°						
								4.2/4.6	91			50							
							429.4												
								4.6/4.9	94	430									
							434.3												
								4.6/4.8	96										
							439.1												
								4.3/4.9	88	440									
							444.0												
								4.0/4.6	87										
							448.6												
								4.3/4.7	91	450		55	450.0 bdg. 55						
							453.3												
								4.1/4.4	93				452.3 1/4" qtz sil 40° w/ assoc 4"-5" mod silfo						
						457.7 + 2" ang. bright apple grn highly sared.	457.7												
								4.0/4.6	87	460									
							462.6					55	462.0 bdg. 55						
								4.6/4.7	98										
							467.0												
								4.0/4.6	87	470									
							471.6												

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						319.0 - cont.				470									
						462.0 - 500.0	471.6												
						locally bdg		4.2/3.6	86										
						marked by delicate	475.2												
						hairlike tan		3.9/5.7	68				482. bdg 57						
						(serc-arg) bands	480.9			480									
						grad inc in		4.9/5.1	96			67	486.0 1/2" qtz sid						
						ribbons arg							@ 35° opp bdg						
						below 500'	486.0					35							
								3.9/3.0	100										
							489.0						490.0 bdg 70°						
						504.0 2" bright		2.1/2.2	95	490		70							
						apple grn arg.	491.8												
								2.5/4.7	53										
							495.9												
								4.0/4.5	89										
										500			500.0 - 560.0+ occ						
							500.4						bedg fault in arg.						
								3.5/3.5	100				507.0 arg core beg. run						
							503.9						508.0 bdg 62°						
								3.0/3.0	100										
							506.9												
								3.8/4.0	95										
										510									
							510.9												
								3.9/4.6	85										
							515.5												
								3.9/4.0	97										
							519.5												
										520									
								3.6/4.0	90				523.0 bedg 70°						
							523.5												
								4.0/4.4	91			70							
							527.9												
								4.0/4.5	89	530									
							532.4						532.0 bdg & bdg fault						
								3.8/4.6	83				black slick: wk gge						
							537.0						@ 70°						
												70							
								3.9/4.3	86	540									
							541.3												

EXTRA COPY O. M. E RECEIVED DEC 14 1959		
DATE	INITIALS	CODE

Wallace, Idaho
November 16, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT -- OCTOBER 1959

In the 3070 East Page Drive, advance in October was 145.5 feet, for a total under the OME contract of 3,483.4 feet. There was no advance in 714 XCN but 662 XCN, a diamond drill station at coordinate 13,375 E, was completed at 31.1 feet, and 650 XCS, a diamond drill station at coordinate 13,500 E, was advanced 11.6 feet. In the drive and in the crosscuts, the rocks are predominantly light-grey, argillaceous quartzites and purple argillites. The bedding and numerous minor bedding-plane faults have strikes of N. 80° to 85° E., or about parallel to the drive, and dip steeply either north or south. Several relatively weak faults, striking northwesterly, and dipping southwesterly, were encountered. A subparallel fault structure in the south wall of the drive occasioned considerable difficulty in driving 650 XCS.

DDH 30-767N advanced 208 feet and was stopped at 1,145 feet. Core recovery continued to be very poor throughout this advance, being mainly mud and small to large fragments of quartzite. When the drillers encountered difficulties and it seemed likely that casing would be required, the hole was stopped. If, as has been suggested, the last 236 feet represent the Osburn Fault Zone, then the dip of the zone from surface is about 55°. This is the dip at which the zone was projected when the project was being laid out. None of the sludge samples showed values in silver, lead, or zinc.

DDH 30-751S, at approximate coordinate 12,500 E, was drilled to 500 feet and is continuing. It penetrated purple argillite, and light-grey quartzite and argillaceous quartzite, to 155 feet. Beyond this footage, the rocks are predominantly light-grey quartzite, probably of the Revett formation. Several quartz stringers less than one inch wide were encountered and one of these, at 72 feet, contained several blebs of galena. No significant faulting was encountered.

Total diamond drilling to date is 3,327 feet.

Plate 1 is a plan showing the geology of the work accomplished in October. Core logs for footage 960 to 1,145 in DDH 30-767N and for footage 0 to 500 in DDH 30-751S also are attached.

Respectfully submitted,
Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:
Plate 1 - Plan, Geology of advance in
East Page Drive, DDH 30-767N, and DDH 30-751S - 1" = 50'
Core logs, DDH 30-767N, 960' to 1,145'
Core logs, DDH 30-751S, 0' to 500'

OME Field Team, Region I

December 7, 1959

OME Certifying Officer, Region I

American Smelting and Refining Company, Contract No. Iam-21134
Monthly operating report for October 1959

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

The difference in the drilling costs claimed by the Operator and those certified for payment is explained as follows:

The Operator claimed 1,145 feet of drilling at $6.60 per foot, or $7,557.00. However, invoices from the driller show an average actual cost of $6.33 per foot, or $7,253.54:

49'	AX	@	$5.20	=	$ 254.80
283'	"	@	5.74	=	1,624.42
168'	"	@	5.74	=	954.32
33'	"	@	6.50	=	214.50
404'	"	@	6.50	=	2,626.00
63'	"	@	6.50	=	409.50
145'	"	@	8.00	=	1,160.00
1145'					$7,253.54 = $6.33 per ft.

Dorothy F. Long

cc: OME (2)
USGS (2)
USBM (AD)
Contract Admin. (2)
Zoldok

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DATE	INITIALS	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
October 16, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 26 1959

DATE	INITIALS	CODE
10-26	gad	220
"		110
10/27		800
10/27		500

Memorandum

To: OME Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim inspection report, Docket No. DMEA-4712 (Lead-Zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was visited and inspected on October 1, 1959. The previous inspection was made by S. W. Zoldok, Mining Engineer, Bureau of Mines, on August 5, 1959. A short conference regarding the contract and progress was held at the mine office with Troy Tower, superintendent of the Page mine, C. J. Ward, assistant superintendent, and John Butler, engineer.

From the conference it was learned: underground development and mining was now on a 5-day-per-week schedule with 2 shifts per day; the mill was running only 4 days per week at maximum capacity of 500 tons of ore per day; a new contract had been let for the exploration drilling; Boyles Brothers had pulled out in July after finishing their minimum drilling contract; the new drilling contractors operate on a 5-day-per-week schedule with 2 shifts per day; and they are now averaging about 16.5 feet of drilling per day.

An underground inspection of the 3070 level was made, accompanied by Mr. Tower. The main crosscut continues in a N. 83° E. direction through light-colored, thin-bedded, argillaceous and siliceous rocks, believed to be the St. Regis formation. The ground is badly broken by joints and bedding plane shears, and slabs readily. It is necessary to timber within a few feet of the face. Considerable water is also encountered. No significant mineralization or structures have been found in the latest contract advances.

Contract Measurements (3070 DE)

Main Drift

Previously reported to Sta. No. 1616	2,621.82 feet
Sta. No. 1616 to face	718.00 "
Total advance to 10/ 1/59	3,339.82 feet

Timbering

Previous timber advance reported (Sta. No. 1616 + 4.27 ft.)	2,495.76 feet
Sta. No. 1616 to face minus 10 ft. - 708 ft. Advance 708 - 4.27	705.73 "
Total timber in 3070 DE to 10/ 1/59	3,201.49 feet

714 XCN (No. 1 XCN) (Coordinate 12,880 E)

This crosscut has been advanced 234.7 feet to the north. The first 64.5 feet is fully timbered and the remainder rock bolted. No count of the rock bolts were made.

706 XCS (No. 1 XCS) (Sta. No. 1616 + 235 ft.)

No advance has been made on this crosscut since the previous visit and the measurement from the main drift to the face remains at 31.5 feet with 29.5 feet of timbering.

Car siding excavations:

Previously reported to 8/ 5/59	13,898 cu. ft.
Sta. 1616 + 67.5 ft.	260 " "
Total to 10/ 1/59	14,158 cu. ft.

Diamond drilling

Previous reported (Hole H30-823N)	755 feet
Hole H30 - 800S	927 "
Hole H30 - 767N	937 "
Total to 10/ 1/59	2,619 feet

The drillers report no core recovery in hole H30-767 N. from 923 to 937 feet.

Distribution:
OME(4) Docket
USBM(2) Sample
USBM(AD)

R. D. Sample

Standard Form No. 1034a—Revised
Form prescribed by
Comptroller General, U. S.
September 7, 1950
(Gen. Reg. No. 51, Supp. No. 11)

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

D. O. Vou. No. 2330

NOV 6 1959 O.M.E.

U. S. _____
(Department, bureau, or establishment)

Voucher prepared at Spokane, Washington 11/2/59
(Give place and date)

THE UNITED STATES, Dr., Payee's Account No. Idn-E1134

To American Smelting and Refining Company
(Payee)

Box 440 (Address) Wallace (City) Idaho (State)

PAID BY

(For use of Paying Office)

No. and Date of Order	Date of Delivery or Service	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary) Discount Terms	QUANTITY	UNIT PRICE Cost	UNIT PRICE Per	AMOUNT Dollars	AMOUNT Cts.
		MF-104's Revised: June 1959 $4,277.12					
		July 1959 3,747.60					
		August 4,154.28					
		September 5,275.95 $17,454.95					
		Less: Payments on original Forms MF-104					
		June and July 1959 9,114.16					
		Approved for payment:				8,340	79
		Use continuation sheet(s) if necessary					

PAYMENT:
Complete ☐
Partial ☐
Final ☐

Shipped from to Weight Government B/L No. Total 8,340 79

(Payee must NOT use this space)

Differences _____

Account verified; correct for 8,340 79

(Signature or initials) _____

Contract No. Date Req. No. Date Invoice Rec'd.

MEMORANDUM

ACCOUNTING CLASSIFICATION (For completion by Administrative Office)

Appropriation, limitation, or project symbol	Appropriation title	Limit'n. or Proj't. Amount	Appropriation Amount

Allotment symbol	Amount	Obligations liquidated	COST ACCOUNT Symbol	COST ACCOUNT Amount	OBJECTIVE CLASSIFICATION Symbol	OBJECTIVE CLASSIFICATION Amount

Paid by { Check No. _____ dated _____, 19____, for $_____ / Cash, $_____, on _____, 19____. } on Treasurer of the United States in favor of payee named above.

16—22900a-2

METHOD OF OR ABSENCE OF ADVERTISING

METHOD OF ADVERTISING

1. Advertising in newspapers Yes ☐ No ☐.
2. (*a*) Advertising by circular letters sent to ..... dealers.

   (*b*) And by notices posted in public places Yes ☐ No ☐.

   (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made below.)

ABSENCE OF ADVERTISING

3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with .....
5. Without advertising, it being impracticable to secure competition because of .....

.....

.....

.....

.....

(Here state in detail the nature of the exigency or circumstances under which the securing of competition was impracticable under 3 and 4)

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal, and acceptance, or less formal agreement) Standard Form No. 1036—Revised should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, as amended.)

U. S. GOVERNMENT PRINTING OFFICE : 1950 O—75805

16—22000a-2

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED NOV 6 1959 O.M.E.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		10,921.80	10,921.80		10921.80	10921.80
~~Bulldozing~~ D.D.Stations		3,500.00	3,500.00		3500.00	3500.00
Crosscutting	8,188.00	135,976.00	144,164.00	8188.00	135976.00	144164.00
Drifting						
D.D. Incidentals		672.80	672.80		672.80	672.80
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	2,013.90	28,560.00	30,573.90	2013.90	28,560.00	30,573.90
Explosives						
Pipe						
~~Track~~ Car Sidings	117.00	6,019.65	6,136.65	117.00	6019.65	6136.65
Rock Bolting	70.00	3,801.00	3,871.00	70.00	3801.00	3871.00
Core Boxes	85.00	316.20	401.20	85.00	316.20	401.20
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	78.00	401.00	479.00	78.00	401.00	479.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	10,551.90	190,168.45	200,720.35	10551.90	190168.45	200,720.35

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Oct. 16, 1959 *Payee American Smelting and Refining Co.

Per J. C. Kinsor Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5275.95

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 11/2/59 Vou. No. 2330

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E1134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldak Title Mining Engr. Date Oct. 22, 1959

APPROVAL BY ~~DMEA~~ ONE EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wesley G. Agnew Title Acting Exec. Date 10-28-59

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

[redacted]

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~ Crosscutting	Foot	8,188.00	204.7	144,164.00	3604.1	40.00	12,485	40.00
~~Crosscutting~~ Timbering	"	2,013.90	191.8	30,573.90	2911.8	10.50	3,950	10.50
~~Raising~~ Rock Bolting	Each	70.00	20	3,871.00	1106	3.50	4,000	3.50
~~Stopes~~ Car Sidings	Foot	117.00	260	6,136.65	13,637	.45	14,800	.45
~~Winzes~~ D.D.Stations	"			3,500.00	100	35.00	300	35.00
Drilling: Core AX or Lex.	"			10,921.80	1682	6.49		6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"			672.80	1682	.40		.40
~~Stripping~~ Core Boxes	Each	85.00	25	401.20	118	3.40	290	3.40
~~Trenching~~ Assaying	Det.	78.00	78	479.00	479	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		10,551.90		200,720.35				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		10,551.90		200,720.35				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Oct. 16, 1959 Operator American Smelting and Refining Company

Per J. C. Kinser Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Stephen W. Goldsh
Mining Eng.

NOV 6 1959
O.M.E.

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
October 14, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT - SEPTEMBER 1959

In the 3070 East Page Drive, advance in September was 191.8 feet, for a total under the OME contract of 3,337.9 feet. In 714 XCN, advance was 12.9 feet, for a total of 234.7 feet. The rocks exposed in the drive are light grey quartzites and argillaceous quartzites, and purple argillites. The bedding, and the bedding-plane faults, which are particularly noticeable in the argillite, strike N. 80° to 85° E. and dip very steeply either north or south. A strong fault in the latter part of the advance strikes N. 60° W. and dips 30° SW., making heavy ground.

DDH 30-767N advanced 404 feet to 937 feet, and is continuing. The corrected total diamond drill hole footage for the project is 2,619 feet. The rocks penetrated to 742 feet continue to be, alternately, purple argillite and light grey quartzite, both of which are locally calcareous. The calcareous material appears to be a form of alteration which is strongest along planes parallel to bedding. Zones of significant faulting and brecciation occur at footages 528.0 to 532.5, 540.6 to 551.3 and 567.6 to 575.0. Any one or all of these zones might be correlated with the fault zone in DDH 30-823N between footages 402 and 413. From 742 feet, the rocks are predominantly light grey, locally thick-bedded quartzite, with the bedding making a large angle with the core. From 839 to 894, average core recovery, which had been better than 75%, was 21%, and it is inferred from the appearance of the sludge, and from the reports of the drillers, that most of the unrecovered material is very soft and washed out readily. However, there is little gouge. From 894 to 909, recovery is 78%, and the rock is light grey argillite and argillaceous quartzite. From 909, recovery is less than 10%, and the drillers report mud, but no squeezing and no markedly increased water flow. It is suggested that the hole entered the hanging wall of the Osburn Fault Zone at 839 feet, encountered a "rib" of rock which had somehow been protected from the grinding action in the fault zone, and then entered the intensely faulted zone at 909 feet.

No mineralization has been intersected.

Plate 1 is a plan showing the geology of this work. Core logs for footages 540 to 960 are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN
S. NORMAN KESTEN

Attachments:
Plate 1 - Plan, Geology of advance
in East Page Drive and DDH 30-767N - - - - 1" = 50'
Core Logs, DDH 30-767N, 540' to 960'

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	Ag	Pb	Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, PAULTS	Intercept	% Recov.	
540								0.7/1.0	35	540			540.0 bedg. @ 48°			
		TR	NT	NT	451 23		540.7 / 541.5	1.2/2.8	150			50?	540.6-544.6 gge w occ rock frag. @ 50°(?)			
						554.0-580.5 qtzite lt grey to lt ppl. loc. arg. qtzite	543.2 / 544.6	0.6/1.7	35				544.6-546.1 1/8"-3/8" frags. occ gge to 545.5'.			
545							545.5 / 546.6	0.7/0.9	78							
								0.9/0.9	100							
								0.9/0.9	100							
								2.8/4.7	60	550		30 30°	551.3 6" gge w small & 1/8" rounded frags @ 30° on bed'g.			
							551.3 / 552.0	1.1/0.7	157				550.0 & 551.3 bed'g 30°			
							554.3	1.5/2.3	65				553.0-554.0 fract core scattered gge (weak)			
							556.5	2.0/2.2	91							
							556.9	0.8/0.6	75							
							558.9	1.1/2.0	55							
560							560.9	1.1/2.0	55	560		40	560.0 ox. slick @ 40			
							561.7	1.3/0.8	163			35	561.5-577.0 fract core occ gge & breccia			
		TR	NT	NT	451 24		563.8	1.0/2.1	48				561.5 +1" gge @ 35° bd'g			
565						Note: Casing to 575'	566.5	1.2/2.7	44			35?	563.8 +1" gge @ ?			
							568.9	1.6/2.1	76			70	567.6-12" gge w calc. breccia slicks 70°			
							569.9	0.8/0.8	100				568.8 2" gge			
570		TR	NT	NT	451 25		571.4	1.1/2.1	52	570		45	569.0 5" breccia @ 45°			
							571.8	0.7/1.1	67				571.0 1" gge			
						580.5-589.4 qtzite lt grn to lt grey occ ribbon 1-2.0 of argillite. loc calc. esp. on fract.	574.0	1.4/2.6	54				573.0 scattered gge			
							576.4	1.3/2.4	54			35	575.0 4"-5" gge breccia slicks @ 35°			
							580.2	2.3/3.8		580		55 65	576.0-578.0 several flts (wk) on bed'g 55°-65° oxide coated.			
							585.6	4.1/5.4	76			80	583.0 bedg 80°			
						589.4-628.0 qtzite dark to lt ppl. occ. thin bed grey qtzite & rib. of ppl to gry grn arg. loc calc. 593'-597' (white bleached silf & calc. qtzite w/ abundant red ox coat. fract. color grad to grey 625.0-628.0	589.4	2.9/3.8	76				597.5 +2" breccia, calc, red ox coat fract.			
590							593.0	1.9/3.6	53	590						
		NT	NT	NT	451 26			1.0/50	20							
595							598.0									
		NT	NT	NT	451 27			4.8/5.6	86				603.0 bedg 70°			
600							603.6			600			603.0-615.0 occ bedg flt on argillite bed			
							605.8	1.6/2.2	73			70	606.0 1/2" gge on bed'g (?)			
								4.8/5.0	96				610.0 1/2" gge on bed'g @ 75°			
							610.8			610		75				

TO ACCOMPANY
Dated
By
Filed

ASSAY - SLUDGE		DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.	
			610.8			610						
				2.5/3.4	74				614.0' bed'g 75°			
			614.2						617.0' ± 1/2" qqe			
		11.0		1.7/2.8	61				618.0 +6" flaky qqe			
			617.0						& brecia			
		628.0 - 641.0 qtzite		3.5/4.0	88							
		lt grey, dense	621.0			620						
		mass, num.	622.6	1.2/1.6	75				624.0' 1/2" flaky qqe			
		fract. coated		1.8/2.5	72				argillite			
		w/ reddish Fe ox.	625.1						626.0-628.0 occ qqe			
				1.8/2.9	62			80	@ 80° prob. on bed'g			
			628.0									
				1.6/2.0	80							
			630.0			630						
				4.0/4.6	87				633.0 wk qqe			
			634.6						634.0 - 641.0 occ. qqe			
				2.1/2.4	88				w/ weak brecciation			
			637.0						2" qqe at 641.0			
				2.4/4.0	60							
		641.0 - 657.0 arg.	641.0			640						
		dk & lt ppl to		3.1/4.0	78				644.0 1" qqe @ ±70°			
		lt grey, sparse	645.0					70	645.0 bed'g @ 80°			
		ppl. qtzite.		2.0/3.0	67			80°				
		fract. Fe ox.	648.0						650.0 bdg @ 75			
		coated. grades		4.1/5.4	76	650		75				
		to lt grey qtzite							655.0 10" gritty qqe			
			653.4						on bed'g (?)			
		657.0 - 673.0 qtzite	656.1	2.7/2.7	100			?	658.0 1/2" flaky qqe			
		lt. grey- tan		3.8/3.9	97			75	on bed'g @ 75°			
		streaks. calc. sparse	660.0			660						
		lt grey arg. near end.		4.0/4.5	90							
		sharp lower cont.	664.5									
		Fe ox coat. fract.	665.6	0.9/1.1	82			60				
		673.0 - 676.5 arg.		3.3/4.0	83				675.0 1" flaky qqe			
		dk. ppl. occ. ribbon	669.6			670			sericite & qtz @ 60°			
		lt grey arg.		3.2/4.4	73				(bed'g.)			
		676.5 - 687.0 qtzite	674.0						676.0 bed'g 65°			
		lt grey. occ. calc		4.3/4.5	96			65	678.5 12" core length qqe			
		tan streak. occ	678.5						w/ rock frags @ 15°			
		ribbon lt grn-lt.gry				680		15				
		arg.	11.3									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Ag	Pb	Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						687.0 - 703.0 qtzite		4.1/4.5	91	680			686.5 6" highly fract						
						& arg. qtzite.	683.0						red oxide coated						
						med. grey slight		2.8/4.0	70				w 2" qge (core length)						
						ppl. occ tan	687.0					15°	@ 15°						
						speckled (not calc.)		3.0/3.0	100			70-75	688.0 bed'g - 70-75°						
						occ. thin ± 1/4" grey	690.0			690		70	690.0 bed'g - 70°						
						arg. some calcite		4.4/5.0	89				696.0 bed'g - 70°						
						on fract.	695.0						699.0 2 1/4" qtz-calcite						
						703.0' - 710.0' arg		1.3/2.5	52			70	strs @ 35°						
						& arg qtzite.	697.5						699.5 & 710.0 w/ minor qge						
						≥ 50% ea. ppl.	700.0	2.3/2.5	92	700		35	704.0 bed'g 65°						
						to lt & dk grey.	702.0	1.5/2.0	90				708.0 bed'g 55°						
						grade to ppl-grey	703.0	10.10	100			65	720.0 bed'g 65°						
						qtzite.	705.8	1.8/2.8	64				725.5 - 728.0 core						
						710.0 - 716.5 qtzite	706.0	0.2/0.2	100				highly broken & flaky						
						ppl-grey w/ occ. tan		3.5/4.8	73			55	bed'g flts.						
						speck. & calc	710.8			710			728.8 & 731.0 several						
						tan irr. streak	711.9	0.8/1.1	73				inches of 1/8"-1/4" pebbles						
								3.7/4.6	80				at begin of runs						
715						716.5 - 724.0 arg &	716.5						(cave?)						
		NT	NT	NT	451 28	qtzite. ppl.							730.0 bed'g 65°						
						interbedd		1.6/6.3	25	720									
720						724.0 - 725.5 arg. qtzite	722.8												
		NT	NT	NT	451 29	lt grn to lt grey													
								3.0/3.8	79										
725							726.6												
						725.5 - 742.0 arg.	728.0	1.4/1.4	100										
						ppl w/ occ thin	729.8	0.8/0.8	75										
						grey to grn beds	729.5	0.6/0.7	86			65							
						grades into following	731.0	1.3/1.5	87	730									
						rock & color	733.1	2.0/2.1	95				733.1 - 734.7 arg is flaky						
							734.7	1.3/1.6	81				& highly broken (bed'g						
								3.7/5.2	71			65	partings?)						
						742.0 - 796.5 qtzite	739.9			740			737.0 bed'g 65°						
						lt. grey w/ minor		3.3/4.1	80				742.5 1" qge & frags @ 25°						
						arg. qtzite & thin	744.0					25	744.0 3" qge & frags @ (75?)						
						ribbons grn-grey		1.7/3.2	53			75?							
						arg. occ calc	747.2												
						tan streak, some		3.5/4.5	78	750									
						tan specks (calc.?)	751.7												

ASSA. - SLUDGE Intercept	Wt.	Ag	Pb	Zn	No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG		DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
										750					
							751.7						754.0 bdg 70°		
							753.1	1.9/1.4	135						
								4.1/5.1	80			70			
							758.2								
								3.7/4.5	82	760					
760							762.9						765.0 bdg 70°		
		NT	NT	NT	451 30		765.1	0.0/0.5	0				765.6 ppl arg frags. (cave)		
765							765.6	1.7/2.4	40						
								3.2/3.9	82			70			
						796.5 - 798.0 arg grn to lt grey	769.5			770			770.0 - 780.0 occ		
								3.3/4.2	79			60 65	bdg flt along argillite ribbons		
							773.7								
							775.9	2.2/2.2	100				770.0 bdg 60-65		
						798.0 - 830.0 qtzite lt grey partly massive, num. thin beds grn & grey arg & arg qtzite, occ. calc, tan sect. beyond 815.0'		3.3/3.6	92				773.74 775.9 begin runs cont ppl arg. cave		
							779.5			780		55	780.0 bdg @ 55°		
								3.5/4.7	74			60	782.0 bdg 60°		
							784.7								
								3.2/4.1	78				780.0 - 790.0 broken core wk scattered qge		
							788.3								
							790.3	1.2/2.0	60	790			794.2 begin run ppl arg cave		
							792.7	1.6/2.4	67				795.0 wk silfn.		
							794.7	1.1/1.5	73				798.0 bdg 80°		
							795.5	0.9/1.3	69						
								3.9/4.6	85			80	800.0 - 819.6 occ bdg flt, cave begin runs		
							800.1			800					
								3.8/4.8	79			70	801.0 bdg 70°		
							804.9								
								2.7/3.4	79						
							808.3								
							810.5	1.9/2.2	86	810			811.0 bdg 75°		
								2.3/2.8	82			75			
							813.3								
								3.3/4.1	80						
							817.4								
							818.0	0.6/0.6	100				819.6 +1" qge mod? flt		
							819.6	1.5/1.6	94						
										820					

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	Ag	Pb	Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
							819.6								
								3.6/4.3	84	820		70	820.0 bedg 70°		
							823.9								
								2.8/5.1	90				826.0 wk qge		
						830.0 - 847.0 qtzite	827.0						Note: ppl arg. cave		
						lt grey, pplish	828.6	1.3/1.6	94				continues at begin of runs		
						loc argillaceous		2.7/4.5	60	830		75	830.0 bedg 75°		
						w arg. ribbons, occ	833.1								
835						lt tan calc. streak		1.9/3.6	53						
						sub parallel to bdg.	836.7								
		NT	NT	NT	451 31		837.8	0.9/1.1	82						
							839.1	1.0/1.3	77						
840						847.0 - 849.8 qtzite		1.2/4.1	29	840			844.0 bedg 75°		
		NT	NT	NT	451 32	lt grey massive	843.2								
845								1.8/3.8	47			75	NOTE: highly broken or no		
						849.8 - 854.0(?)	847.0						core 849.8 - 893.9 &		
		NT	NT	NT	451 33	argillite lt to		1.4/2.8	50				898.5 - 901.6 also		
850						apple green part	849.8			850			cave at begin most runs		
						silf^d, & sericitized	852.0	1.6/2.2	73				864.3 1" qge		
						loc tan bands, calc.	854.0	1.2/2.0	60						
855						854.0(?) - 909.0		0.0/5.1	0						
		NT	NT	NT	451 34	qtzite & loc arg	859.1								
860						qtzite lt to				860					
		NT	NT	NT	451 35	med grey loc		0.3/5.2	06				883.0 smear qge // core		
						silf^d. loc calc	864.3								
865						tan bands.	865.3	0.3/1.0	50						
		NT	NT	NT	451 36			0.5/3.3	15						
							868.6								
870										870			879.0 bedg 65°		
		NT	NT	NT	451 37			0.7/4.4	16						
							873.0								
875								0.4/4.0	10						
							877.0								
		0.1	NT	NT	451 38			0.4/2.3	17						
							879.3					65			
880										880					
		NT	NT	NT	451 39			0.5/3.7	08						
							883.0								
885								0.4/4.2	10						
		NT	NT	NT	451 40		887.2								
890										890					

ASSAYS - SLUDGE Intercept	WL	Ag	Pb	Zn	No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
890										890		898.5 scatt gge		
		NT	NT	NT	451 41			1.0/6.7	15					
						909.0 - 943.6	893.9							
895						arg. qtzite & arg.	896.0	2.0/2.1	95					
						lt. grey. irr tan	898.5	2.0/2.5	80					
						streaks calc.	899.5	0.8/1.0	80					
							900.0	0.2/0.2	100	900		905.0 - 906.0 abundant		
							901.6	1.1/1.6	69			scatt gge		
							904.3	2.3/2.7	93			906.0 bedg 70° irr		
905								2.9/4.7	62		70			
		NT	NT	NT	451 42									
910						NOTE. CORE BEYOND	909.0			910		909.0 -		
							909.8	0.0/0.8						
		NT	NT	NT	451 43	1923' CONSISTS	911.1	0.4/1.3	31			highly fract. core		
						PRED. OF ROUNDED	913.2	0.6/2.1	29			w/ some rounded		
915						FRAGS. A PORTION		0.8/4.3	19			frags. sludge		
		NT	NT	NT	451 44	OF CORE REC'D	917.5					fine-no gge.		
920						IS CAVE FROM		0.5/5.5	9	920		cave loss		
						AROUND 700'	923.0					may indicate		
		NT	NT	NT	451 45							faulting (OSBURN?)		
925														
		NT	NT	NT	451 46			0.1/14.1	0.7					
930										930				
		0.4	NT	NT	451 47									
935														
		NT	NT	NT	451 48		937.1							
940						943.6 - arg.		0.5/6.5	8	940				
		NT	NT	NT	451 49	ppl. & arg. qtzite								
						lt. grn-gry. loc.	943.6							
945						highly sericitic								
		NT	NT	NT	451 50	& loc. calc. tan		1.2/8.4	14					
950						streaking				950				
						pred ppl arg.	952.0							
		NT	NT	NT	451 51	after 1045.0'								
955														
		NT	NT	NT	451 52									
960										960				

Form MF-104 (Rev.)
(April 1952)

Revised
Budget Bureau No. 42-R1036.5

NOV 6 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1959 Docket No. DMEA 4712 Contract No. DMI-B 1131
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		10,921.80	10,921.80		10921.80	10921.80
~~Building~~ D.D. Stations		3,500.00	3,500.00		3500.00	3500.00
Crosscutting / Drifting	6,656.00	129,320.00	135,976.00	6656.00	129320.00	135976.00
D.D. Incidentals		672.80	672.80		672.80	672.80
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	1,324.05	27,235.95	28,560.00	1324.05	27235.95	28,560.00
Explosives						
Pipe						
~~Track~~ Car Sidings	117.00	5,902.65	6,019.65	117.00	5902.65	6019.65
Rock Bolting	136.50	3,664.50	3,801.00	136.50	3664.50	3801.00
Core Boxes	51.00	265.20	316.20	51.00	265.20	316.20
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	24.00	377.00	401.00	24.00	377.00	401.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	8,308.55	181,859.90	190,168.45	8308.55	181859.90	190,168.45

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Oct. 16, 1959 *Payee American Smelting and Refining Co.

Per J. L. Kinsey Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4154.28

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 11/2/59 Vou. No. 2330
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldok Title Mining Engr. Date Oct. 22, 1959

APPROVAL BY ~~DMEA~~ OME EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing L. Agnew Title Acting Exec. Date 10-28-59

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

~~Revised~~

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting - Crosscutting	Foot	6,656.00	166.4	135,976.00	3399.4	40.00	12,485	40.00
~~Crosscutting~~ Timbering	Foot	1,324.05	126.1	28,560.00	2720	10.50	3,950	10.50
~~Raising~~ Rock Bolting	Each	136.50	39	3,801.00	1086	3.50	4,000	3.50
~~Shafting~~ Car Sidings	Foot	117.00	260	6,019.65	13,377	.45	14,800	.45
~~Winzes~~ D.D.Stations	"			3,500.00	100	35.00	300	35.00
Drilling: Core AX or lar.	"			10,921.80	1682	6.49	11,855	6.60
~~Chum~~ EX	"							6.40
~~Auger~~ Incid.	"			672.80	1682	.40		.40
~~Stripping~~ Core Boxes	Each	51.00	15	316.20	93	3.40	290	3.40
~~Trenching~~ Assaying	Det.	24.00	24	401.00	401	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		8,308.55		190,168.45				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		8,308.55		190,168.45				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Oct. 16, 1959 Operator American Smelting and Refining Company

Per J. L. Kiesow Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Stephen W. Foldok
Mining Eng.

NOV 6 1959
O.M.E.

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
September 15, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT - AUGUST 1959

In the East Page Drive, advance in August was 126.1 feet, for a total to date of 3,146.1 feet. In 714 XCN, advance was 40.3 feet, for a total of 221.8 feet. In both headings, the rocks continued to be dark-grey to purple argillites and light-grey to purple quartzites and argillaceous quartzites. The bedding and several minor bedding-plane faults strike east and dip steeply north and south. Occasional thin discontinuous quartz stringers are exposed.

DDH 30-767 was advanced 201 feet from 332 to 533 feet, bringing the total drill footage in the project to 2,264. Core from the footage drilled is predominantly light-grey quartzite with minor purple bands, and the remainder is grey to green to purple argillite and argillaceous quartzite. Bedding is at a large angle to the core. Throughout the month, the contractor experienced great difficulty resulting from caving ground, and had to follow the bit closely with casing. However recognizable faulting is confined to the following footages: 292 to 299; 442 to 450; 528 to 535. No mineralization has been intersected.

A plan showing the geology of the work is on Plate 1. Core logs for footage 260 to 540 are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, Geology of Advance
in East Page Drive and DDH 30-767N - - 1" = 50'

Core Logs, DDH 30-767, 260' to 540'

ASSAYS - SLUDGE Intercept	Wt.	Ag	Pb	Zn	No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
										260					
							263.0								
								4.6/5.0	92				266.0' several Fe stained slick. at 65°		
							268.0								
								4.2/4.5	93	270			273.0' Bedding at 65°		
							272.5								
						+ 4.8		4.8/4.5	107			65°			
							277.0								
						277.0'-292.0' Qtzite Gry-green to apple green with some thin ppl. bands. Med.gr. Thin beds of green arg. in first 6 ft. locally argillaceous. Rock generally shattered	280.0	1.9/3.0	63	280					
								7.0/8.7	80						
							288.7						288.0' Some gge. Prob. strong slip		
										290		80	290.0' Bdg at 80°		
								6.0/7.6	79				292.0'-299.0' Broken and gougey Prob. flt. zone		
295						292.0'-321.0' Arg. qtzite generally ppl. with some apple green sections Med.gr. Rock generally broken down to pea size.	296.3								
		0.3	NT	NT	45101			3.0/6.0	50	300					
300							302.3								
		Tr	NT	NT	45102			2.0/3.0	67				304.0' Bdg at 65°		
305							305.3					65			
		Tr	NT	NT	45103		308.3	1.2/3.0	40				307.0-311.0' Much sand (sludge)		
310										310					
							311.5	1.6/3.2	50						
		Tr	NT	NT	45104		314.1	0.0/2.6	0				315.0' Bdg at 65°		
315								3.5/3.6	97			65	314.0-321.0' Locally gougey		
							317.7								
								3.0/3.8	79	320					
						321.0'-342.6' Arg. Qtzite Gry.-green to apple green. Broken, some gougey mat'l	321.5								
							324.7	2.0/3.2	63						
325															
								1.0/7.5	13						
330										330					

TO ACCOMPANY Memo
Dated: Sept. 15, 1954
By: S. N. R.
Filed:

ASSAYS - SLUDGE Intercept	Wt.	Ag	Pb	Zn	No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS.	ASSAYS - CORE Intercept	% Recov.
330										330					
		TR	NT	NT	45/105		332.2								
							334.1	0.5/1.9	26						
335							336.0	1.8/1.9	95						
							338.1	1.7/2.1	81						
340						342.6'-365.0' qtzite	339.5	1.3/1.4	93	340					
		TR	NT	NT	45/106	lt.gry f.g. mass.	342.5	3.0/3.0	100			75			
345								1.5/56	27				341.0' 2" qge @ 75° scattered qge to 343.0'		
		TR	NT	NT	45/107		348.1								
350								5.0/4.9	102	350					
							353.0								
355							353.0	1.5/2.0	75				354.0' qqyd shattered		
		TR	NT	NT	45/108		357.7	1.3/2.7	48						
							359.3	1.8/1.6	112						
360										360					
		TR	NT	NT	45/109		362.6	1.2/3.3	36						
						365.0'-397.0' qtzite							367.0' qge. wk		
365								4.0/4.4	91						
						grey-grn slightly	367.0								
370						arg. f.g. core	370.2	1.0/3.2	31	370					
						broken. Loc. thin							371.0' qge wk		
						bd'd, calc. lt tan									
						streaks ∥ bdg at									
375						end intept.		3.5/9.2	38						
380							379.4			380			379.0-382.0 core		
								2.5/4.3	76				broken fine		
							382.7					80			
							384.2	3.0/6	187						
385								2.5/4.1					382.0' bdg. 80°		
		TR	NT	NT	45/110		388.4		61						
390										390					
		TR	NT	NT	45/111										
								1.2/8.8	14						
395						397.0'-402.0' qtzite									
						ppl grey slight	397.2						13x CORE ↓		
						arg., white & calc		3.0/4.3	70						
400						on fract. (calcite)	401.5			400					

ASSAY - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	WL	Ag	Pb	Zn	Nb	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%			X	VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						402.0'-405.0' Argillite Occ. tan streaks	401.5			400									
						gry-green. calc.	404.6	2.1/3.1	67				404.0'-428.0' Rock broken						
405						405.0'-436.0' Purple	406.4	2.0/1.8	111				to about pea size						
		TR	NT	NT	45112	Argillite with minor	407.9	1.0/1.0	100										
410						arg. qtzite, with		0.0/4.4	0	410									
						some gry-grn. arg.	411.8												
		TR	NT	NT	45113	Occ. tan streaks calc.		0.9/4.2	22										
415						(407.4 - 411.8 core	416.0												
						barrel broke)		1.4/4.4	32										
420							420.4			420									
								1.1/4.9	23										
425							425.3												
		TR	NT	NT	45114			0.9/3.4	26										
							428.7												
430								3.4/4.3	79	430			430.0' Bdg at 65°						
							433.0												
							434.5	0.8/1.5	53										
						436.0'-462.0' Arg. qtzite		2.3/3.0	77										
						and argillite. Gry-grn	437.5												
						Occ. tan streaks calc.		4.0/4.9	82	440			440.0' Bdg at 70°						
							442.4						442.0'-450.0' Core is						
								3.0/4.5	67				highly fractured. Very						
							446.9					80-90	flakey. Occ. gge.						
								2.0/3.4	59				slickensides on bdg(?)						
							450.3			450			at 80°-90°						
							452.2	1.7/1.0	85										
							453.7	0.8/0.8	63										
								2.3/3.9	59										
							457.0												
							458.6	2.0/1.6	125										
								2.3/4.4	52	460									
						462.0'-513.0 Qtzite	463.0						463.0' 3" gge						
						lt grey to gry-grn.													
						Locally argillaceous		2.6/4.0	65										
						w/ thin beds grn arg.	467.0												
								3.9/3.8	97	470			470.0' Bdg at 75°						
							470.8					75							

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE		
Intercept	WL	Ag	Pb	Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.	
							470.8			470						
								4.5/4.2	107				472.0' Shearing + scattered gge. Some broken and scattered qtz.			
							475.0 / 476.4	1.4/1.4	100				475.0' Thin gge parallel to core			
								3.0/4.6	65							
							481.0			480						
								2.4/4.0	60							
485							485.0									
		TR	NT	NT	45115			1.0/5.0	20							
490							490.0			490						
		TR	NT	NT	45118			1.1/3.7	30							
							493.7									
495							496.0	1.8/2.3	43							
		TR	NT	NT	45119	513.0 - 554.0 qtzite & arg qtzite. lt grey & arg. lt grn. lesippl.	498.0	1.9/2.0								
500								4.2/5.0	84	500						
						540.-542. lt ppl qtzite.	503.0						505.0 bedg 70°			
						occ irreg tan calc streak.		5.0/6.9	72				508.0 ≈ 1/2" gge on bedg 70°			
							509.9 / 510.5	0.5/0.6	83	510		70				
						±1.6		2.2/3.2	69				513.0 - 517.0 angular core frags 1/8" - 1/2" size.			
							513.7 / 514.3	0.6/0.6	67							
515							515.1 / 515.6	0.5/0.6	83							
							516.6 / 517.0	0.4/0.6	67							
							517.0 / 517.5	0.5/0.6	83							
		Tr	NT	NT	45116		518.5	1.5/1.5	150							
520							520.8	1.1/2.3	48	520		58°	518.0 bedg 58°			
		Tr	NT	NT	45117		521.4	0.6/0.6	100							
							522.1	0.6/0.6	90							
							523.0	0.6/0.9	90							
525								1.8/5.0	36				528.0 - 532.5 gge breccia one slick ∥ to core			
		Tr	NT	NT	45120		528.0									
530								1.5/4.5	33	530			534.5 - 535.0 shattered core occ. gge ox. coated slips irr but ≈ ∥ core.			
							532.5 / 533.3	0.8/1.0	80							
		Tr	NT	NT	45121		534.0 / 535.0	0.8/1.0	80							
535							535.0	0.9/1.0	90							
							536.6	1.0/1.0	100			50	536.0' bedg 50°			
					45122		538.1	0.5/2.1	24							
540		Tr	NT	NT			540.1	0.7/2.0	35	540			538.1 - 540.6 occ. scattered gge			
							541.5	1.2/1.0	150			48				

Revised

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1959 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		10,921.80	10,921.80		10921.80	10921.80
~~Building~~ D.D. Stations		3,500.00	3,500.00		3500.00	3500.00
Crosscutting }	5,980.00	123,340.00	129,320.00	5980.00	123340.00	129320.00
Drifting }						
D.D. Incidentals		672.80	672.80		672.80	672.80
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timbering	1,331.40	25,904.55	27,235.95	1331.40	25904.55	27,235.95
Explosives						
Pipe						
~~Track~~ Car Sidings		5,902.65	5,902.65		5902.65	5902.65
Rock Bolting	133.00	3,531.50	3,664.50	133.00	3531.50	3664.50
Core Boxes	40.80	224.40	265.20	40.80	224.40	265.20
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	10.00	367.00	377.00	10.00	367.00	377.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	7,495.20	174,364.70	181,859.90	7495.20	174364.70	181,859.90

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Oct. 16, 1959 *Payee American Smelting and Refining Co.

Per J. L. Kinsor Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 374760

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 11/2/59 Vou. No. 2330
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6-1134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldok Title Mining Engr. Date Oct. 22, 1959

APPROVAL BY ~~DMEA~~ CMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing L. Agnew Title Acting Exec. Date 10-28-59

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 440 Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	5,980.00	149.5	129,320.00	3233	40.00	12,485	40.00
~~Crosscutting~~ Timbering	"	1,331.40	126.8	27,235.95	2593.9	10.50	3,950	10.50
~~Raising~~ Rock Bolting	Each	133.00	38	3,664.50	1047	3.50	4,000	3.50
~~Shafts~~ Car Sidings	Foot			5,902.65	13,117	.45	14,800	.45
~~Winzes~~ D.D.Stations	Foot			3,500.00	100	35.00	300	35.00
Drilling: Core AX or lar.	"			10,921.80	1682	6.49		6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"			672.80	1682	.40		.40
~~Stripping~~ Core Boxes	Each	40.80	12	265.20	78	3.40	290	3.40
~~Trenching~~ Assaying	Det.	10.00	10	377.00	377	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		7,495.20		181,859.90				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		7,495.20		181,859.90				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Oct. 16, 1959 Operator American Smelting and Refining Company

Per J. L. Kieser Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Stephen W. Zoldok
Mining Engr.

NOV 6 1959
O.M.E.

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Form MF-104 (Rev.)
(April 1952)

Revised

Budget Bureau No. 42-R1036.5

NOV 6 1959 O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:		Adj. to Audit			Adj. to Audit	
Drilling	864.60	10,057.20	10,921.80	864.60	10,057.20	10921.80
~~Bulldozing~~ DD Stations		3,500.00	3,500.00		3,500.00	3500.00
Crosscutting / Drifting	6,220.00	117,120.00	123,340.00	6220.00	117,120.00	123340.00
D.D. Incidentals	52.40	620.40	672.80	52.40	620.40	672.80
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber ing	738.15	25,166.40	25,904.55	738.15	25166.40	25,904.55
Explosives						
Pipe						
~~Track~~ Car Sidings		5,902.65	5,902.65		5902.65	5902.65
Rock Bolting	479.50	3,052.00	3,531.50	479.50	3052.00	3531.50
Core Boxes	13.60	210.80	224.40	13.60	210.80	224.40
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	186.00	181.00	367.00	186.00	181.00	367.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	8,554.25	165,810.45	174,364.70	8554.25	165,810.45	174364.70

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Oct. 16, 1959 Payee American Smelting and Refining Co.

Per J. C. Kinsor Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 427712

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 11/2/59 Vou. No. 2880

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Foldok Title Mining Eng. Date Oct. 22, 1959

APPROVAL BY ~~DMEA~~ OME EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing L. Agnew Title Acting Exec. Date 10-28-59

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

Revised

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name American Smelting and Refining Company Minerals Lead and Zinc

Address Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting-Crosscutting	Foot	6,220.00	155.5	123,340.00	3083.5	40.00	12,485	40.00
~~Crosscutting~~ Timbering	"	738.15	70.3	25,904.55	2467.1	10.50	3,950	10.50
~~Raising~~ Rock Bolting	Each	479.50	137	3,531.50	1009	3.50	4,000	3.50
~~Shafts~~ Car Sidings	Foot			5,902.65	13,117	.45	14,800	.45
~~Winzes~~ DD Stations	"			3,500.00	100	35.00	300	35.00
Drilling: Core AX or Lar.	"	864.60	131	10,921.80	1682	6.49		6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"	52.40	131	672.80	1682	.40		.40
~~Stripping~~ Core Boxes	Each	13.60	4	224.40	66	3.40	290	3.40
~~Trenching~~ Assaying	Det.	186.00	186	367.00	367	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		8,554.25		174,364.70				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		8,554.25		174,364.70				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Oct. 16, 1959 Operator American Smelting and Refining Company

Per J. C. Hoover Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Stephen W. Zoldok
Mining Engr.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Form MT-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1636.5

SEP 11 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1959 Docket No. DMEA 4712 Contract No. DM-E 1[illegible]
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York, N.Y. c/o Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				9/17/59 [illegible]		
Drilling ~~[illegible]~~	1,924.42	11,228.65	13,153.07	1924.42	11,228.65	13,153.07
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,493.51	79,530.89	83,024.40	3493.51	79530.89	83024.40
Supervision	152.50	4,450.37	4,602.87	152.50	4450.37	4602.87
Technical Services	169.00	3,600.00	3,769.00	169.00	3600.00	3769.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,143.76	21,716.59	22,860.35	1143.76	22094.59	23238.35
Explosives	895.60	20,200.17	21,095.77	895.60	20200.17	21095.77
Pipe	685.84	21,942.47	22,628.31	685.84	21942.47	22628.31
Track	781.93	9,813.67	10,595.60	781.93	9813.67	10595.60
Other	503.84	12,969.76	13,473.60	503.84	12969.76	13473.60
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	211.90	3,980.88	4,192.78	211.90	3980.88	4192.78
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	377.98	3,747.12	4,125.10	377.98	3747.12	4125.10
Sampling and Analysis	10.00	436.00	446.00	10.00	436.00	446.00
Payroll Taxes	211.54	3,546.78	3,758.32	211.54	3546.78	3758.32
Liability Insurance	68.10	2,073.97	2,142.07	68.10	2073.97	2142.07
Other	4,162.16	78,901.40	83,063.56	4162.16	78901.40	83063.56
(8) Contingencies (specify): Leasing Plant Zinc Mill				5372.76	103899.57	109270.03
TOTALS	14,792.08	278,138.72	292,930.80	9419.62	174619.15	184038.77

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Aug. 20, 1959 *Payee American Smelting and Refining Co.

Per J. C. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4709.81

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 9/4/59 Vou. No. 2217

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /S/ Stephen W. Goldock Title Mining Engr. Date 8-24-59

APPROVAL BY ~~DMEA~~ DME EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weissenborn Title Exec Officer Date Sept. 4, 1959

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 195 9 Docket No. DMEA 4712 Contract No. IDM-S 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York, N.Y. c/o Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	10,063.42	149.5	202,991.64	3,233	62.79	12,485	40.00
~~Crosscuttings~~ DD Stations	"			5,439.73	116.9 a	46.53	300	35.00
~~Raisings~~ Timbering	"	2,575.89	126.8	52,590.90	2,593.9	20.27	3,950	10.50
~~Shafts~~ Rock Bolting	Each	161.59	38	7,217.93	1,445 b	5.00	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.			10,097.12	13,116	.77	14,800	.45
Drilling: Core AX or Lar.	Foot	1,924.42	283	13,153.07	2,014	6.53		6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"			636.02	2,014	.32		.40
~~Stripping~~ Core Boxes	Each	56.76	12	358.39	78	4.59	290	3.40
~~Trenching~~ Assaying	Det.	10.00	10	446.00	377	1.18	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		14,792.08		292,930.80				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		14,792.08		292,930.80				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date August 20, 1959 Operator American Smelting and Refining Company

Per J. L. Hooper Title Manager

REMARKS:
a - 100 feet allowable under contract.
b - 1,047 rock bolts allowable under contract.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

8-24-59
1st Stephen W. Goldsk

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1959 | Docket No. DMEA 4712 | Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company | Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	9201	223756	232957
Bits	14465	343165	357630
Hose and Fittings		35004	35004
Other		1859	1859
Total Drilling	23666	603784	627450
Rock Bolting:			
Bolts 4'		-	
Bolts 6'	7106	309211	316317
Total Rock Bolts	7106	309211	316317
Other Supplies:			
Cap Lamps	1144	20019	21163
Hand Tools	750	14243	14993
Miscellaneous	6297	84458	90755
Total Other Supplies	8191	118720	126911
Power:			
Lighting	194	4054	4248
Auxiliary Ventilation	512	11980	12492
Compressed Air	10715	249227	259942
Total Power	11421	265261	276682
Total Category 3 - Other Supplies	50384	1296976	1347360
Category 7 - Other:			
Underground Haulage	110044	2150406	2261450
Interior Hoisting	-	121500	121500
Main Hoisting	104416	1877511	1981927
Surface Haulage	14520	245746	260266
Drainage	8689	363276	371965
Main Ventilation	1476	162962	164438
Life Insurance	5754	109705	115459
Health and Accident Insurance	21990	404916	426906
Vacation Allowances	24189	413372	437561
Holidays	27150	322099	349249
Pension Accruals	71028	1273691	1344719
Dry Room	3825	119872	123697
First Aid	3906	25885	29791
Medical-Surgical	11515	127443	138958
Timekeeping and Warehouse	6714	171756	178470
Total Category 7 - Other	416216	7890140	8306356

Wallace, Idaho
August 14, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT -- JULY 1959

In the East Page Drive, advance in July was 95.3 feet, for a total to date of 3,020.0 feet. In 714 XCN, advance was 22.7 feet, for a total of 181.5 feet. A new crosscut, 706 XCS, was started, and advance was 31.5 feet. All three openings continued to penetrate dark-grey to purple argillites and light-grey, argillaceous quartzites. The bedding and minor bedding-plane faults strike east and dip north and south. Occasional, discontinuous, quartz stringers less than 3/4 of an inch wide occur along bedding-plane partings.

DDH 30-767N was resumed by a new contractor and advanced from 49 to 332 feet, bringing the total drilling to date to 2,063 feet. The hole penetrated dark-grey to purple argillites and light-grey quartzites and argillaceous quartzites. A strong fault zone was encountered at footage 209.5 to 217.5 and weak fault and breccia zones at footages 152.0 to 154.5 and 224.5 to 225.5. In the last 60 feet of advance, the core from which has not yet been logged, the rock penetrated appears to be made up of a larger proportion of grey to grey-green quartzite, and a smaller proportion of darker, argillaceous rocks.

A plan showing the geology of the work is on Plate 1. Core logs for part of DDH 30-767N are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, Geology of Advance in East Page Drive and DDH 30-767N - - 1" = 50'

Core Logs, DDH 30-767N, 0' to 273'

PAJARI - 202' - N2W -10°

American Smelting and Refining Company
DIAMOND DRILL HOLE LOG

Sheet 1 of

Property: PAGE
Location: 3070 EAST PAGE DRIVE
Coord.-Collar E 12,327
N 8,239
Elev.-Collar
Date-Started: June 18/59
Completed

Hole No. DDH 30-761N
Bearing: N
Inclination: -6°
Length
Core Size: NX
Logged by: SHH-DMF

ASSAYS - SLUDGE: Intercept	Wt.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	<	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
									10.5'-28.0' numerous bedding slips.		
		10.5'-28.0' arg. ppl. to grn. with thin beds of argillaceous qtzite and qtzite, also ppl. in color.	10.5			10					
				3.0/3.5	86						
			14.0					80	15' bdg. at 80°		
				3.5/4.0	88			65	16' bdg. at 65°		
			18.0								
				5.0/5.0	100	20					
			23.0								
				2.7/3.0	90						
			26.0								
		28.0'-68.0' qtzite lt. grey, locally ppl. also thin bands of ppl. & green argillite	28.0	1.5/2.0	75						
				1.8/2.0	60	30					
			31.0								
			32.0	2.2/2.0	110			75	33' bdg. at 75°		
				3.0/5.0	60						
			38.0								
				2.6/3.0	87	40		75	40' bdg. at 75°		
			41.0								
				3.0/3.0	100						
			44.0								
				4.2/5.0	84						
			49.0								
			51.0	5.0/5.0	100	50					

TO ACCOMPANY Memo
Dated: July 14/59
By: SHK
Filed:

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Ag	Pb	Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
										50									
							51.0 / 52.0	0.9 / 1.0	90										
												80	54.0 bdg. at 80°						
								3.3 / 6.0	55										
							58.0												
47-[illegible]																			
								3.7 / 7.0	53	60									
65							65.0												
		0.7	NT	NT	45088		68.0	0.8 / 3.0	27										
70						68.0 - 95.0'	70.0	1.6 / 2.0	80	70									
						Qtzite, lt. gry	71.5	1.2 / 1.5	80				71.5 several breccias ± 2"						
No						slightly purplish	73.0	1.2 / 1.5	80				shear zone ?						
75						locally argillaceous	75.0	1.8 / 2.0	90										
		T=	NT	NT	45089		77.0	1.7 / 2.0	85										
							79.0	0.8 / 2.0	40										
80							81.0	1.9 / 2.0	95	80									
							83.0	1.6 / 2.0	80										
							85.0	1.5 / 2.0	75										
							87.0	1.9 / 2.0	95										
							89.0	1.5 / 2.0	75										
							91.0	1.2 / 2.0	60	90									
							94.0	2.5 / 3.0	83										
95						95.0 - 104.0'	95.0	1.8 / 1.8	130										
		"	"	"	45090	Argillite, purple and	97.5	1.8 / 2.5	72										
100						greenish gry		2.0 / 6.5	31	100									
		"	"	"	45091														
						104.0 - 143.0'	104.0												
105						Qtzite argillaceous	106.5	1.7 / 2.5	68										
						and argillite,	108.5	1.7 / 2.0	85										
						grey locally purple,				110									
						locally slightly sandy		5.0 / 7.5	67										
115						Argillite predominantly	116.0												
		"	"	"	45092	purple		2.0 / 4.5	44										
120							120.5			120		80	120' bdg. at 80°						

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Ag	Pb	Zn	No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
120							120.5			120									
		T-	NT	NT	85093			1.0/3.0	33										
							123.5												
125								2.4/4.0	60										
							127.5												
								3.0/4.0	75	130		85	130 bdg at 85°						
							131.5												
							~~132.5~~	~~9.0/1.0~~	~~90~~										
								3.3/5.0	66										
135																			
		"	"	"	85094		137.5												
140										140									
								1.5/5.0	30										
							142.5												
		"	"	"	85095	143.0'-164.0'							143.0-148.0' shattered						
145						Argillaceous qtzite		3.5/6.0	58				core, some gouge						
						lt grey to purplish							and breccia						
						Becomes sandy and	148.5												
						bleached				150									
								4.5/6.0	75				152'-154.5' Fault breccia						
						Grades into argillite													
						at end of interval.	154.5												
								3.5/5.5	64										
												80	158.0' bdg at 80°						
							160.0			160									
								4.0/5.0	80										
						164.0'-175.0'	165.0												
						Argillite dark		4.2/5.0	84										
						grey, purple, and													
						green.	170.0			170			170.0' bdg. at 75°						
								3.8/5.0	76										
						175.0-179.0'	175.0												
						Arg. qtzite, lt. grey		4.8/5.0	96										
						179.0'-195.0'	180.0			180									
						Argillite and		4.5/5.0	90			10°	181.0' several slickensides						
						arg. qtzite. Purple							at 10°. Small amt.						
						to medium grey	185.0						187.0 scattered gouge						
								3.7/5.0	74										
							190.0			190		70	190.0 bdg. at 70°						

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	Ag	Pb	Zn	No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
							190.0			190									
						+1.2		4.0/5.0	80										
												80° 20°	194.0' Weak flt. at 80°, another at 20°						
						195.0'-245.0' Qtzite Lt. grey to purplish Becomes sandy and argillaceous in last 10 feet.	195.0	4.8/5.0	96										
							200.0			200									
								3.5/5.0	70										
							205.0												
								4.3/5.5	78										
							210.5			210		50°	209.5'-210.5' Breccia and gge. at 50°(?)						
								1.9/3.5	54										
							214.0						210.5-217.5' Breccia and gge. At 216.0' angle is 20°. Other slickensides, very irreg.						
215								2.5/3.5	71			20°							
		Tr	NT	NT	45096		217.5												
								0.0/3.0	0										
220							220.5			220									
no sample																			
								3.5/5.0	70				224.5-225.5' Frac. and slightly gougey core.						
225							225.5												
		"	"	"	45097			2.0/4.5	44										
230							230.0			230		20°	225.5'-230.5' Intermittent gge and breccia 3" of gritty gge. at 230.5' at 20°						
								1.9/3.5	37										
							233.5												
235						+0.4		2.5/4.0	63										
							237.5					60°							
							240.0	1.7/2.5	68	240			233.0'-258.5' weakly frac. core. Occ. gge and slick. 60° at 236.0' 65° at 237.0 2" gritty gge at 239.0 slick. at 65° at 239.5' 3/4" gritty gge at 258.0'						
								3.2/5.5	58										
						245.0'- Qtzite Lt. grey. Thin arg. beds at 272.5' and 277.0'. Qtzite locally bleached and sandy	245.5												
245								1.2/4.5	27										
		"	"	"	45098		250.0			250									
250								1.0/3.0	33										
		"	"	"	45099		253.0												
255								1.5/5.0	30										
		"	"	"	45100		258.0												
260								4.7/5.0	94	260									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
										260									
							263.0												
								4.6 / 5.0	92				266.0' several Fe stained slick. at 65°						
							268.0												
								4.2 / 4.5	93	270			273.0' Bedding at 65°						
							272.5												
						+ 4.8													
										280									
										290									
										300									
										310									
										320									
						332.0													
										330									

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1201 N. Division St.
Spokane 2, Washington

August 7, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 14 1959

DATE	INITIALS	CODE
8-14	gad	220
"		110
8/17		800
"		800

MEMORANDUM

To: OME Field Team, Region I

From: S. W. Zoldok, Mining Engineer, Bureau of Mines

Subject: Interim inspection report, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The project was inspected August 5, 1959, accompanied by Mr. Troy Tower, superintendent. The previous inspection was made on June 25, 1959, by R. D. Sample, U. S. Geological Survey.

The mine continues to operate on a 4-day per week basis.

The 3070 level east drive is still in thin bedded argillaceous quartzites striking parallel with the drift and dipping almost vertically. Timber is being carried to within 5 feet of the face.

No mineralization has been disclosed in the drift or diamond drill holes.

Contract Measurements (3070 DE)

Drifting:

Previously reported to Sta. No. 1616	2,621.82 ft.
Sta. No. 1616 to face	409.00 "
Total advance to 8-4-59	3,030.82 ft.

Timbering:

Last set measured April 10, 1959 was at Sta. No. 1612 + 479.00 ft. for a total of 2,101.03 ft.

Sta. No. 1612 to 1613	136.37 ft.
Sta. No. 1613 to 1614	110.39 ft.
Sta. No. 1614 to 1615	116.47 ft.
Sta. No. 1615 to 1616	111.50 ft.
Total	474.73 ft.

New measuring point is at Sta. No. 1616 / 4.27 ft.

Previous timber advance reported	2,101.03 ft.
Sta. No. 1616 - last set 399 ft.	
Advance - 399 - 4.27	394.73 "
Total timber in 3070 DE to 8-5-59	2,495.76 ft.

714 XCN (No. 1 XCN) (Coordinate 12,880 E)

This crosscut has been advanced 181.5 feet to the north. The first 64.5 feet is fully timbered, the next 102 feet is rock bolted (184 bolts) and the last 15 feet is bald.

	Drifting	Timber	Rock Bolts
I.P. to 64.5'	64.5 ft.	64.5 ft.	-
64.5' to 166.5'	102.0 ft.	-	184.0 1/
166.5' to 181.5'	15.0 ft.	-	-
Totals to 8-5-59	181.5 ft.	64.5 ft.	184.0 1/

1/ There are 20.4 five-foot sections in 102 feet and maximum allowable bolts are 20.4 x 7 = 142.8. If necessary, an adjustment will be made as the crosscut is advanced.

706 XCS (No. 1 XCS) (Sta. No. 1616 / 235 ft.).

This crosscut is not surveyed in yet.

	Drifting	Timber	Rock Bolts
I.P. to 29.5'	29.5'	29.5 ft.	none
29.5' to 31.5'(face)	2.0'	-	-
Totals to 8-5-59	31.5 ft.	29.5 ft.	none

Car siding excavations:

Previously reported	13,463 cu.ft.
At Sta. No. 1616 / 7 ft.	260 " "
At 706 XCS / 35 ft.	175 " "
Totals to 8-5-59	13,898 cu.ft.

Diamond drilling:

Previously reported (Hole H30-823N)	755 ft.
Hole H30 - 800S	927 "
Hole H30 - 767N	359 "
Totals to 8-5-59	2,041 ft.

Status of contract:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: $174,619.15 (thru June 1959)

Work Item	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	3,243.82 ft.
3070 East drift (3,030.82 ft.)		
714 XCN (No. 1 XCN) 181.5 ft.)		
706 XCS (No. 1 XCS) 31.5 ft.)		
Diamond drill stations	300 ft.	100 ft.
823 XCN (25 ft.)		
800 XCS (25 ft.)		
767 XCN (25 ft.)		
751 XCS (25 ft.)		
Core drilling	11,855 ft.	2,041 ft.
H30 - 823N (755 ft.)		
H30 - 800S (927 ft.)		
H30 - 767N (359 ft.)		
Car siding excavations	14,800 cu.ft.	13,898 cu.ft.
Timbering	3,950 ft.	2,589.76 ft.
3070 East drift (2,495.76 ft.)		
714 XCN (64.50 ft.)		
706 XCS (29.5 ft.)		
Rock bolts	4,000	1,056
3070 East drift (872)		
714 XCN (184)		

S. W. Zoldok

Distribution:
OME (4)
USGS (2)
USBM (AD)
Docket
Zoldok

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

AUG 17 1959
O.M.E.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1959 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. c/o Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				9/17/59 aopk		
Drilling	1,171.45	10,057.20	11,228.65	1171.45	10,057.20	11,228.65
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,307.30	76,223.59	79,530.89	3307.30	76223.59	79530.89
Supervision	145.58	4,304.79	4,450.37	145.58	4304.79	4450.37
Technical Services	338.00	3,262.00	3,600.00	338.00	3263.00	3600.00
(3) Operating Mat'ls. and Supplies:						
Timber	692.11	21,024.48	21,716.59	692.11	21402.48	22094.59
Explosives	933.15	19,267.02	20,200.17	933.15	19267.02	20200.17
Pipe	1,002.78	20,939.69	21,942.47	1002.78	20939.69	21942.47
Track	433.77	9,379.90	9,813.67	433.77	9379.90	9813.67
Other	821.53	12,148.23	12,969.76	821.53	12148.23	12969.76
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	211.90	3,768.98	3,980.88	211.90	3768.98	3980.88
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	533.51	3,213.61	3,747.12	533.51	3213.61	3747.12
Sampling and Analysis	232.50	203.50	436.00	232.50	203.50	436.00
Payroll Taxes	201.12	3,345.66	3,546.78	201.12	3345.66	3546.78
Liability Insurance	81.79	1,992.18	2,073.97	81.79	1992.18	2073.97
Other	3,621.14	75,280.26	78,901.40	3621.14	75280.26	78901.40
(8) Contingencies (specify): Less in Store To Maximum				4918.93	98978.64	103897.57
TOTALS	13,727.63	264,411.09	278,138.72	8208.70	165,810.45	174619.15

I certify that the above bill is correct and just and that payment therefor has not been received.

Date July 16, 1959 *Payee American Smelting and Refining Co.

Per J. C. Kinnear Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4404.35

Signature Lorell F. Long
(Authorized Certifying Officer)

Date 8/13/59 Vou. No. 2312

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldok Title Mining Engr. Date 7-27-59

APPROVAL BY ~~DMEA~~ ONE EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing G. Agnew Title Acting Exec Date 8-3-59

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

AUG 17 1959
M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y., c/o Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	10,131.78	155.5	192,928.22	3083.5	62.57	12,485	40.00
~~Crosscutting~~ DD Stations	"			5,439.73	116.9a	46.53	300	35.00
~~Raising~~ Timbering	"	1,599.70	70.3	50,015.01	2467.1	20.27	3,950	10.50
~~Shafts~~ Rock Bolting	Each	573.28	137	7,056.34	1407b	5.02	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.			10,097.12	13,116	.77	14,800	.45
Drilling: Core AX or lar.	Foot	1,171.45	180	11,228.65	1731	6.49		6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"		180	636.02	1731	.37		.40
~~Stripping~~ Core Boxes	Each	18.92	4	301.63	66	4.57	290	3.40
~~Trenching~~ Assaying	Det.	232.50	186	436.00	367	1.19	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		13,727.63		278,138.72				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		13,727.63		278,138.72				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date July 16, 1959 Operator American Smelting and Refining Company

Per J. L. Kinsor Title Manager

REMARKS:
a - 100 feet allowable under contract.
b - 1009 rock bolts allowable under contract.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

7-27-59
/s/ Stephen W. Foldok
Mining Engr.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

EXTRA COPY
O. M. E.
RECEIVED AUG 17 1959
DATE | INITIALS | CODE

Wallace, Idaho
July 16, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT -- JUNE 1959

In the East Page Drive, advance in June was 70.3 feet, bringing the total to date to 2,924.7 feet. In 714 XCN, advance was 85.2 feet, for a total to date of 158.8 feet. The opening continued in dark-grey to purple argillites and argillaceous quartzites. Near the present face, heavy ground occurs under and between two strong faults which strike N. 25° W. and dip about 80° west. The bedding and minor bedding-plane faults strike east and dip north and south. In the crosscut, the rocks are interbedded purple argillites and grey to purplish quartzites and argillaceous quartzites. The attitude of the bedding is the same as in the East Page Drive.

DDH 30-800S was advanced 131.0 feet to 927.0 feet. The core continued to be quartzite, with a strong fault zone between 770 and 837 feet. There is a locus of faulting at 790 to 796 feet and another, stronger, at 819 to 837 feet. Beyond that footage, the rock is somewhat broken, and at 923 feet a second major fault zone was encountered. Mud and rock fragments twice filled the hole to within 200 feet of the collar, and the hole was stopped at 927 feet. The first fault zone is tentatively identified as the Curlew, the second as the Spring.

DDH 30-767N was collared at about 12,325 E. and had been advanced to 49 feet when drilling contractors terminated their operations. Rocks penetrated are purple argillites and grey to purplish quartzites.

Total diamond drilling to date is 1,731.0 feet.

A plan showing the geology of the work is on Plate 1. Core logs for the last part of DDH 30-800S are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments

Plate 1 - Plan, Geology of Advance in East Page Drive and DDH 30-800S - 1" = 50'

Core Log, DDH 30-800S - - - - - - 820' - 927'

DIETZGEN - NO. 352-107

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	14353	209403	223756
Bits	18410	324755	343165
Hose and Fittings	7212	27792	35004
Other		1859	1859
Total Drilling	39975	563809	603784
Rock Bolting:			
Bolts 4'			
Bolts 6'	25619	283592	309211
Total Rock Bolts	25619	283592	309211
Other Supplies:			
Cap Lamps	1144	18875	20019
Hand Tools	2646	11597	14243
Miscellaneous	2236	82222	84458
Total Other Supplies	6026	112694	118720
Power:			
Lighting	303	3751	4054
Auxiliary Ventilation	580	11400	11980
Compressed Air	9650	239577	249227
Total Power	10533	254728	265261
Total Category 3 - Other Supplies	82153	1214823	1296976
Category 7 - Other:			
Underground Haulage	91277	2059129	2150406
Interior Hoisting		121500	121500
Main Hoisting	81786	1795725	1877511
Surface Haulage	15129	230617	245746
Drainage	13321	349955	363276
Main Ventilation	1612	161350	162962
Life Insurance	5651	104054	109705
Health and Accident Insurance	21475	383441	404916
Vacation Allowances	23359	390013	413372
Holidays	25756	296343	322099
Pension Accruals	66020	1207671	1273691
Dry Room	3644	114228	119872
First Aid	1000	24885	25885
Medical-Surgical	5809	121634	127443
Timekeeping and Warehouse	6275	165481	171756
Total Category 7 - Other	362114	7528026	7890140

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	oz Ag/ton	% Pb	% Zn	Sample No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%			∡	VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.	
						817.0 - 893.0 qtzite lt. grey. sandy (calc alt?) near flt. zones. wk - stng silf? local distinct qtz. strs. 831.0 AX		3.6/6.0	60	820		65	819.0 - 831.0 qge breccia. black slicksds @ 65°, 55°, 75°, 45°, 70°, 65°			
							823.0					85				
								3.5/4.0	87			75				
							827.0					45				
												70				
		831.0 AX						2.4/4.0	60			65	833.0 - 837.0 breccia w/ numerous slicksds.			
							831.0			830						
						848.0 - 850.0 very stng. silf?	833.0	1.5/2.0	75			65	834.0 @ 65°, 835.0 @ 55			
												55				
835								4.0/5.0	80			50	835.0 bdg. @ 50°			
		NT	NT	NT	45073		838.0									
840								1.3/4.0	32	840			846.0 ± 1" qge			
		NT	NT	NT			842.0									
					45074			2.8/4.0	70							
845							846.0					?				
		NT	NT	NT	47075			2.3/4.0	57							
850							850.0			850						
		NT	NT	NT			852.0	1.4/2.0	70							
					47076			1.8/5.0	36							
855							857.0									
		NT	NT	NT	47077			2.7/4.0	67				859.0 bdg 70°			
860							861.0			860		70				
		NT	NT	NT			863.0	1.0/2.0	50							
					47078											
865								1.5/5.0	30							
		NT	NT	NT	47079		868.0									
870								1.4/5.0	28	870			875.0 - 895.0 broken core, slight brecciation occ. slicksds 875.0 - 90°			
		NT	NT	NT			873.0									
					47080											
875								1.6/5.0	32			70	878.0 - 45°			
		NT	NT	NT	47081		878.0						887.0 - 70			
880								1.5/6.0	25	880		45				
						880.0 - 893 - stng silf?										
		NT	NT	NT	47082		884.0						895.0 qge ± 3/4" @?			
885								3.0/5.0	60							
												75	860.0 - 927.0 bedg obscure			
							889.0			890						

TO ACCOMPANY MEMO
Dated: July 16/57
By: S.N. Kesten
Filed:

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	DESCRIPTION	ASSAYS - CORE		
Intercept	Wt.	oz/Ag Ton	% Pb	% Zn	Sample #	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%			VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.	
890							889.0			890		895.0 - 918.0 broke core			
		NT	NT	NT		893.0 - 923.0 qtzite.		3.0/50	60			slight brecciation			
					A5083	lt. grey but	894.0					no slickeds or			
895						slight darker than		1.3/3.0	43			visible gouge.			
		NT	NT	NT	A5084	prev. intcpt. (silf^n)	899.0								
						wk. silf^n w/		1.4/50	47						
900						occ. thin <1/2" qtz	900.0			900					
						strs. random		2.8/50	56						
						orientation	905.0								
								2.8/5.0	56						
910							910.0			910		918.0 - 923.0 scattered			
												qqc. 920.0(?)			
		NT	NT	NT	A5085			1.8/5.0	36			3/4" qqc.			
915							915.0								
		NT	NT	NT	A5086		918.0	1.5/3.0	50						
920								1.0/50		920					
						923.0 - 927.0 qtzite									
		NT	NT	NT	A5087	& qtz. pebbles	923.0								
925						core & cave.		2.5?/40							
						occ. piece ox. qtz.	927.0					END OF HOLE 927.0			
										930					
												NOTE: Mud & rock			
												fragments entered hole			
												and filled almost			
												to collar - SPRING FAULT?			

OME Field Team, Region I

OME Certifying Officer, Region I

American Smelting and Refining Co., Contract [illegible]
Monthly operating report for May 1959

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DATE	INITIALS	CODE
7-23	[illegible]	110
11	[illegible]	110
	[illegible]	500

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

The following adjustments have been made on Form MF-104:

		Adjustments Prior	Adjustments May 1959
Drifting/crosscutting			
Claimed - May	$10,217.95		
Allowable	6,320.00		$3,897.95
Timbering			
Claimed - May	3,098.92		
Allowable	1,563.45		1,535.47
Rock Bolting			
Claimed to date	6,483.06		
Previous Disallow.	2,846.56		
	3,636.50		
872 bolts allowed	3,052.00	584.50	
AX Core Drilling			
Claimed to date	10,057.20		
Previous Disallow.	276.20		
	9,781.00		
1551 ft. allowed	10,057.20	(276.20)	
Core Boxes			
Claimed - May	118.25		
Allowable	85.00		33.25
Incidentals			
Claimed -May	282.20		
Allowable	204.40		77.80
Claimed - Previous	353.82		
Allowable	416.00		
Paid	386.65	(29.35)	

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DATE	INITIALS	CODE

Sampling			
Claimed - May	$ 12.25		
Allowable	7.00		5.25
Claimed - Previous	191.25		
Allowable	174.00	17.25	
Improper allowance on Nov. 1958 voucher		300.00	
		$596.80	$5,549.72
			596.80
Total Disallowance			$6,145.92

Timbering costs have been increased $378.00 to adjust for improper deductions made on the January and April 1958 vouchers for acceptable costs of 108 rock bolts which were replaced by timbering.

The above adjustments are in line with the audit recently completed.

Dorothy Long

cc: OME (2)
USGS (2)
Contract Admin. & Audit Div. (2)
AD

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

JUL 23 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name American Smelting and Refining Company Minerals Lead and Zinc

Address 120 Broadway, New York 5, N.Y. c/o box 440, Wallace, Idaho

Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				7/30/59	20PK	
Drilling	3,144.50	6,912.70	10,057.20	3144.50	6912.70	10057.20
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,896.01	72,327.58	76,223.59	3896.01	72327.58	76223.59
Supervision	250.69	4,054.10	4,304.79	250.69	4054.10	4304.79
Technical Services	266.00	2,996.00	3,262.00	266.00	2996.00	3262.00
(3) Operating Mat'ls. and Supplies:						
Adjusted to audit Timber	1,356.73	19,667.75	21,024.48	328.00 1356.73	19667.75	21402.48
Explosives	965.05	18,301.97	19,267.02	965.05	18301.97	19267.02
Pipe	719.93	20,219.76	20,939.69	719.93	20219.76	20939.69
Track	719.03	8,660.87	9,379.90	719.03	8660.87	9379.90
Other	720.40	11,427.83	12,148.23	720.40	11427.83	12148.23
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	211.90	3,557.08	3,768.98	211.90	3557.08	3768.98
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	116.62	3,096.99	3,213.61	116.62	3096.99	3213.61
Sampling and Analysis	12.25	191.25	203.50	12.25	191.25	203.50
Payroll Taxes	229.24	3,116.42	3,345.66	229.24	3116.42	3345.66
Liability Insurance	91.18	1,901.00	1,992.18	91.18	1901.00	1992.18
Other	4,174.54	71,105.72	75,280.26	4174.54	71105.72	75280.26
(8) Contingencies (specify):						
Freeing Ground of Moisture				6145.22	92832.92	98978.64
TOTALS	16,874.07	247,537.02	264,411.09	11106.15	154704.30	165810.45

I certify that the above bill is correct and just and that payment therefor has not been received.

Date June 18, 1959 *Payee American Smelting and Refining Co.

Per J. L. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5553.08

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 7/15/59 Vou. No. 2364

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6134 in accordance with the terms of the contract.

Signature /s/ Stephen W. Goldock Title Mining Engr. Date June 22, 1959

APPROVAL BY ~~DMEA~~ DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date July 14, 1959

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

JUL 23 1959 O.M.E.

Month of May 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. % Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting—Crosscutting	Foot	10,217.95	158.0	182,796.44	2928	62.43	12,485	40.00
Crosscutting—DD Stations	"			5,439.73	116.9a	46.53	300	35.00
Raising—Timbering	"	3,098.92	148.9	48,415.31	2396.8	20.20	3,950	10.50
Shafts—Rock Bolting	Each			6,483.06	1270b	5.10	4,000	3.50
Winzes—Car Sidings	Cu.Ft.			10,097.12	13,116	.77	14,800	.45
Drilling: Core—AX or lar.	Foot	3,144.50	511	10,057.20	1551	6.48		6.60
Churn—EX	"						11,855	6.40
Auger—Incid.	"	282.20		636.02		.41		.40
Stripping—Core Boxes	Each	118.25	25	282.71	62	4.56	290	3.40
Trenching—Assaying	Det.	12.25	7	203.50	181	1.12	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		16,874.07		264,411.09				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		16,874.07		264,411.09				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 18, 1959 Operator American Smelting and Refining Company

Per J. C. Nieser Title Manager

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

REMARKS:
a - 100 feet allowable under contract.
b - 872 rock bolts allowable under contract.

(Instructions on reverse)

(For Government use only)

/s/ Stephen W. Goldok Mining Engr.
June 22, 1959

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

EXTRA COPY O. M. E. RECEIVED JUL 23 1959		
DATE	INITIALS	CODE

Wallace, Idaho
June 15, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE UNIT
EAST PAGE PROJECT
PROGRESS REPORT - MAY 1959

In the 3070 East Page Drive, advance in May was 84.4 feet, for a total of 2,854.4 feet to date. A crosscut, 714 XCN, was turned off at approximate coordinate 12,880 E. and advanced 73.6 feet. The main drive continued in dark-grey to purplish argillites and argillaceous quartzites, with no appreciable change in bedding attitudes. Bedding plane faults are numerous but discontinuous. The crosscut exposed grey to purplish argillites with occasional thin beds of argillaceous quartzite.

DDH 30-880S advanced 511.0 feet to footage 796.0, bringing the total diamond drilling in the project to 1,551.0 feet. Light-grey quartzites with minor local thin beds of argillite were cut. The angle between bedding and core varies between 65° and 80°. Narrow quartz stringers, some of which are mineralized with coarse pyrite, occur between footages 429 and 650. Silicification was observed in the general vicinity of the quartz. Occasional minor faults were logged with faults of some significance at footages 495 to 507, 544 to 546, 567 to 572.

A plan showing the geology of the work is on Plate 1. Core logs for the relevant portion of the drill hole are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, Geology of Advance in East Page Drive and DDH 30-800S - - - - 1" = 50'

Core Log, DDH 30-800S - - - - - - - - - 260' - 820'

DIETZGEN - NO. 352 107

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	7463	201940	209403
Bits	6575	318180	324755
Hose and Fittings		27792	27792
Other		1859	1859
Total Drilling	14038	549771	563809
Rock Bolting:			
Bolts 4'			
Bolts 6'		283592	283592
Total Rock Bolts		283592	283592
Other Supplies:			
Cap Lamps	1001	17874	18875
Hand Tools	1676	9921	11597
Miscellaneous	40762	41460	82222
Total Other Supplies	43439	69255	112694
Power:			
Lighting	291	3460	3751
Auxiliary Ventilation	863	10537	11400
Compressed Air	13409	226168	239577
Total Power	14563	240165	254728
Total Category 3 - Other Supplies	72040	1142783	1214823
Category 7 - Other:			
Underground Haulage	119711	193918	205629
Interior Hoisting		121500	121500
Main Hoisting	110764	168461	179225
Surface Haulage	15838	214779	230617
Drainage	11906	338049	349955
Main Ventilation	2552	158798	161350
Life Insurance	6813	97241	104054
Health and Accident Insurance	26711	356730	383441
Vacation Allowances	27675	362338	390013
Holidays	776	295567	296343
Pension Accruals	77334	1130337	1207671
Dry Room	4830	111398	116228
First Aid	-24	24909	24885
Medical-Surgical	4963	116671	121634
Timekeeping and Warehouse	7605	157876	165481
Total Category 7 - Other	417454	7110572	7528026

ASSAYS - SLUDGE		DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	WL	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
		269.0 - 315.0 qtzite	260.0			260					
		lt green-grey, num.		3.5/4.0	87			75	261.0 bedding 75°		
		hairlike arg. bnds.	264.0								
		sandy & silf & from.		2.2/3.0	73						
		292.0' - 254.0	267.0					75	267.0 minor bed. fault		
		276.0 - 279.0	269.0	1.6/2.0	80				@ 75°		
		ppl. banding &	272.0	2.1/3.0	70	270		75	271.0 bedding 75°		
		specks.	274.0	1.7/2.0	85			75	274.0 minor bed fault		
		308.0 - 309.0		2.8/3.0	93				@ 75°		
		mod to strg. silf^n.	277.0								
			280.0	2.6/3.0	83	280		75	280.0 bedding 75°		
				1.8/3.0	60						
			283.0								
			284.0	1.8/1.0	100				287.5 ½" gritty qge &		
			285.0	0.7/1.0	70				½" qtz. s.d. @ 73°		
			286.0	0.7/1.0	70						
		310.0 - 313.5 arg.	288.0	1.7/2.0	85			73	on beding		
		lt green		3.4/4.0	85	290					
			292.0					85	292.0 wk flt. scattered		
				4.1/5.0	82				qtz for 2". ppl		
									smeared slickensides		
			297.0						@ 85°		
				2.0/2.0	100						
			299.0			300					
				4.0/5.0	80						
			304.0								
				4.0/4.0	100				306.0 beding 70°		
			308.0						fract cleav.? 55°		
				3.0/3.0	100	310			opp beding.		
			311.0						310.5 3" qge & broken		
		315.0' - 320.0 qtzite	314.0	1.6/3.0	53				rk. on beding 75°		
		very lt grey &	316.0	2.5/2.0	125				314.0 beding 65°		
		greenish grey.		2.2/3.0	73						
		local, hauliite	319.0				XXX		319.0 ± 3 inches		
		delicate banding		3.5/4.0	87	320			broken rk. &		
			323.0					65°	scattered gouge		
			324.0	1.0/1.0	100				323' bdg. at 65°		
				2.3/3.0	77						
			327.0								
				1.8/2.0	90						
			329.0			330					
			332.0	2.4/3.0	80						

TO ACCOMPANY
Dated 7-14-56
By
Filed:

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	OZ Ag per Ton	% Pb	% Zn	Camp No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
										330	X X X		330' approx. 8" broken rock & scattered gg.		
						330.0-495.0 qtzite. lt. grey-lt. gn. occasional detrital hairlike banding locally cse. grained and sandy. 365'-366' green argillite 387'-388' sandy friable white sandstone.	332.0								
335							334.0	1.8/2.0	90						
								3.8/3.0	133						
		TR	N.T.	N.T.	50 SB		337.0								
340							340.0	0.6/3.0	20	340					
							341.0	0.8/1.0	80						
								2.0/2.0	100			65	341 bdg at 65°		
							343.0								
							345.0	1.5/2.0	75						
							347.0	1.2/2.0	60		X X X		346' shattered core & scattered g.g.		
								2.4/4.0	60	350					
							351.0								
								3.0/4.0	75			65	351'-356' scattered gouge, shattered argillaceous rk.		
							355.0					75			
							357.0	1.6/2.0	80				358' bdg. at 65°		
								2.5/4.0	62	360			356' bdg. slips at 75° shattered core with scattered gouge at 356.5'		
							361.0								
								2.0/2.0	100		X X X				
							363.0								
							364.0	2.0/2.0	100			65 75			
								3.0/3.0	100						
							368.0								
								2.8/3.0	93	370			369' fractured, shattered, occas. gouge		
							371.0								
							374.0	2.3/2.0	93				374' gritty gg. at 65° 375' bdg. at 75°		
								2.4/4.0	60						
							378.0								
								2.6/4.0	65	380			381.5' ½" gg. at 75° core broken abv. & below gg.		
							382.0					75			
								3.6/4.0	90						
							385.0								
								3.3/4.0	82						
							390.0			390		75	390.0- bdg. at 75°		
								3.0/3.0	100						
							393.0								
								3.3/5.0	66				397.0 bdg. 70°		
							398.0								
							399.0	0.7/1.0	70			70			
										400					

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
							399.0												
										400									
								2.9/4.0	72				401.0 - 403.0 shattered core						
							403.0												
								2.5/4.0	62										
							407.0												
								3.8/4.0	95										
										410									
							411.0					70							
								3.1/4.0	78				415.0 - 416.0 shattered core						
							415.0												
						415.0' - 416.0' arg. lt. green		3.7/4.0				70							
							419.0						423.0' 1/2" qtz 25°						
										420			423.0 - 425.0 shattered core						
								2.5/4.0											
							423.0					25							
						428.0' - 432.0 interbdd arg & qtzite.	426.0	2.0/3.0	67										
								1.8/3.0	60				429.0' 2" qtz @ 65°						
							429.0												
										430		65	430.0' Arg flt 55°						
								3.4/4.0	85			55	431.0' 1" qtz. 65°						
							433.0					65							
								3.5/4.0	87				437.0 wk flt 25°						
							437.0					25							
								4.5/5.0	90										
										440									
						330.0' - 445.0' quartzite, lt. grey to green, tight, dense, locally cse. grd. & sandy.	442.0												
								2.1/3.0	70										
							445.0												
								3.7/4.0	95										
							449.0												
						450.0 - 451 inter-bedded argillite				450			451.0' - 452.0 shattered core - minor gg.						
								3.6/4.0	95										
							453.0						454.0' minor slip. 25°						
								3.4/4.0	85			25							
							457.0												
								3.9/4.0	97										
						462.0 - 465.5' inter-bedded argillite													
							461.0			460									
								3.8/4.0	95				465.0 bedding 60°						
							465.0					60	1" qtz vein at 60°						
								3.7/4.0	92										
							469.0												
						472.0' - 473.0' minor thin bands of argillite				470									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag / Ton	% Pb	% Zn	Sample No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.
							469.0								
								3.9/4.0	97	470					
							473.0								
								3.5/4.0	87			65°			
							477.0					60°	478.0' 1/4" qtz 25°		
						482.0 486.0 intermediate argillite.		3.5/5.0	70	480			minor slip at 60°		
							482.0								
								3.6/4.0	90				485.0' 0.5' graphitic slip 55°		
						488.0' 490.0 hard	486.0					55°	486.0 bdg. at 65°		
						predeto-mineralized		2.0/4.0					slip ∥ to bdg.		
						argillite	490.0		65	490			492.0' Fe O stain ∥ to bdg.		
490		N.T.	N.T.	N.T.	45059			3.5/3.0	93				494.0 bedding at 75°		
							493.0					75°			
495						495.0 - 507.0 breccia,		3.5/4.0	87				495.0' - 500.0 broken		
		N.T.	N.T.	N.T.	45060	angular argillite and	497.0						silicified rock, occas.		
						quartzite fragments		3.1/4.0	52	500			qtz. Faults Bottom?		
500						in an altered	500.0								
		N.T.	N.T.	N.T.	45061	matrix		2.9/3.0	30						
							503.0								
505						501.0 Bx CORE		1.8/4.0	45						
		N.T.	0.15	N.T.	45062	507.0 - 540.0 argillite	504.0					60	508.0' bdg. at 60°		
510						lt gray to lt green		2.1/4.0	52	510					
						loc. almost white	510.0								
						(strong silf.)		2.1/4.0	52						
							516.0								
								4.0/4.0	100						
							520.0			520					
								4.0/4.0	100						
						525.0 - 532.0									
						Strong silf. w/	525.0								
						occ qtz v.		3.5/4.0	87						
							529.0								
								3.8/4.0	95	530					
							533.0								
								4.0/4.0	100				532.0 3/4 qtz @ 65°		
							537.0						on bdg.		
								3.7/4.0	92	540		65			
							541.0								

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∠	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						540.0 - 587.0 qtzite				540			543.5 - 544.5 breccia						
						lt grey - lt green lec.	541.0						poorly cemented.						
						almost white (silf?)		4.2/5.0	84				544.5 - 546.0 shattered						
						becomes mod	546.0						core w/ sparse qqc.						
						sandy at 580.0'				+2.5			546.0 - 546.5 breccia						
							550.0	4.0/4.0	100	550		25	buff colored cement						
													549.0' ≈ 1/2" qqc @ 25°						
								4.8/5.0	96										
							555.0												
								4.6/5.0	92										
							559.0												
										560									
								4.5/5.0	90										
						566.0 - 2" grn arg	564.0												
						@ 60°		3.7/4.0	92				567.5 - 572.0 strongly						
							568.0						shattered & gouge core						
								4.0/5.0	80	570		70	occ bx. qqc @ 569.0° @ 70°						
													572.5 4" qtz w/ sparse						
							573.0					70	diss py. @ 70° (bdg?)						
								4.0/4.0	100				572.0' bdg 65°-70°.						
							577.0												
						579.0 2" arg. green													
								4.0/4.0	100				580.0' bdg. 75°						
							581.0			580		75	586.0 good slick'sds						
										+2.1			no gouge 60° opp. bdg						
						587.0 - 604.0 interbd		3.6/4.0	90				587.0 - 604.0 occ bdg.						
							585.0					60							
						qtzite lt. grey							slips in arg. sects						
						mod sandy &													
						argillite - grn.		7.2/9.0	80	590			588.0 scattered gouge						
						1" to 12" thick.							bdg slip						
						604.0 - 609.0 qtzite	594.0												
						lt grey, tan		3.8/4.0	95				598.0 2 - 1" qtz strs						
						specks, mod silfd.	598.0						@ 75° on bdg						
												75							
						609.0 - 663.0 interbd		3.6/4.0	90	600									
						qtzite lt grey	602.0												
						mod sandy & arg													
						grey to grn, disc. hairlike		6.8/7.0	96										
						to 12" thick. occ yellowish													
						to tan calc. patch	609.0						610.0 bdg @ 75°						
						(calc alt?)				610		75							

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						609.0 - 663.0 cont.	609.0												
						calc. sects. become		3.8/4.0	95	610									
						stronger & wider	613.0						615.0 5° barren qtz						
						beyond 615.0'						75	@ 75° bdg: arg						
						rock becomes ≈		6.5/7.0	93				slips both walls						
						40% qtzite &	620.0			620									
						remainder arg &	621.0	0.5/1.0	60			75	620.0 bdg 75°						
						arg qtzite		4.0/4.0	100										
							625.0												
								2.8/4.0	70										
							629.0			630									
								3.8/4.0	95										
							633.0												
								6.6/7.0	94				639.0 bdg 65						
							640.0			640		65							
								8.0/9.0	98										
													649.0' 3/4" qtz, sid						
							649.0						@ 65 bdg						
										650			668.0' bdg 70°						
								8.8/9.0	98										
						663.0 - 671.0 arg qtzite							671.0 - 690.0 occ						
						w/ sparse arg.	658.0						1/16" - 1/4" qtz & qtz, sid						
						med grey not calc.				660			strs. random						
						occ. intcpt. w/ lt		5.7/7.0	81				orientation.						
						tan specks													
							665.0												
						671.0 - 690.0 qtzite	668.0	3.0/3.0	100										
						lt grey - white fine		2.4/3.0	80			70							
						wkly arg. grading	671.0			670									
						to hard dense qtzite		3.5/4.0	88				678.0 wk. flt sparse						
						± 680.0' very strg silf.	675.0						qge @ 80°						
						w/ occ thin qtz str.		4.5/5.0	90				680.0 wk flt sparse						
						beyond 683.0'						80							
						15°-40° to core.	680.0			680		80	qge @ 80°						

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Au/ton	% Pb	% Zn	Sample No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						690.0 - 709.0 qtzite	680.0			680									
						lt grey - greenish		4.6/5.0	92										
						to lt green - occ													
						silfd section	685.0												
								2.7/4.0	62	11.3'									
							689.0												
690								1.7/3.0	57	690		75	690.0 - bdg 75°						
							692.0												
		0.4	N.T.	N.T.	A5063			1.5/3.0	50										
695							695.0												
							696.0	0.5/1.0	50										
		N.T.	N.T.	N.T.	A5064			1.6/3.0	53										
							699.0												
700							700.0	0.6/1.0	60	700			691.0 - 706.0 broken						
							701.0	0.5/1.0	50				core (jointing)?						
		N.T.	N.T.	N.T.	A5065			3.1/5.0	62										
705							706.0						707.0 bdg 70°						
		N.T.	N.T.	N.T.	A5066			1.5/3.0	50			70							
							709.0												
710						709.0 - qtzite				710									
		N.T.	N.T.	N.T.	A5067	lt. green - very lt. grey		2.5/5.0	50										
						w occ lt. tan specks	714.0												
715						loc. cse gnd & sandy													
						loc. very dense		3.0/4.0	75										
							718.0												
						717.0' - 718.0' arg	719.0	0.8/1.0	80										
						lt green		2.9/4.0	72	720									
							723.0												
						725.0' - 726.0' arg							724.0' bdg 75°						
						lt green		4.3/5.0	86			75							
							728.0												
						728.0 - 729.0 arg				730									
						lt. green		5.5/6.0	91										
							734.0						738.0 bdg 70°						
								7.8/8.0	97										
												70							
										740									
							742.0						? 741.0' 2½ - 3" qge-bx						
								2.7/3.0	90				w ang. frags.						
							745.0						@ 55° (doubtful)						
											X	X	746.0 - 752.0 wk fract						
								4.1/7.0	58	750	X	X	core occ. slickside						
							752.0				X	X	w black coating						

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag / Ton	% Pb	% Zn	Sample No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%			X	VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						709.0 – 817.0 qtzite	752.0			750									
						lt green – very lt grey		4.1/6.0	68										
						w/occ ton specks													
						loc. csc. gnd &													
						sandy - loc.	758.0												
						very dense		5.2/3.0	173	760			760.0 – 765.0 wk fract						
							761.0				X X X		core w/ scattered						
							764.0	2.4/3.0	80		X X X	70	qge & slick'sds						
											X X X		// To core						
								4.0/5.0	80				764.0 bdng 70°						
							769.0			no.5									
										770			774.0 – 745 fract						
													core occ. scattered						
								6.0/7.0	80				qge.						
											X X X X		777.0 – 800.0 fract						
							776.0												
								3.5/4.0	87		X X	70	core numerous black coated						
											X X	75	slickensides & scattered						
780							780.0			780									
		Tr	NT	NT	45068		782.0	2.0	30		X X		gouge. occ. slick // to core						
								2.2/3.0	44		X X		777.0 slick sds @ 70°						
785													780.0 slick sds @ 75°						
							787.0				X X								
		Tr	NT	NT	45069			3.0/3.0	100		X X								
							790.0						790.0 1" dk grey qge						
790							791.0	3.3/4.0	90	790		80	@ 80°						
												75							
		Tr.	NT	NT	45070			3.0/5.0	60		X X		792.0 slickensides @ 75°						
												75							
795							796.0						794.0 + 1" dk gry qge						
												?	@ ± 75°						
		Tr.	NT	NT	45071			3.0/4.0	75		X X X								
800							800.0				X X X		796.0 ± ½" qge @ ?						
								5.3/7.0	76	800 +2.0			805.0 slick @ 65						
													806.0 ± 1" qge @ 55						
												65							
							807.0					55	814.0 ± ¾" qge & bx						
													@ 55						
810						817.0 – 818.0 ang		3.0/4.0	75	810			815.0 slick qge &						
						qtzite - green	811.0					60	calc coating @ 55°						
								1.5/3.0	50				816.0 ± ¾" gritty qge, 65°						
		Tr	NT	NT	45072		814.0					55							
815								2.2/3.0	73			55	817.0 – 818.0 shattered						
							817.0					65							
										1.6		60	core w occ slick & qge						
												55	818.0 blk coated						
										820			slick @ 55°						

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington

July 6, 1959

OFFICIAL FILE COPY O. M. E. RECEIVED JUL 13 1959		
DATE	INITIALS	CODE
7-13	gad	110
"	[illegible]	110
7-14	[illegible]	800
~~7-15~~	~~RJ~~	~~500~~

Memorandum

To: OME Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim inspection report, Docket No. DMEA-4712 (Lead-Zinc) American Smelting and Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The above project was inspected June 25, 1959. A short conference was held at the mine office with Mr. Troy Tower, Superintendent of the Page mine, Mr. C. J. Ward, Assistant Superintendent, Mr. John Butler, Engineer, and Mr. Dave Flitcher, Assistant Geologist.

All underground development, mining and milling are still on a 4-day-week schedule (Tuesday through Friday). The staff and engineering divisions continue on a 5-day-week schedule (Monday through Friday). Ore production comes from the Tony vein and supplies the 500-ton-per-day mill, which runs at capacity 4 days per week. The Boyles Brothers, who have been diamond drilling on the 3070 level, have pulled out all their equipment after completing their minimum contract agreement. It is claimed they were losing money under the contract. This pulling out by the Boyles Brothers means that the company will now have to negotiate for a new drilling contract on the 3070 level. It is expected that any new drilling contract will be at a higher rate than the one with the Boyles Brothers.

An underground inspection of the 3070 level was made, accompanied by Mr. Tower. The 3070 level east drive has been advanced 290 feet beyond survey station No. 1616 for a total advance of 2,911.82 feet under the DMEA contract. The east face is still in light-colored argillaceous quartzites which slabs badly and the entire advance requires timbering within a few feet of the face. No significant mineralization or structure was encountered in the last advance east until at the present face where a fault zone about 4 feet wide was intersected. This zone strikes about N. 23° W. across the face and dips 79° W. At this

point it was originally planned to start the first crosscut south to the south boundary line, but because of the possibility of bad and heavy ground in the fault zone, the crosscut will be started back from the present face about 30 or 40 feet.

The first crosscut north (714 XCN) has advanced for a total of 142 feet with the first 64.5 feet timbered. It is expected that the north crosscut will require less timber than the main east crosscut as it will be driven at almost right angles to the bedding and shear planes. This crosscut is expected to be driven 1,000 feet or more to reach the Osburn fault zone to the north. However, progress at the several faces has been slowed with the 4-day-week work program.

Measurements (3070 DE)

Previously reported to Station No. 1612	2,147.09 feet
Station No. 1612-1613	136.37 feet
Station No. 1613-1614	110.39 feet
Station No. 1614-1615	116.47 feet
Station No. 1615-1616	111.50 feet
Station No. 1616-face	290.00 feet
Total east drift advance to 6/25/59	2,911.82 feet

Diamond drilling

The first core hole, at the end of 823 XCN as reported in E. G. Erickson's memorandum of April 13, 1959, reached a depth of 755 feet but the hole caved and has been abandoned for the present. The second core hole (DDH-30, 800 XCS) reached a depth of 927 feet and was discontinued in some badly caved ground. No mineralization was reported. The third core hole (DDH-30, 767 XCN) was stopped after 39 feet when the Boyles Brothers moved their equipment out of the mine. No further core drilling can be expected until a new drilling contract has been negotiated.

R. D. Sample

Distribution:
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Docket
Sample

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

JUN 8 1959
O.M.E.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April 195 9 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. c/o Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				9/3 [illegible]		
Drilling	1,991.20	4,921.50	6,912.70	1991.20	4921.50	6912.70
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	4,995.75	67,331.83	72,327.58	4995.75	67 331.83	72 327.58
Supervision	250.45	3,803.65	4,054.10	250.45	3803.65	4054.10
Technical Services	348.00	2,648.00	2,996.00	348.00	2648.00	2996.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,860.53	17,807.22	19,667.75	1860.53	17807.22	19667.75
Explosives	1,185.74	17,116.23	18,301.97	1185.74	17116.23	18301.97
Pipe	952.23	19,267.53	20,219.76	952.23	19267.53	20 219.76
Track	479.40	8,181.47	8,660.87	479.40	8181.47	8660.87
Other	710.02	10,717.81	11,427.83	710.02	10717.81	11427.83
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	211.90	3,345.18	3,557.08	211.90	3345.18	3557.08
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	577.62	2,519.37	3,096.99	577.62	2519.37	3096.99
Sampling and Analysis	86.25	105.00	191.25	86.25	105.00	191.25
Payroll Taxes	264.57	2,851.85	3,116.42	264.57	2851.85	3116.42
Liability Insurance	104.36	1,796.64	1,901.00	104.36	1796.64	1901.00
Other	4,149.92	66,955.80	71,105.72	4149.92	66955.80	71105.72
(8) Contingencies (specify): Less in excess of maximum				1659.88	8623.37	9283.72
TOTALS	~~10,167.94~~	~~229,369.08~~	~~247,537.02~~	11608.59	143095.71	154704.30

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 15, 1959 *Payee American Smelting and Refining Company
Per J. L. Kinsey Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5804.30

Signature Stanley F. Lenz
(Authorized Certifying Officer)

Date 6/2/59 Vou. No. 2298
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E1134 in accordance with the terms of the contract.

Signature s/ Stephen W. Zoldok Title Mining Engr. Date May 20, 1959

APPROVAL BY ~~DMEA~~ OMPE EXECUTIVE OFFICER OR ALTERNATE:

Signature s/ A. E. Weissenborn Title Exec. Officer Date May 22, 1959

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

JUN 8 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 195 9 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. c/o Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	12,417.47	184.8	172,578.49	2770	62.30	12,485	40.00
~~Crosscutting~~ DD Stations	"			5,439.73	116.9a	46.53	300	35.00
~~Raising~~ Timbering	"	3,454.12	184.8	45,316.39	2247.9	20.16	3,950	10.50
~~Shafts~~ Rock Bolting	Each			6,483.06	1270.b	5.10	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.			10,097.12	13,116	.77	14,800	.45
Drilling: Core AX or Lar.	Foot	1,991.20	285	6,912.70	1,040	6.65		6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"	144.31		353.82		.34		.40
~~Stripping~~ Core Boxes	Each	74.56	16	164.46	37	4.44	290	3.40
~~Trenching~~ Assaying	Det.	86.25	69	191.25	174	1.10	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		18,167.94		247,537.02				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS		18,167.94		247,537.02				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date May 15, 1959 Operator American Smelting and Refining Company

Per J. L. Kieser Title Manager

REMARKS:
a - 100 feet allowable under contract.
b - 872 Rock Bolts allowable under contract.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

5-20-59
/s/ Stephen W. Foldvik
Mining Engr.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
May 18, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
EAST PAGE PROJECT
PROGRESS REPORT - APRIL 1959

In the 3070 East Page Drive, advance in April was 184.8 feet, for a total of 2,770.0 feet to date. In the early part of the advance, the rocks continue to be purplish, argillaceous quartzites and argillites, making heavy ground underneath a northerly-striking fault which dips flatly to the west. The rocks gradually become more quartzose until, after 100 feet advance, they are predominantly grey quartzites with minor, purple-banded, argillaceous quartzites. The bedding and minor bedding-plane faults generally strike east and dip north and south. A number of minor faults striking N. 45° W. to N. 20° E. and dipping steeply west are exposed. (Please see Plate 1.)

In DDH 30-823N, the fault zone from 401 to 413 feet presented such difficulties that no further advance could be made, and the hole was stopped at 755 feet.

DDH 30-800S was collared at about coordinate 11,990 E. and drilled southerly for 285.0 feet, bringing total diamond drill advance for the project to 1,040 feet. Between the collar and 117 feet, there is a change from green and purple quartzite and argillaceous quartzite (St. Regis?) to predominantly light-grey, dense quartzite (Revett?). A shattered zone, with some gouge, at footage 220 to 229 feet is the only significant structure encountered.

A plan of the drill hole is shown on Plate 1 and core logs for the relevant portion of the hole are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN
S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, Geology of Advance
in East Page Drive and in DDH 30-800S - - - 1" = 50'
Core Log, DDH 30-800S - - - - - - - - - - - - 0' - 290'

DIETZGEN - NO. 352-107

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	135.20	1884.20	2019.40
Bits	2030.05	2978.75	3181.80
Hose and Fittings		277.92	277.92
Other		18.59	18.59
Total Drilling	3382.25	5159.46	5497.71
Rock Bolting:			
Bolts 4'			
Bolts 6'		2835.92	2835.92
Total Rock Bolts		2835.92	2835.92
Other Supplies:			
Cap Lamps	1001	1687.3	1787.4
Hand Tools	442.82	543.9	992.1
Miscellaneous	1588.1	2557.9	4146.0
Total Other Supplies	2136.4	4789.1	6925.5
Power:			
Lighting	319	3141	3460
Auxiliary Ventilation	936	9601	10537
Compressed Air	14558	211610	226168
Total Power	15813	224352	240165
Total Category 3 - Other Supplies	7100.2	10717.81	11427.83
Category 7 - Other:			
Underground Haulage	1199.20	18194.98	19394.18
Interior Hoisting	-	1215.00	1215.00
Main Hoisting	9540.8	15895.53	16849.61
Surface Haulage	1696.2	1978.17	2147.79
Drainage	1353.4	3245.15	3380.49
Main Ventilation	517.4	1536.24	1587.98
Life Insurance	692.0	903.21	972.41
Health and Accident Insurance	2814.0	3285.90	3567.30
Vacation Allowances	2938.8	3329.50	3623.38
Holidays	-	2955.67	2955.67
Pension Accruals	7881.8	10515.19	11303.37
Dry Room	421.8	1071.80	1113.98
First Aid	120.0	237.09	249.09
Medical-Surgical	778.9	1088.82	1166.71
Timekeeping and Warehouse	752.1	1503.55	1578.76
Total Category 7 - Other	41499.2	66955.80	71105.72

PAJARI SURVEY

Footage	Bear.	Incl.
35.0'	S01½°E	+3°
275.0'	S00½°E	+8°

TO ACCOMPANY
Dated:
By:
Filed:

American Smelting and Refining Company Sheet 1 of

DIAMOND DRILL HOLE LOG

Property: PAGE
Location: 3070 - East Page Drive
Coord.-Collar E 11,990.9
N 8123.7
Elev.-Collar: 393
Date-Started: Apr. 4, 59
Completed:

Hole No.: 30-800S
Bearing:
Inclination:
Length:
Core Size:
Logged by: SNH - DMF

ASSAYS - SLUDGE: Intercept	Wt.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	<	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
		0'-7.0' NX casing									
			NX casing								
		0'-21.0 arg. qtzite									
		lt grn. to grey									
		occ. ppl. spots				10					
				10.0/14.0	71						
						20			21.0' bedding 80°		
			21.0	1.3/2.0	65			80			
			23.0	1.4/2.0	70			70	23.0' bedding 70°		
			25.0	1.5/2.0	75						
			27.0								
		21.0'-27.0		3.5/4.0	87	30			31.0' bedding 70°		
		qtzite - grey to	31.0	2.0/2.0	100			70			
		ppl. very thin	33.0	2.0/2.0	100						
		arg. partings. occ	35.0	3.3/5.0	66						
		specks arg &									
		ppl patches.	40.0			40					
		27.0'-80.0'		3.7/4.0	92			75	41.0' bedding 75°		
		qtzite - lt grn. to									
		grey & ppl. Thin buff	45.0					70	44.0 bedding 70°		
		lines on bedding	48.0	3.0/3.0	100						
		occ ppl bands &				50					
		tan specks.									

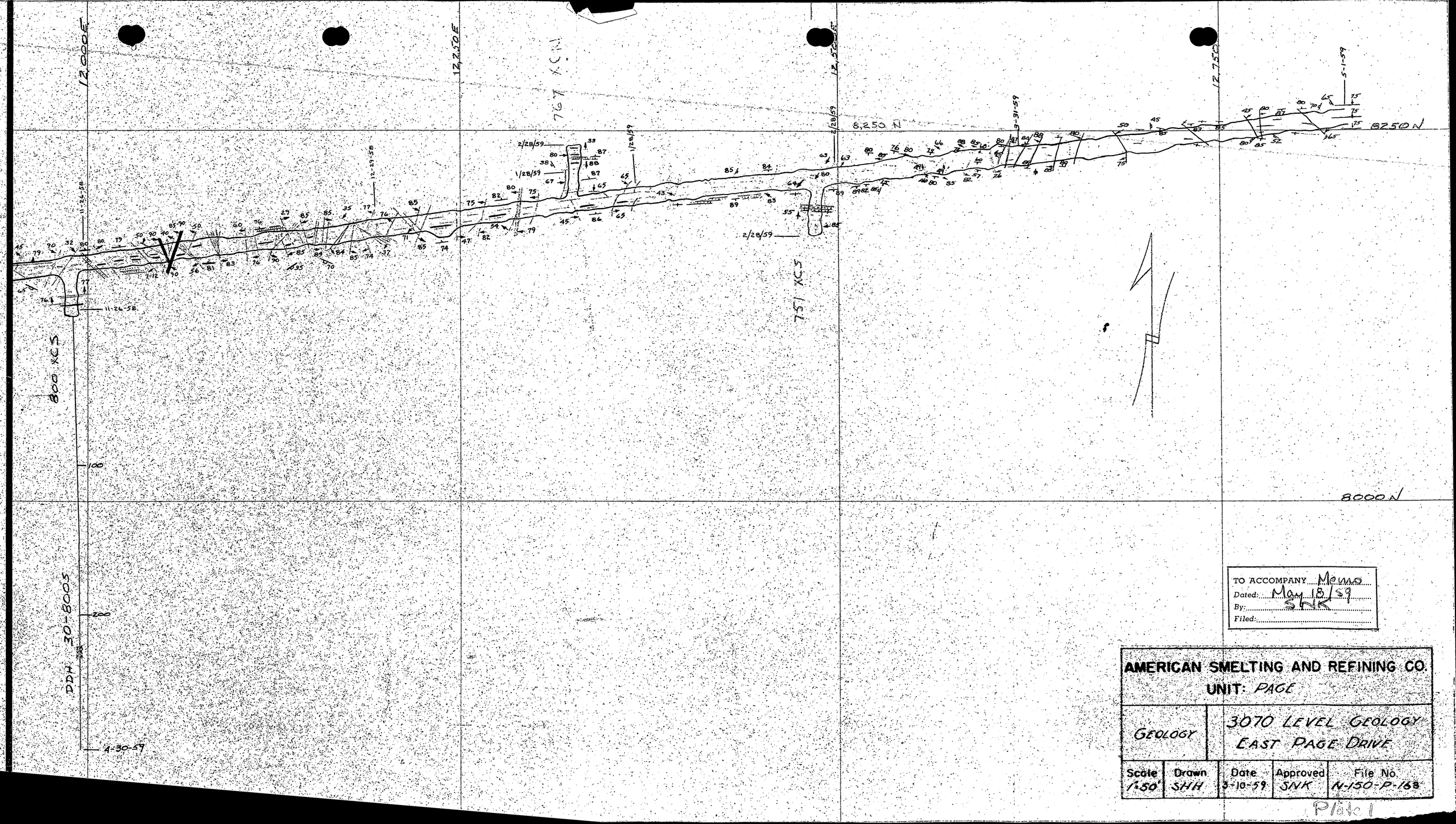
TO ACCOMPANY M.M. Grant
Dated: May 18/59
By: SNK
Filed:

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						27.0'-80.0' (cont.)				50									
						fract ∥ to core	52.0												
						slightly calc.		2.6/5.0	56										
						60.0-65.0 grn-grey	57.0												
						arg qtz te.							58.5' 1/4" qtz @ 35°						
						62.0' - 2" grn. arg		4.1/6.0	82	60		35	hairlike qtz strs to 60.0'						
						63.0' - 3" grn arg	62.0						63.0' bedding 75°						
						66.0 - 6" " "	63.0	3.1/4.0	130			35							
						74.0 - 2" " "		3.6/4.0	90			75	65.0' 1/4" qtz & sid ? @ 35°						
						75.0 - 4" " "	67.0					60	67.5 1" qqc & bx @ 60° ?						
							70.0	2.6/3.0	87	70									
													74.0' bedding 70°						
								4.0/5.0	80										
							75.0					70							
								3.2/4.0	80										
							79.0												
							80.0	0.9/1.0	90	80									
						80.0' - 188.5'	82.0	2.1/2.0	105				83.0' bedding 80°						
						qtzite - lt grey		3.3/4.0	82			80							
						locally sandy	86.0												
						& argillaceous.	87.0	1.0/1.0	100										
						arg. sections		4.5/5.0	90	90									
						sparse beyond	92.0												
						117.0'		4.7/3.0	157				94.0' bedding 80°						
							95.0					80							
								4.0/5.0	80										
							100.0												
								1.7/3.0	57	100									
							103.0						107.0 bedding 80°						
								4.0/4.0	100				107.5' 1/4 porous qtz						
							107.0					80							
							108.0	1.5/1.0	150			90	& 3/4" qqc @ 90°						
								2.7/3.0	90	110									
							111.0												
								2.5/3.0	83										
							114.0						114.0' bedding 72°						
								3.5/3.0	117			72							
							117.0												
								2.3/4.0	57	120									
							121.0												

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag / Ton	% Pb	% Zn	Sample No	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
										120									
							121.0					77	121.0' bedding 77°						
								3.2/4.0	80										
							125.0												
								4.0/4.0	100										
							129.0												
										130									
							132.0	3.0/3.0	100										
								2.5/3.0	83										
							135.0												
							136.0	0.6/1.0	60										
							138.0	1.7/2.0	85										
							140.0	2.0/2.0		140									
						143.0'-147.0' mod.		3.0/3.0	100			80	142.0' Arg. part. w/ qtz.						
						silif'd minute	143.0						@ 80°						
						qtz strs.	145.0	1.2/2.0	60										
							146.0												
								3.0/4.0	72			78	147.0' bedding 78°						
150							150.0			150									
						153.0'-157.0' arg. qtzite	152.0	2.0/2.0	100										
		N.T.	N.T.	N.T.	A5052	lt. grey - lt green		2.0/5.0	40										
155																			
							157.0					90	157.0' bedding 90°						
							158.0	0.7/1.0	70										
160		N.T.	N.T.	N.T.	A5053		160.0	3.1/2.0	155	160		0	160.0' several <1/2" qtz						
								3.0/3.0	100				strs. ∥ to core.						
							163.0												
							166.0	2.7/3.0	90				166.0' bedding 80°						
								2.2/4.0	55			80							
							170.0						172.0' several wk flts 35°						
							171.0	1.6/1.0	160	170			173.0 bedding 80°						
						176.0'-180.5 qtzite.						35							
						cont. ppl specks	174.0	2.7/3.0	90			80							
175						FeO.?		2.9/3.0	97										
							177.0												
		N.T.	N.T.	N.T.	A5054		179.0	1.3/2.0	65										
180										180									
								2.3/5.0	46										
		N.T.	N.T.	N.T.	A5055	188.5'-189.0' qtzite	184.0												
185						lt grey w/ irr	186.0	1.9/2.0	95										
						ppl & grn banding	188.0	1.9/2.0	95										
						sparse xln py	190.0	1.9/2.0	95	190		80	190.0' bedding 80°						
						contact 189'?													

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag per ton	% Pb	% Zn		LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
						189.0' - 195.0 arg. qtzite	190.0			190									
						lt grey - green		2.2/3.0	73										
						thin bed'd	193.0						195.0' bedding 80°						
								3.9/5.0	74			80							
						195.0' - 269.0' qtzite	198.0						189.0 - 198.0 occ						
						lt grey, dense occ	200.0	1.5/2.0	75	200			bedding partings						
						purple specked	201.0	1.0/1.0	100										
						& hair like arg. bands.	202.0	2.7/3.0	90										
						203.0-204.0 grey	203.0	2.1/3.0	70				204.0' bedding 75°						
						arg qtzite	205.0	1.2/2.0	60			75							
						207.0 - 214.0 qtzite	209.0	3.9/4.0	92										
						w/ narrow <1/16" arg				210			211.0 bedding 70°						
						bands	213.0	3.9/4.0	97			70							
													215.5' ± 3/4" qge // bedding						
								3.5/4.0	87				75°						
							217.0					75							
								2.7/3.0	90										
220							220.0			220		95	220.0' bedding 75°						
								1.5/3.0	50				220.0 - 229.0 shattered						
							223.0						zone. 2" qge at						
		N.T.	N.T.	N.T.	45056								227.0'						
225							226.0	1.6/3.0	55			?							
		N.T.	N.T.	N.T.	45057		228.0	1.3/2.0	65										
							229.0	0.7/1.0	70										
230										230									
								2.5/3.0	50										
							234.0												
							236.0	1.0/2.0	50										
								1.7/3.0	57										
							239.0												
							241.0	1.7/2.0	85	240			242.0' bedding 75°						
							242.0	0.6/1.0	60										
								2.5/3.0	83			75							
							245.0												
								3.0/4.0	75										
							249.0					77	247.0' bedding 77°						
										250									
							252.0	2.8/3.0	93				252.0 minor fault						
							254.0	1.9/2.0	95				@ 80° on bed.						
							258.0	2.9/4.0	75			80	257.0 bedding 80°						
							260.0	1.5/2.0	75	260									

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	X	DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.					LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov.				
						269.0 - 315.0 qtzite	260.0			260									
						lt green-grey, num.		3.5/4.0	87			75	261.0 bedding 75°						
						hairlike arg. bnds.	264.0												
						sandy & silf^d from.		2.2/3.0	73										
						242.0' - 254.0	267.0					75	267.0 minor bed. fault						
						276.0 - 279.0	269.0	1.6/2.0	80	270			@ 75°						
						ppl. banding &	272.0	2.1/3.0	70			75	271.0 bedding 75°						
						specks.	274.0	1.7/2.0	85			75	274.0 minor bed fault						
						308.0 - 309.0		2.8/3.0	93				@ 75°						
						mod to stng. silf^n.	277.0												
							280.0	2.6/3.0	83	280		75	280.0 bedding 75°						
								1.8/3.0	60										
							283.0												
							284.0	1.9/1.0	100				287.5 ½" gritty gge &						
							285.0	0.7/1.0	70				½" qtz, s.d. @ 73°						
							286.0	0.7/1.0	70										
						310.0 - 313.5 arg.	288.0	1.7/2.0	85			73	on beding						
						lt green		3.4/4.0	85	290									
							292.0					85	292.0 wk flt. scattered						
								4.1/5.0	82				qtz for 2", ppl						
													smeared slickensides						
							297.0						@ 85°						
								2.0/2.0	100										
							299.0			300									
								4.0/5.0	80										
							304.0												
								4.0/4.0	100				306.0 beding 70°						
							308.0						fract cleav.? 55°						
								3.0/3.0	100	310			opp beding.						
							311.0						310.5 3" gge & broken						
						315.0' - 320.0 qtzite	314.0	1.6/3.0	53				rk. on beding 75°						
						very lt grey &	316.0	2.5/2.0	125				314.0 beding 65°						
						greenish grey,		2.2/3.0	73										
						local hairlike	319.0						319.0 ± 3 inches						
						delicate banding		3.5/4.0	87	320			broken rk. &						
							323.0					65	scattered gouge						
							324.0	1.0/1.0	100				323' bdg. at 65°						
								2.3/3.0	77										
							327.0												
							329.0	1.8/2.0	90										
										330									
							332.0	2.4/3.0	80										



TO ACCOMPANY Memo
Dated: May 18/59
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 3-10-59	Approved SNK	File No. N-150-P-168

Plate 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington

May 13, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAY 25 1959

DATE	INITIALS	CODE
5/25	G	220
"	[illegible]	110
5/26	[illegible]	800
[illegible]		500

Memorandum

To: OME Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim inspection report, Docket No. DMEA-4712 (Lead-Zinc), American Smelting and Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The above project was inspected May 7, 1959, accompanied by Masao Kaneko, Chief Mining Engineer, Mitsui Mining and Smelting Co., Ltd., Tokyo, Japan. Mr. Kaneko is a guest of the United States Government and is on an inspection tour of major mining operations in western United States and parts of Canada. He was introduced to and held conferences with Mr. Troy Tower, Superintendent of Page Mine, Mr. C. J. Ward, Assistant Superintendent, Mr. John Butler, Engineer, and Mr. Dave Flitcher, Assistant Geologist.

We were accompanied underground to the 3070 level by Mr. Tower who showed Mr. Kaneko several of the workings and faces of the Tony vein which, at the present time, is supplying the ore for the 500-ton mill. All underground development, mining, and milling are now on a 4-day week work schedule. The staff and engineering divisions are still on a 5-day-a-week schedule. Curtailment of production was necessary because of low metal prices.

The 3070 level east drive had been advanced 164.50 feet beyond survey station No. 1616 for a total advance of 2759.90 feet. At this fartherest advance the company is starting their first northerly crosscut to intersect the Osburn fault. The crosscut station is just being cut which will probably delay the eastward advance for a short time.

The east face is still in argillaceous quartzites which slabs badly and requires timbering most of the way. In a few places roof bolts are sufficient to hold the back and sides. No significant mineralization or structure has been encountered in the east drift.

Distribution:
OME (4)
USBM (2)
USBM(AD)
Docket
Sample

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

MAY 11 1959 O.M.E.

Month of March, 1959 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. & Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				5/15/59 W.P.K.		
Drilling	2,018.50	2,903.00	4,921.50	2018.50	2903.00	4921.50
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	4,983.31	62,348.52	67,331.83	4983.31	62348.52	67331.83
Supervision	231.48	3,572.17	3,803.65	231.48	3572.17	3803.65
Technical Services	281.00	2,367.00	2,648.00	281.00	2367.00	2648.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,547.69	16,259.53	17,807.22	1547.69	16259.53	17807.22
Explosives	761.19	16,355.04	17,116.23	761.19	16355.04	17116.23
Pipe	843.78	18,423.75	19,267.53	843.78	18423.75	19267.53
Track	410.62	7,770.85	8,181.47	410.62	7770.85	8181.47
Other	273.56	10,444.25	10,717.81	273.56	10444.25	10717.81
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	211.90	3,133.28	3,345.18	211.90	3133.28	3345.18
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	400.56	2,118.81	2,519.37	400.56	2118.81	2519.37
Sampling and Analysis	12.00	93.00	105.00	12.00	93.00	105.00
Payroll Taxes	273.56	2,578.29	2,851.85	273.56	2578.29	2851.85
Liability Insurance	93.73	1,702.91	1,796.64	93.73	1702.91	1796.64
Other	3,268.37	63,687.43	66,955.80	3268.37	63687.43	66955.80
(8) Contingencies (specify): Less in Excess of Maximum				6275.16	79998.31	86273.47
TOTALS	15,611.25	213,757.83	229,369.08	9336.19	133759.52	143095.71

I certify that the above bill is correct and just and that payment therefor has not been received.

Date April 16, 1959 Payee American Smelting and Refining Co.

Per J. C. Kiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

$150.00 Bal. due on funds withheld from Form MF-104.

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

4668.09
150.00
4818.09

$ 4818.09

Signature Dorothy F. Low
(Authorized Certifying Officer)

Date 5/7/59 Vou. No. 2292

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /s/ Eric D. Erickson Title Mining Engr. Date 4/22/59

APPROVAL BY ~~DMEA~~ ONE EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wm. L. Agnew Title Acting Exec. Date 5/7/59

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. % Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	10,162.38	143.3	160,161.02	2585.2	61.95	12,485	40.00
~~Crosscutting~~ DD Stations	"			5,439.73	116.9a	46.53	300	35.00
~~Raising~~ Timbering	"	3,344.11	143.3	41,862.27	2063.1	20.29	3,950	10.50
~~Shafts~~ Rock Bolting	Each			6,483.06	1270b	5.10	4,000	3.50
~~Winzes~~ Car Sidings	On Ft			10,097.12	13,116	.77	14,800	.45
Drilling: ~~Core~~ AX or lar.	Foot	2,018.50	357	4,921.50	755	6.52		6.60
~~Core~~ EX	"						11,855	6.40
~~Auger~~ Incld.	"	48.61		209.48		.28		.40
~~Stripping~~ Core Boxes	Each	25.32	6	89.90	21	4.28	290	3.40
~~Trenching~~ Assaying	Det.	12.00	12	105.00	105	1.00	4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		15,611.25		229,369.08				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		15,611.25		229,369.08				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Apr. 16, 1959 Operator American Smelting and Refining Company

Per J. C. Kiesser Title Manager

REMARKS: a - 100 feet allowable under contract.

b - 872 Rock Bolts allowable under contract.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Eric L. Erickson, 4/27/59

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
April 14, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - MARCH 1959

In the 3070 level East Page Drive, advance in March was 143.3 feet, for a total of 2,585.2 feet to date. The heading advanced through thin-bedded, purple argillites and argillaceous quartzites which in the present face strike S. 85° E. and dip 88° north. The strongest of the numerous cross faults encountered strikes north, dips 26° west and consists of up to one foot of gouge and brecciated wall rock. Penetration of the fault showed no change in the strike of the bedding but revealed an abrupt change in dip from 65° south in the hanging wall to 88° north in the footwall. (Please see Plate 1.)

DDH 30-823N was advanced 357.0 feet to 755.0 feet from the collar. 'A' casing was placed to 629 feet, and 'AX' core recovered from that point. Caving at 664 feet made additional casing necessary, so the casing was pulled to permit reaming, which was in progress at the end of the month.

A zone of strong faulting was encountered between 401 and 413 feet, and intermittent evidence of less important faulting is logged from 434 to 465 feet and at 515 and 710 feet. Beyond the major fault, the rock is predominantly quartzite, with narrow argillaceous sections. Tentatively it is considered that the rocks south of the fault are of the St. Regis formation and those north belong to the Revett. About two feet of basic dyke were encountered at 697 feet. A plan of the drill hole is shown on Plate 2, and core logs for the relevant portion of the hole are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments

Plate 1 - Plan, Geology of Advance in East Page Drive - 1" = 50'
Plate 2 - Plan, Geology of Advance in DDH 30-823N - - 1" = 50'
Plate 3 - Core Log, DDH 30-823N - - - - - - - - - - - - - 400' - 755'

DIETZGEN — NO. 352-107

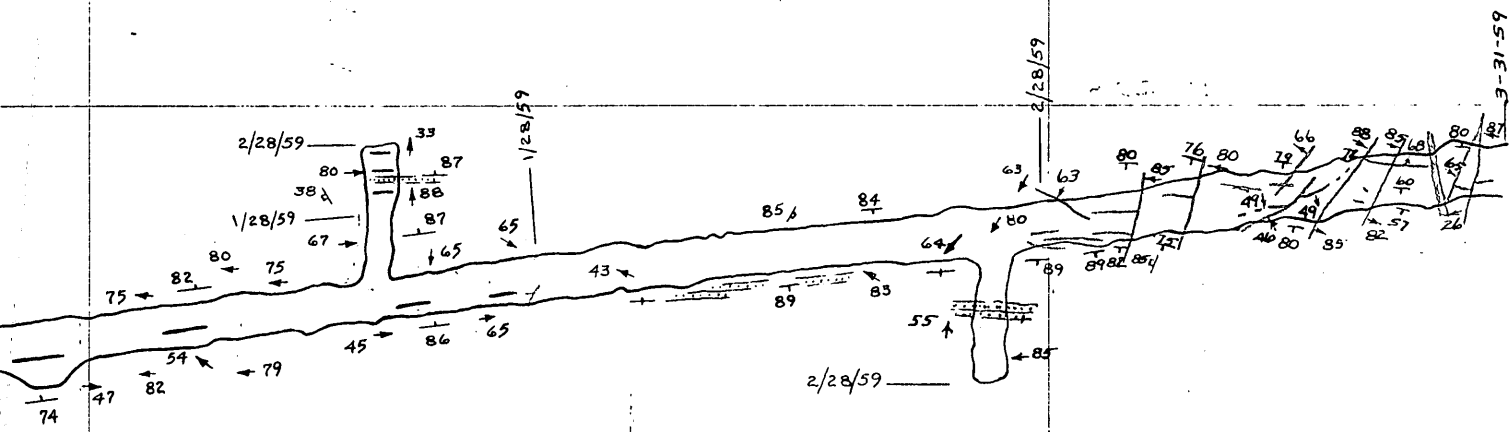
Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	39.38	1844.82	1884.20
Bits	55.50	2923.25	2978.75
Hose and Fittings		277.92	277.92
Other		18.59	18.59
Total Drilling	94.88	5064.58	5159.46
Rock Bolting:			
Bolts 4'			
Bolts 6'		2835.92	2835.92
Total Rock Bolts		2835.92	2835.92
Other Supplies:			
Cap Lamps	10.01	158.72	168.73
Hand Tools	7.53	46.86	54.39
Miscellaneous	34.26	221.53	255.79
Total Other Supplies	51.80	427.11	478.91
Power:			
Lighting	2.23	29.18	31.41
Auxiliary Ventilation	9.06	86.95	96.01
Compressed Air	115.59	2000.51	2116.10
Total Power	126.88	2116.64	2243.52
Total Category 3 - Other Supplies	273.56	10444.25	10717.81
Category 7 - Other:			
Underground Haulage	897.27	17297.71	18194.98
Interior Hoisting		1215.00	1215.00
Main Hoisting	723.16	15172.37	15895.53
Surface Haulage	102.02	1876.15	1978.17
Drainage	128.05	3117.10	3245.15
Main Ventilation	28.45	1507.79	1536.24
Life Insurance	56.37	846.84	903.21
Health and Accident Insurance	231.83	3054.07	3285.90
Vacation Allowances	239.47	3090.03	3329.50
Holidays		2955.67	2955.67
Pension Accruals	630.19	9885.00	10515.19
Dry Room	94.31	977.49	1071.80
First Aid	5.26	231.83	237.09
Medical-Surgical	72.03	1016.79	1088.82
Timekeeping and Warehouse	59.96	1443.59	1503.55
Total Category 7 - Other	3268.37	63687.43	66955.80



TO ACCOMPANY Memo
Dated: April 15, 1959
By: S.N.K.
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 3-10-59	Approved SNK	File No. N-150-P-168

PLATE 1

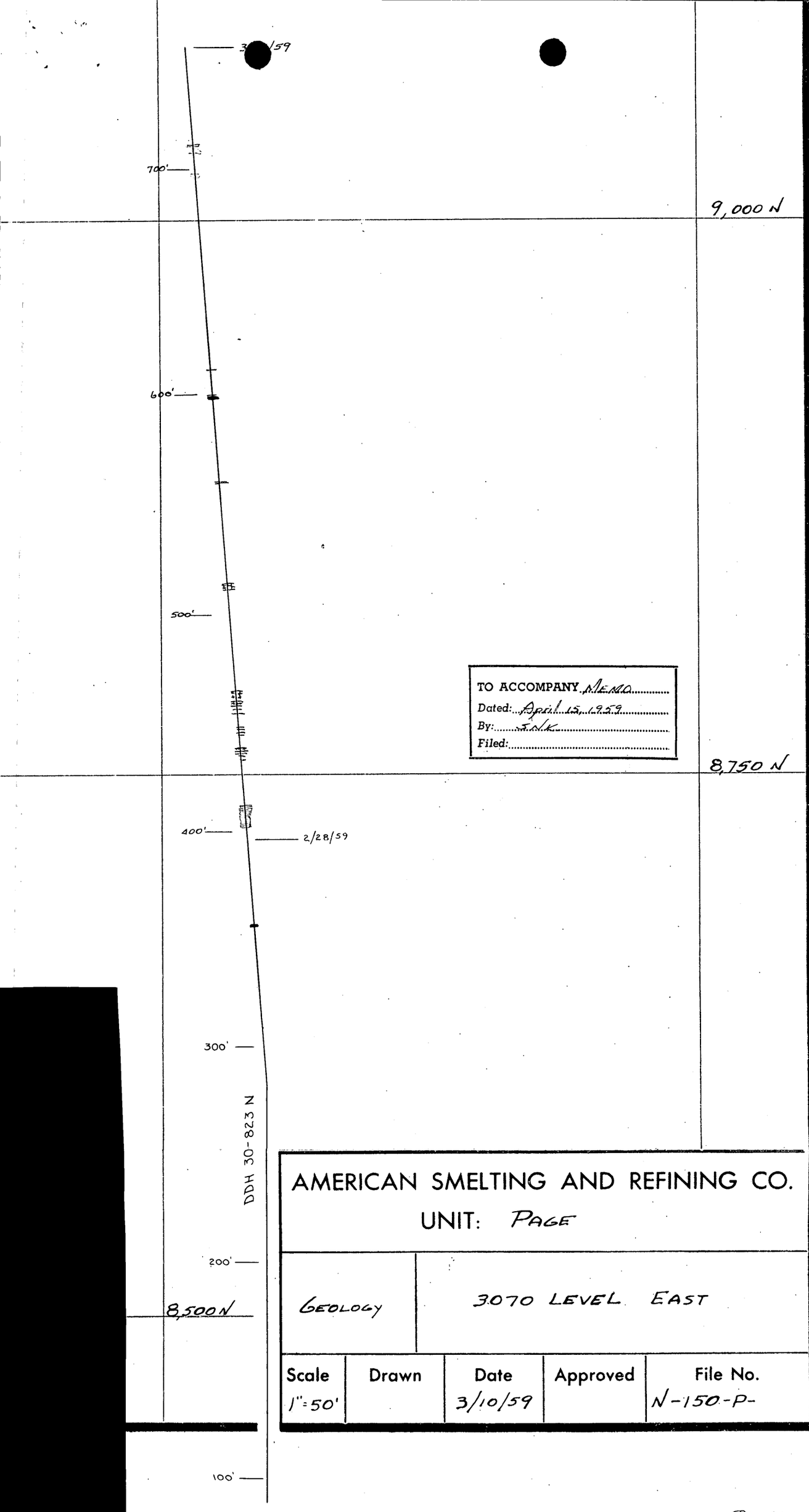

3/59
700'
600'
500'
400'
2/28/59
300'
200'
100'
DDH 30-823 N
9,000 N
8,750 N
8,500 N
TO ACCOMPANY MEMO
Dated: April 15, 1959
By: S.N.K.
Filed:
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL EAST
Scale 1"=50'
Drawn
Date 3/10/59
Approved
File No. N-150-P-

PLATE 2

MAY 11 1959
O.M.E.

ASSAYS - SLUDGE Intercept	Wt.	oz Ag per T	% Pb	% Zn	Sample No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∠	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
								2.7/	68	400			401-402 gouge		
							402.0	4.0				?	AFTER 398' THE		
								2.9/5.0	59				CORE BECOMES		
405							407.0						BROKEN		
		N.T.	N.T.	N.T.	450 23			0.4/4.0	10				402'-411' broken		
410										410			shattered core,		
		0.1	N.T.	N.T.	450 24		411.0					30°	breccia zone-recem-		
						413.0-416.0 argillite		3.0/5.0	60				ented?		
415						grading to arg. qtzite	416.0						411-413' gouge &		
						lt green grey.							breccia. - slip at 30°		
						416.0-470 t. qtzte		2.5/5.0	50	420					
						lt grey, hard	420.0								
						occasional stringers		4.0/5.0	80			55	424 bdg at 55°		
						of argillite 457'-	425.0						424-432 locally		
						465		3.0	100				fine hairlike layers		
							429.0	3.0				75	of green argillite		
							430.0	4.0	120	430			428' bdg. at 75°		
								5.0/5.0	100			85			
						NOTE gouge at						45°	432 bdg. at 85°		
						434', 435', 437'-438'	435.0						433' gouge and		
								4.2/5.0	84				brecciated material		
							440.0			440			1" of qtz at 45°		
								4.0/4.0	100				433'-440 gg. bx & shattered core		
						474'-487' locally	440.0					90	443 gritty gouge		
						occasional thin		3.0/3.0	100				444' " " 90°		
						ribbon like green	445.0						446'-447' gouge		
						to grey argillite		4.0/4.0	100	450		60	450' bdg. 60°		
						parallel to bdg.	451.0						455'-465' - gouge		
							452.0	1.5/2.0	75				breccia & shattered		
													core.		
								3.0/5.0	60						
							457.0					0°	457° slickensides 0° to core		
								4.0/4.0	100			10	458° " 10° to core		
							460.0			460		65	462' bdg at 65°		
								3.0/4.0	75			15	slickensides at 15°		
							465.0								
							467.0	2.0/2.0	100						
										470					

TO ACCOMPANY Map No.
Dated: 8/1/62
By: [illegible]
Filed:

ASSAYS - SLUDGE: Intercept	Wt.	OZ Ag per T.	% Pb	% Zn	Sample No.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
										470					
							472.0	3.0/5.0	76						
						470'-487' qtzte.	473.0	1.0/5.0				70°	475' bdg at 70°		
						lt. grey, hard		4.0/5.0	80						
							478.0								
							480.0	2.0/4.0	100	480					
								2.8/4.0	70						
							484.0						482' gritty gouge		
								2.8/3.0	93						
						487'-505' qtzte.	487.0								
						lt. grey, hard,		4.0/4.0	100	490		60	490' bdg. at 60°		
						argillite bands	491.0						493' thin gouge		
						become more	493.0	1.8/4.0	90			0°	parallel to core - some		
						frequent and		4.8/5.0	96				silicification.		
						wider grading	498.0								
						to a dark grey		3.7/5.0	74	500		65	500' bdg. at 65°		
						to purple graph-	503.0								
						aceous quartzite		3.4/3.0	100						
						at 505'	506.0								
								2.4/4.0	60						
							510.0			510					
								2.7/3.0	90						
						505'-506' arg. qtzte	513.0					30°	513' Fe oxide slickensides 30°		
						dark grey to		3.0/3.0	100				& breccia,		
						purple	516.0					55°	517' bdg. at 55°		
						506'-508' argillite		3.0/3.0	100				513'-516' FE OXIDE		
						ppl. in color	519.0			520			AND FRACTURING		
								2.5/4.0	62				WITH SEVERAL		
						508-552 qtzte.	523.0						INCHES OF BRECCIA		
						predominates,		2.0/2.0	100						
						medium grey to	525.0					60°	& GRITTY GOUGE - 516'		
						slightly purple,		4.2/5.0	84				527' bdg. at 60°		
						locally sandy,	530.0			530			519-528 rock		
						-occasional arg.		2.4/3.0	80				bleached.		
						and arg. qtzte.	533.0								
							535.0	2.0/2.0	100						
						- becomes		1.2/3.0	40						
							538.0								
						sandy and more				540					
						argillaceous along									

ASSAYS - SLUDGE: Intercept	Wt.	Oz Ag per T.	% Pb	% Zn	Sample No.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	X	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
540										540					
		0.2	N.T.	N.T.	450025	section, argillite		1.1/6.0	18				535-550 core		
						bands wider	544.0						consists of		
545						(up to 2 inches)		1.7/3.0	56				rounded pebbles		
							547.0								
							548.0	1.5/3.0	50						
							550.0	1.5/2.0	75	550					
						552-558 argillite									
						predominates, dark		4.3/6.0	71						
						grey to purple	556.0					60	555' bdg. at 60°		
						with lighter		2.0/3.0	66						
						ribbon like layers	559.0								
						slightly sandy	561.0	1.8/2.0	90	560	xxx		560° gritty gouged		
						occasional	564.0	2.7/3.0	74				fractured core		
						layers of qtzite.,	566.0	1.3/2.0	65				"weak fault"		
						purple in color	568.0	2.0/2.0	100			60	567' bdg. at 60°		
						up to 6 inches		2.8/3.0	93	570					
						thick.	571.0								
		Lost				558-567 grading		1.7/4.0	42						
575						to an arg. qtzite.	575.0								
						at 558, medium		3.0/5.0	60						
						purple with	580.0			580		55	580 bdg. at 55°		
						numerous arg.	582.0	1.5/2.0	75						
						layers (less									
585						than 1 inch in		3.5/5.0	70						
		TR.	N.T.	N.T.	450026	width) also	587.0								
						seam layers.		2.3/5.0	46	590					
590						567-587 argillite	592.5								
		N.T.	N.T.	N.T.	450027	dark purple, a	594.0	1.3/2.0	65			33	595' qtz. siderite 1/4"		
595						few thin light to							at 33°		
						dark sandy		4.0/5.0	80			60	597 bdg. at 60°		
						layers - FROM	599.0					60	qtz siderite 1/4"		
600						575'-584' QTZTE		3.8/5.0	76	600			at 35°		
		TR	N.T.	N.T.	450028	& ARG. QTZTE.	604.0						598' slickenside of		
605						587'-602' QTZTE.		1.3/4.0	33				60° with reddish		
		TR	N.T.	N.T.	450029	light grey	606.0						coating.		
610										610					

ASSA. - SLUDGE Intercept	Wt.	Oz. Ag per T.	% Pb	% Zn	Sample No.	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
						602' breccia,		1.6/3.0	53	610		65	610' bdg at 65'		
						sandy 1½"	611.0 612.0	0.6/1.0	60				611' ½" gouge, minor		
						602-609' argillite		3.5/5.0	70						
						light grey, ppl.	617.0								
						banded									
620						609'-656' qtzte		3.1/5.0	62	620					
						light grey argil-	622.0								
		N.T.	N.T.	N.T.	450 30	laceous at 610',		1.3/3.0	43						
625						642'-645; minor	625.0								
		N.T.	N.T.	N.T.	450 31	thin bands	628.0	1.6/3.0	53						
						of argillite (less	629.0	0.6/1.0	60						
630						than 1/8" thick)				630		60	630' bdg. at 60'		
		N.T.	N.T.	N.T.	450 32	at 649'. Fe oxide		2.3/10.0	23						
635						as fracture									
		TR	N.T.	N.T.	450 33	coatings and									
						parallel to bdg	639.0								
640							641.0	2.3/2.0	115	640					
								6.5/10.0	65						
						656-661' argilla-									
650						ceous qtzte, light				650		60	650' bdg. at 60'		
						ppl	651.0								
		TR	N.T.	N.T.	450 34	661'-662' argil.		2.7/6.0	45						
655						lt. ppl.									
		TR	N.T.	N.T.	450 35	662'-671' qtzte	657.0								
						sandy bleached.		1.8/4.0	45						
660						671'-680' arg. qtzte	661.0			660		55	660' bdg. at 55'		
		TR	N.T.	N.T.	450 36	ppl.									
665						680'-696' arg. dk		5.2/9.0	36				680-696' some		
		N.T.	N.T.	N.T.	450 37	ppl.							calcareous material		
670						696-698' basic	670.0			670					
						dyke, dk. green.									
								5.0/10.0	50						
							680.0			680					

ASSAYS - SLUDGE: Intercept	Wt.	Oz Ag per T.	% Pb	% Zn	Sample No.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov
680										680					
						698' – 722' qtzite		1.7/4.0	43						
		TR	N.T.	N.T.	450 38	lt. grey locally	684.0								
685						sandy and									
		TR	N.T.	N.T.	450 39	argillaceous		2.1/6.0	35						
690						708'-710' scattered	690.0			690					
						pieces of basic									
		TR	N.T.	N.T.	450 40	dyke.		1.5/6.0	25						
695						710-722 qtzite	696.0								
		N.T.	N.T.	N.T.	450 41	grading to arg.	698.0	1.8/2.0	90						
700								1.1/4.0	28	700		60	700' bdg. at 60°		
						722-731' argillite	702.0								
		NT	N.T.	N.T.	450 42	lt. green									
705								3.3/6.0	55						
		TR	N.T.	N.T.	450 43		708.0								
710							710.0	2.3/2.0	110	710			710' shattered core		
		TR	N.T.	N.T.	450 44			2.5/3.0	83				minor gouge		
							712.0								
715							714.0	0.7/2.0	35						
		N.T.	N.T.	N.T.	450 45			1.5/4.0	37						
							719.0								
720								1.3/3.0	43	720					
							722.0								
		TR	N.T.	N.T.	450 46			2.3/4.0	57			65	726 bdg at 65°		
725							726.0								
		TR	NT	NT	450 47		728.0	1.0/2.0	50						
730						731' – 747' qtzite.		2.7/3.0	90	730			NOTE: BEGINNING OF DRILL RUNS		
						lt. grey locally	731.0						722', 726', 747' & 751'		
		TR	NT	NT	450 48	light in color		1.9/5.0	38				SHOW ±1' OF SAND AND		
735						silicified and	736.0						DYKE FRAGMENTS. – PROBABLY		
						calcareous		1.6/3.0	53				CAVE FROM FIRST INTERSECTION		
							739.0						OF DYKE (696').		
740										740					
							742.0	2.3/3.0	66						
							744.0	1.2/2.0	60						
745						747' – 755' – Sand		1.6/3.0	53						
		N.T.	N.T.	NT	450 50		747.0					70	747' bdg. at 70°		
750								1.0/4.0	25	750					
						755' - END.	750								
755		TR	NT	NT	450 51		755	2.2	55						

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1201 N. Division St.
Spokane 2, Washington

April 13, 1959

OFFICIAL FILE COPY O. M. E. RECEIVED APR 27 1959		
DATE	INITIALS	CODE
4/27	G	220
4	[illegible]	110
4/28	[illegible]	800
[redacted]		

MEMORANDUM

To: OME Field Team, Region I

From: E. G. Erickson, Mining Engineer, Bureau of Mines

Subject: Interim inspection report, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The project work was inspected April 10, 1959, accompanied by C. J. Ward, assistant mine superintendent, and S. W. Zoldok, mining engineer, Bureau of Mines.

The 3070 level east drive had been advanced 487 feet beyond survey station No. 1612 for a total advance of 2634.09 feet under the DMEA contract.

There has been no change in the ground conditions or the rock type. The rocks penetrated are argillaceous quartzites and the bedding is almost vertical striking with the line of the drive. There has been some faulting along the bedding and some cross faulting causing the ground to be short and slabby, necessitating support. The drive is timbered by standard drift sets that are placed within a few feet of the face before each blast.

No mineralization has been disclosed in the drive to date.

Measurements (3070 DE)

Previously reported to Sta. No. 1608		1,893.74 ft.
Sta. No. 1608 - 1611		132.06 "
Sta. No. 1611 - 1612		120.89 "
Sta. No. 1612 - last set	(479.00 ft.)	
Sta. No. 1612 - face		487.00 "
Resurvey correction to Sta. No. 1608		0.40
Total drift advance to 4/10/59		2,634.09 ft.

Timbering

Previous total timber advance reported to Sta. No. 1551 + 699.34 ft.	1,798.68 ft.
Sta. No. 1551 + 699.34 ft. - last set 4/10/59	301.95 "
Resurvey correction	.40 "
Total timber to 4/10/59	2,101.03 ft.

All 4 drill stations excavated to date, namely; 823XCN, 800 XCS, 767 XCN, and 751 XCS, have exceeded the allowable maximum of 25 feet per drill station.

Core Drilling

The first core hole from the end of 823 XCN had reached a depth of 755 feet; however, the hole had caved and on the date of the inspection the drillers had been able to re-enter the hole to a depth of only 423 feet. A core barrel, bit and a string of casing have been lost in the caved section between 413 feet and 455 feet. A week has been lost fishing and reaming. The drillers believed they could bypass the cave and re-enter the hole.

Rock Bolting

Previously allowed	872 bolts
Bolts allowed since last inspection	none
Total allowed to date	872 bolts

Status of contract as of April 10, 1959:

Date of contract:	Sept. 18, 1957
Termination date:	Sept. 1, 1962
Amount of contract:	$660,206.00
Amount spent:	133,459.52 (thru Feb. 1959)

Work Items	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	2,634.09 ft.
Drill stations	300 ft.	100 ft.
Core drilling	11,855 ft.	755 ft.
Car siding excavations	14,800 cu. ft.	13,463 cu.ft.
Timbering	3,950 ft.	2,101.03 ft.
Rock bolts	4,000	872

E. G. Erickson

E. G. Erickson

Distribution:
OME (4)
USGS (2)
USBM (AD)
Docket
Erickson

OME Field Team, Region I

April 6, 1959

OME Certifying Officer, Region I

American Smelting and Refining Company, Contract No. IAm-81134
Monthly operating report for February 1959

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

We have deleted 16.9 feet for diamond drill stations. Under the terms of the contract, the footage allowable to date is 100 feet or, 4 drill stations at 25-feet maximum each.

Dorothy F. Long

cc: OME (2)
USGS (2)
Contract Admin. & Audit Div. (2)
EGE
USGM (AD)

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DATE		
4-10	C	220
4/13		110
4-14		500

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1959 Docket No. DMEA 4712 Contract No. DMEA 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. % Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				4/20/59 WPK		
Drilling	2,322.00	581.00	2,903.00	2322.00	581.00	2903.00
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	4,962.13	57,386.39	62,348.52	4962.13	57386.39	62348.52
Supervision	234.82	3,337.35	3,572.17	234.82	3337.35	3572.17
Technical Services	253.00	2,114.00	2,367.00	253.00	2114.00	2367.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,488.01	14,771.52	16,259.53	1488.01	14771.52	16259.53
Explosives	1,175.29	15,179.75	16,355.04	1175.29	15179.75	16355.04
Pipe	1,117.49	17,306.26	18,423.75	1117.49	17306.26	18423.75
Track	483.37	7,287.48	7,770.85	483.37	7287.48	7770.85
Other	410.88	10,033.37	10,444.25	410.88	10033.37	10444.25
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	211.90	2,921.38	3,133.28	211.90	2921.38	3133.28
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	195.85	1,922.96	2,118.81	195.85	1922.96	2118.81
Sampling and Analysis	93.00		93.00	93.00		93.00
Payroll Taxes	242.12	2,336.17	2,578.29	242.12	2336.17	2578.29
Liability Insurance	101.64	1,601.27	1,702.91	101.64	1601.27	1702.91
Other	4,484.78	59,202.65	63,687.43	4484.78	59202.65	63687.43
(8) Contingencies (specify): Less in Excess of Maximum				696.75	7257.00	7954.75
	1702.72		2130.27			
TOTALS	~~17,776.28~~	195,981.55	~~213,757.83~~	10054.97	123404.55	133459.52

I certify that the above bill is correct and just and that payment therefor has not been received.

Date 3/16/59 *Payee American Smelting and Refining Co.

Per J. L. Kinsor Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

do not check

$ 5177.46

Signature Dorothy F. Lory
(Authorized Certifying Officer)

Date 4/6/59 Vou. No. 2287

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ Lee L. Erickson Title Mining Engr. Date 3/24/59

APPROVAL BY ~~DMEA~~ OME EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date April 1, 1959

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. & Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
		1166.93		4684.17				
Drifting ~~Crosscutting~~	Foot	9,343.79	131.7	149,998.61	2441.9	61.43	12,485	40.00
~~Crosscutting~~ DD Stations	"	~~1,922.49~~	~~26.1~~ ~~43.0~~	~~5,439.73~~	~~116.9~~ 58.8	46.53	300	35.00
~~Raising~~ Timbering	"	3,755.19	131.7	38,517.86	1919.8	20.06	3,950	10.50
~~Shafts~~ Rock Bolting	Each			6,483.06	1270*	5.10	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.	246.26	347	10,097.12	13,116	.77	14,800	.45
Drilling: ~~Core~~ AX	Foot	2,322.00	284	2,903.00	398	7.29		6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incld.	"	34.47	188	160.84	398	.40		.40
~~Stripping~~ Core Boxes	Each	~~59.08~~	14	64.58	15	~~4.31~~	290	3.40
~~Trenching~~ Assaying	Det.	93.00	93	93.00	93	1.00	4,200	1.00
Test Pits								
Roads and Trails								
		17,020.72		213,602.27				
TOTAL DISTRIBUTED COSTS		~~17,776.28~~		~~213,757.83~~				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		17,776.28		213,757.83				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date 3-16-59 Operator American Smelting and Refining Company

Per J. L. Kinnear Title Manager

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

REMARKS: *872 Rock Bolts allowable under contract.

(For Government use only)

/s/ Eric L. Erickson, 3/24/59

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
March 17, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE PROJECT
PROGRESS REPORT - FEBRUARY 1959

In the 3070 level East Page Drive, advance for February was 131.7 feet for a total of 2,441.9 feet to date. The heading encountered light-grey to purple, argillaceous quartzites which easterly become greenish in color. Numerous chloritic stringers parallel the bedding which in the present face strikes S. 85° E. and dips 85° South. (Please see Plate 1.)

The diamond drill station at approximate coordinate 12,325 E. (767 XCW) was advanced 11.7 feet to completion at 35.6 feet. The station at approximate coordinate 12,480 E. (751 XCS) was advanced 31.3 feet to completion. Rocks exposed are essentially the same as in adjacent portions of the drive.

DDH 30-823W was advanced 284.0 feet for a total of 398.0 feet to date. The hole penetrates predominantly light-grey to purple, argillaceous quartzites with interbedded argillites and quartzites. Locally the rock is sandy, moderately bleached and sericitized. Moderately strong fault zones were encountered at the following footages:

176.0' to 200.0'
228.0' to 247.0'
325.0' to 330.0'

A strong fault occurs at 331.0 feet with the rock being highly fractured through the remainder of the advance. Caving from 320 feet necessitated reaming and casing was placed to 336 feet. Caving beyond that point was caught up by the liberal application of rod grease. No significant mineralization was intersected. Plate 2 is a plan of the drill hole. Core logs for the relevant portion of the hole are also attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

Attachments:

Plate 1 - Plan, Geology of Advance in East Page Drive - 1" = 50'
Plate 2 - Plan, Geology of Advance in DDH 30-823W - - - 1" = 50'
Core Log, DDH 30-823W - - - - - - - - - - - - - 120' to 400'

DIETZGEN - NO 352-107

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	11450	173032	184482
Bits	7473	284852	292325
Hose and Fittings		27792	27792
Other		1859	1859
Total Drilling	18923	487535	506458
Rock Bolting:			
Bolts 4'			
Bolts 6'		283592	283592
Total Rock Bolts	-	283592	283592
Other Supplies:			
Cap Lamps	1001	14871	15872
Hand Tools	2138	2548	4686
Miscellaneous	5908	16245	22153
Total Other Supplies	9047	33664	42711
Power:			
Lighting	207	2711	2918
Auxiliary Ventilation	582	8113	8695
Compressed Air	12329	187722	200051
Total Power	13118	198546	211664
Total Category 3 - Other Supplies	41088	1003337	1044425
Category 7 - Other:			
Underground Haulage	129013	1600758	1729771
Interior Hoisting	-	121500	121500
Main Hoisting	82498	1434739	1517237
Surface Haulage	9314	178301	187615
Drainage	15319	296391	311710
Main Ventilation	6586	144193	150779
Life Insurance	6251	78433	84684
Health and Accident Insurance	26818	278589	305407
Vacation Allowances	26862	282141	309003
Holidays	32365	263202	295567
Pension Accruals	70596	917904	988500
Dry Room	17809	79940	97749
First Aid	3194	19989	23183
Medical-Surgical	11507	90172	101679
Timekeeping and Warehouse	10346	134013	144359
Total Category 7 - Other	448478	5920265	6368743

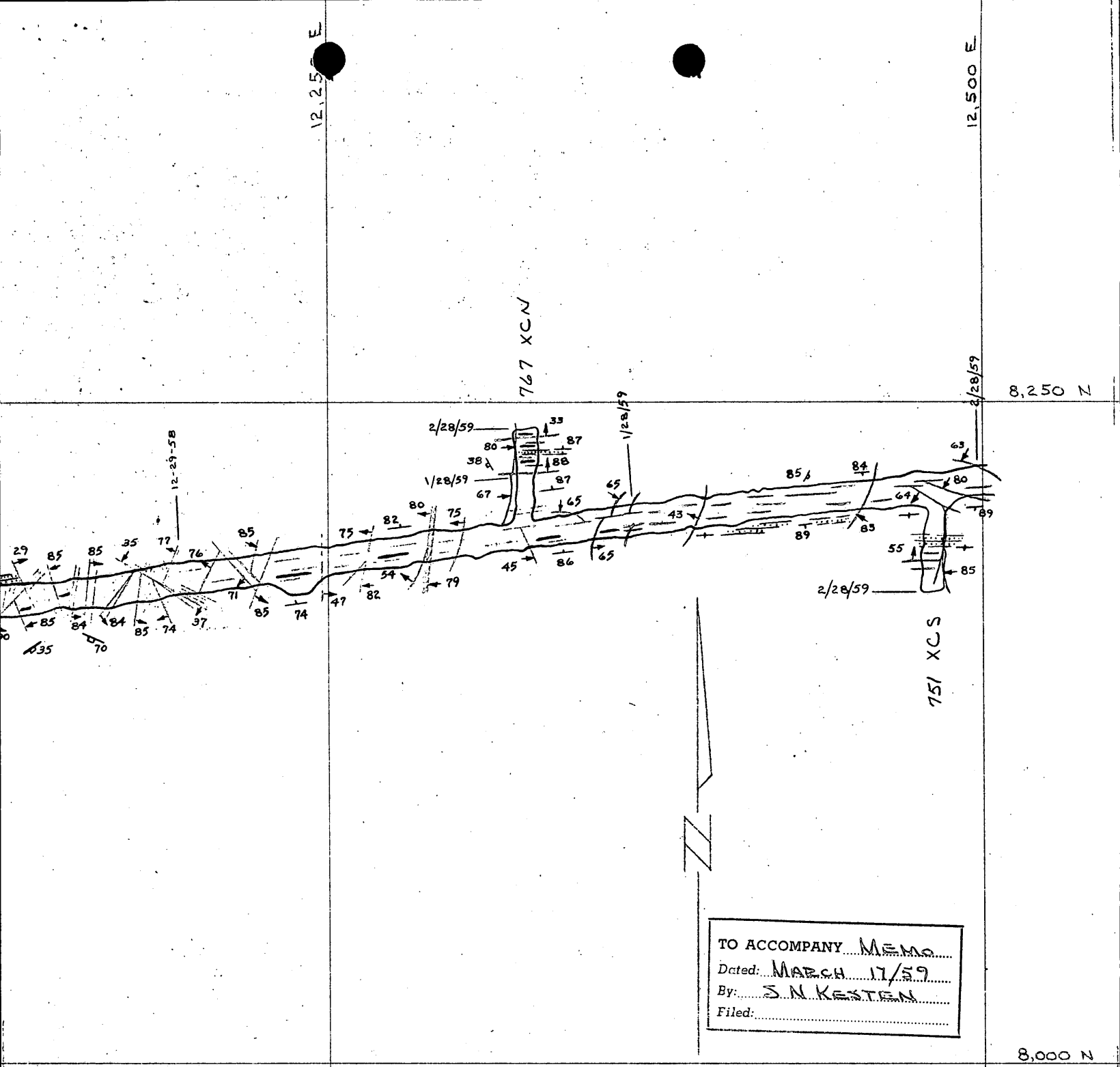
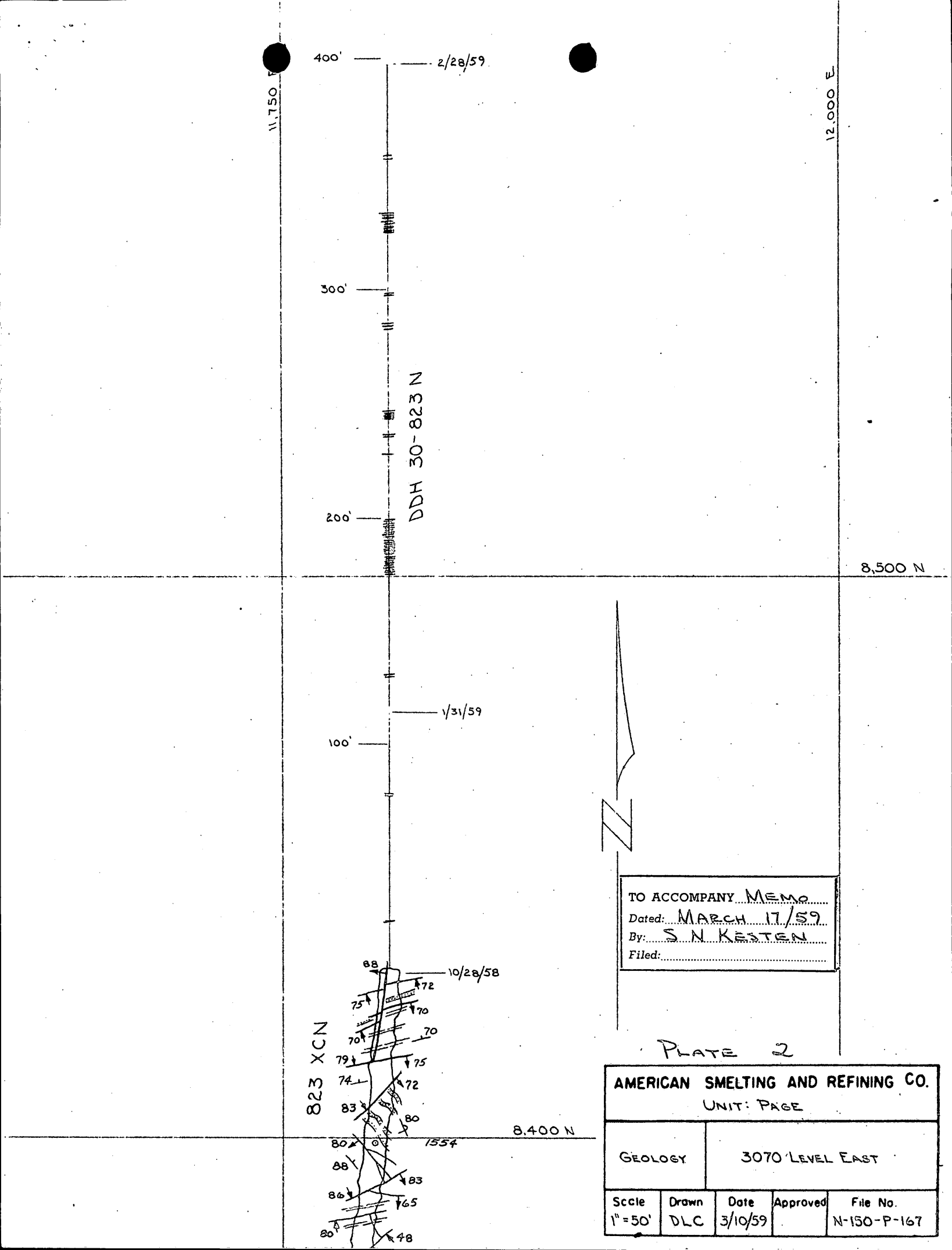


PLATE 1

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 3-10-59	Approved SNK	File No. N-150-P-168


400'
2/28/59
11,750 E
12,000 E
300'
DDH 30-823 N
200'
8,500 N
1/31/59
100'
TO ACCOMPANY MEMO
Dated: MARCH 17/59
By: S N KESTEN
Filed:
10/28/58
823 XCN
8,400 N
1554
PLATE 2
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL EAST
Scale 1" = 50'
Drawn DLC
Date 3/10/59
Approved
File No. N-150-P-167

ASSAYS - SLUDGE Intercept	Wt.	oz Ag per t	% Pb	% Zn	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov
120					136.0 - 141.0 argil.		1.7/5.0	34	120					
					quartzite - light	123.0								
		N.T.	N.T.	0.4	to dark purple		1.3/3.0	43			60°	bedding at 125.0'		
125					weakly altered.	126.0	1.9/2.0	95						
		N.T.	N.T.	N.T.		128.0	2.0/2.0	100			35	at 129' minor slips pyrite		
130						130.0			130		20° 65	bedding at 131.0'		
							3.2/4.0	80						
						134.0								
					141.0 - 161.0 argillaceous	136.5	1.4/2.5	56						
					quartzite light	138.0	1.3/1.5	87			75°	bedding at 138.0'		
140					grey in color grad-		2.2/3.0	73	140					
					ing to a light	141.0								
		0.5	N.T.	N.T.	green by 150'.	143.0	1.8/2.0	90						
145						144.0	1.0/1.0	100						
		N.T.	N.T.	N.T.		147.5	1.4/3.5	37						
150						149.0	0.8/1.5	53	150		80°	bedding at 150.0'		
						151.5	1.9/2.5	76						
						153.0	1.9/1.5	127						
						154.0	0.8/1.0	80						
						159.0	4.2/5.0	84						
						160.0	1.0/1.0	100	160		70	bedding at 160.0'		
							2.1/2.5	84						
					161.0 - 191.0'	162.5	/2.5				70	bedding at 163.0'		
165					quartzite, argillite	166.0	2.9/3.5	57						
		Tr	N.T.	0.2	and argillaceous		1.0/							
170					quartzite - light	170.0	4.0	25	170					
		N.T.	N.T.	N.T.	to dark purple		0.8/2.0	40			80	bedding at 171.0		
175						172.0								
						174.0	1.2/3.0	40						
		0.1	N.T.	N.T.		176.0	1.0/1.0	100						
180							1.4/	20	180					
		N.T.	N.T.	N.T.			7.0							
						183.0								
185							2.4/3.5	69						
						186.5								
190		Tr	N.T.	0.4					190					

TO ACCOMPANY MEMO
Dated MARCH 17/59
By: S.N. KESTEN
Filed

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG		DESCRIPTION	ASSAYS - CORE					
Intercept	Wt.	oz Ag per T	% Pb	% Zn		LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov				
190								1.6/4.5	36	190			176.0 - 200.0 core loss						
		N.T.	N.T.	N.T.		191.0' - 219.0 argil.	191.0						plus gouge at 191.0'						
						qtzte light purple		1.6/4.0	40				indicates possible						
195						to grey, with	195.0						fault zone						
		N.T	N.T.	N.T.		thin layer (less	198.0	1.4/3.0	47										
200						than inch thick)	200.0	2.0/2.0	100	200			bedding at 200.0'						
						of green-grey	202.0	2.2/2.0	110			85	219.5 - 220 broken						
						argillite - locally	204.0	2.6/2.0	130				rock. gritty gouge at 220'						
						weakly to mod-	206.0	1.4/2.0	70										
						erately bleached.		2.2/3.0	73										
						WHERE THE ALTERA-	209.0 / 210.0	1.4/1.8	140	210									
						TION IS MOST INTENSE		2.4	80										
						THE CORE IS QUITE	212.0 / 214.0	3.0 / 2.0	130										
+2.0						BROKEN.	215.0	1.1/1.0	110										
								2.7/4.0	67										
						219.0 - 234.0 qtzte	219.0 / 220.0	1.5/1.0	150	220									
						light grey, slightly	222.0	2.0/2.0	100										
						altered, hairlike	224.0	1.9/2.0	95										
225						light colored bands	226.0	1.9/1.0	100										
		0.2	N.T.	N.T.		parallel to bedding	227.5	0.8/2.5	35			?	at 228' gouge &						
						argillite	229.0	0.75/2.5	33				broken core						
230								1.7/2.5	68	230									
							231.5					80							
							234.0	3.2/2.5	128				at 236 gouge						
						234.0 - 256.0 sandy		3.0/3.0	100				argillite & 1 inch of						
						argillite with	237.0					75	brecciated quartzite						
240						wavy ribbon like	240.0	2.8/3.0	93	240		85							
						argillaceous bands		3.2	80				244 - 247' core						
		TR	N.T.	N.T.		light purple to	244.0	4.0					broken, sandy						
245						grey. - wk to strg alt.		1.2/3.0	40				possible fault?						
		TR	N.T.	N.T.		at 240' 2 inches qtz	247.0												
250						at 253' - 255	250.0	2.7/3.0	90	250									
						silicified section	252.0	2.0/2.0	100										
						quartzite.		4.9/4.5	109			70							
						256.0 - 266.0 grades	256.0 / 258.0	1.6/1.5	107										
						to a quartzite													
						dark grey to	260			260									
						purple with													

ASSAYS - SLUDGE Intercept	Wt.	Oz Ag per T	% Pb	% Zn	DESCRIPTION LITHOLOGY, ALTERATION, MISC.	RECOVERY Drill Run	Core	%	FT.	GRAPHIC LOG	∡	DESCRIPTION VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE Intercept	% Recov.
					wavy bands of				260					
					argillite	262.0	4.3/4.0	107						
						264.0	1.3/2.0	65						
					266.0 - 296.0 light		1.7	51						
					grey to purple	267.0	3.0							
						268.0	1.1/1.0	110			75°			
					interbedded qtzite	270.0	1.9/2.0	95						
					and argill. qtzite	271.0	.05/1.0	70	270					
					with numerous		3.6/4.0	90						
					purple grey to	275.0								
						276.0	1.5/1.0	150						
					green argillite	277.5	2.0/1.5	75			75°			
					at 269 & 273 1"-2"	280.0	2.5/2.5	100	280					
					sandy material.		3.0/	100						
						283.0	3.0				?	283' gouge bedding?		
							2.3/							
					Rock grades to	285.0	2.0	111			?			
					a light green	286.0	2.0/3.0	66			75°	284 & 285' gouge &		
					argillite 294.0 -	290.0	1.4/2.0	70	290			slickensides		
					296.0'		2.1/	70						
						293.0	3.0				75°			
							1.9							
					296.0' - 334.0'	295.5	2.5	76						
					light grey quartzite		4.0	114						
300					sparse bands of	298.0	3.5		300		75°	298' - 299' shear or		
					argillite		3.0/4.0	75				minor gouge		
		0.12	N.T.	N.T.	325' - 330 - one	304.0								
305					piece of core - light									
		0.16	N.T.	N.T.	grey to purple		2.4/5.0	48						
310					argillite	309.0			310					
							3.2/5.0	64						
		0.10	N.T.	N.T.		314.0								
315							1.6/5.0	32						
		0.8	N.T.	N.T.										
						319.0					75°	bedding 75° - 50°		
320									320					
		N.T.	N.T.	N.T.		322.0	1.0/2.0	50			50°			
							0.6/3.0	20				325.0' - 330.0 core		
325						325.0						loss indicates probable		
		0.4	N.T.	0.1			0.1/5.0	02				fault zone		
330						330.0			330					

ASSAYS - SLUDGE						DESCRIPTION	RECOVERY			FT.	GRAPHIC LOG	∡	DESCRIPTION	ASSAYS - CORE	
Intercept	Wt.	oz Ag per T	% Pb	% Zn	Sample No.	LITHOLOGY, ALTERATION, MISC.	Drill Run	Core	%				VEINS, MINERALIZATION, FAULTS	Intercept	% Recov
								2.3/2.5	92	330		?	331 - 332.5 broken core, gouge		
						334.0'-355.0' light grey interbedded quartzite and argillaceous qtzite gradational inter-bedding.	332.5					70°			
								3.1/4.5	69						
							333.0								
								2.9/4.5	64	340					
							341.5					65°			
								3.3/4.5	73						
							346.0								
								2.8/5.0	56						
										350		65°			
							351.7								
						355.0 – 365.0' med. grey argill. quartzite with numerous wavy bands of argillite		2.6/4.0	65						
							355.0 356.0	1.9/1.0	100						
								2.4/4.0	60			80 85	357' two poorly defined qtz. stringers at 1" & 1½" respectively.		
360							360.0			360					
								1.6/3.0	51			65°			
		0.02	N.T.	N.T.		poor core recovery	363.0	0.3/2.0	15				363' presence of 1/4 inch crystaline pyrite.		
365							365.0								
		0.14	N.T.	N.T.		365.0' – 376.0 core of grouvert and rounded pebbles purple & light grey quartzite, also green to purple argillite & argillaceous qtzite		1.2/5.0	24						
370							370.0'			370					
		0.20	N.T.	N.T.				0.7/3.0	23						
							373.0								
375							376.0	0.4/3.0	13						
		N.T.	N.T.	N.T.	45021		378.0	2.0/2.0	100			55	377' bdg at 55°		
380							381.0	3.0/3.0	100	380					
								3.3/4.0	82						
385						376.0 – 413.0 arg. pred. lt. green to purple, locally sandy and bleached, narrow occasional qtzte, medium ppl., locally sandy and argill-aceous.	385.0					65°	385' bdg. at 65°		
		0.6	NT	NT	45022			2.3/5.0	46						
390							390.0			390					
								3.7/5.0	74			65	394' shear zone? parallels bedding		
							395.0								
							398.0	2.8/3.0	93						
										400					

Form MF-104 (Rev.)
(April 1952)

MAR 12 1959 O.M.E.

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January 1959 Docket No. DMEA 4712 Contract No. ITM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N. Y. & Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				3/23/59 W.P.R.		
Drilling	581.00		581.00	581.00	—	581.00
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	6,103.87	51,282.52	57,386.39	6103.87	51,282.52	57386.39
Supervision	252.60	3,084.75	3,337.35	252.60	3084.75	3337.35
Technical Services	233.00	1,881.00	2,114.00	233.00	1881.00	2114.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,735.61	13,035.91	14,771.52	1735.61	13035.91	14771.52
Explosives	1,447.45	13,732.30	15,179.75	1447.45	13732.30	15179.75
Pipe	926.18	16,380.08	17,306.26	926.18	16380.08	17306.26
Track	533.39	6,754.09	7,287.48	533.39	6754.09	7287.48
Other	489.61	9,543.76	10,033.37	489.61	9543.76	10033.37
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	211.90	2,709.48	2,921.38	211.90	2709.48	2921.38
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	400.66	1,522.30	1,922.96	400.66	1522.30	1922.96
Sampling and Analysis						
Payroll Taxes	288.35	2,047.82	2,336.17	288.35	2047.82	2336.17
Liability Insurance	120.91	1,480.36	1,601.27	120.91	1480.36	1601.27
Other	4,973.91	54,228.74	59,202.65	4973.91	54228.74	59202.65
(8) Contingencies (specify): Less in excess of Maximum				7134.89	64543.11	72277.00
TOTALS	18,298.44	177,683.11	195,981.55	10563.55	113,141.00	123704.55

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Feb. 20, 1959 *Payee American Smelting and Refining Company

Per J. L. Hinson Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5281.78

Signature Dorothy F. Fox
(Authorized Certifying Officer)

Date 3/5/59 Vou. No. 2282

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /s/ Eric L. Erickson Title Mining Engr Date 4/24/59

APPROVAL BY ~~DMEA~~ ONE EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date March 2, 1959

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. & Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	12,062.98	175.8	140,654.85	2310.2	60.88	12,485	40.00
~~Crosscutting~~ DD Station	"	1,110.37	25.7	3,517.24	73.9	47.59	300	35.00
~~Raising~~ Timbering	"	4,113.60	175.8	34,762.67	1788.1	19.44	3,950	10.50
~~Shafts~~ Rock Bolting	Each	59.84		6,483.06	1270*	5.10	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.	238.78	347	9,850.86	12,769	.77	14,800	.45
Drilling: ~~Core~~ AX	Foot	581.00	114	581.00	114	5.10	)	6.60
~~Churn~~ EX	"						)11,855	6.40
~~Auger~~ Ineid.	"	126.37		126.37		1.11	)	.40
~~Stripping~~ Core Boxes	Each	5.50	1	5.50	1	5.50	290	3.40
~~Trenching~~ Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		18,298.44		195,981.55				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		18,298.44		195,981.55				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Feb. 20, 1959 Operator American Smelting and Refining Company

Per J. L. Kinsor Title Manager

REMARKS: * 872 Rock Bolts allowable under contract

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

I/S/ Eric L. Erickson, 2/24/59

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

DIETZGEN — NO. 352-107

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January 1959 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	4498	168534	173032
Bits	18212	266640	284852
Hose and Fittings		27792	27792
Other		1859	1859
Total Drilling	22710	464825	487535
Rock Bolting:			
Bolts 4'			
Bolts 6'	5984	277608	283592
Total Rock Bolts	5984	277608	283592
Other Supplies:			
Cap Lamps	1001	13870	14871
Hand Tools	941	1607	2548
Miscellaneous	8232	8013	16245
Total Other Supplies	10174	23490	33664
Power:			
Lighting	210	2501	2711
Auxiliary Ventilation	639	7474	8113
Compressed Air	9244	178478	187722
Total Power	10093	188453	198546
Total Category 3 - Other Supplies	48961	954376	1003337
Category 7 - Other:			
Underground Haulage	134914	1465844	1600758
Interior Hoisting		121500	121500
Main Hoisting	98105	1336634	1434739
Surface Haulage	11616	166685	178301
Drainage	28748	290507	296391
Main Ventilation	6248	137945	144193
Life Insurance	6915	71518	78433
Health and Accident Insurance	29584	249005	278589
Vacation Allowances	29785	252356	282141
Holidays	36708	226494	263202
Pension Accruals	78286	839618	917904
Dry Room	15206	64734	79940
First Aid	169	19820	19989
Medical-Surgical	9636	80536	90172
Timekeeping and Warehouse	11471	122542	134013
Total Category 7 - Other	497391	5422874	5920265

Wallace, Idaho
February 20, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE PROJECT
PROGRESS REPORT - JANUARY 1959

In the 3070 East Page Drive, advance for January was 175.8 feet for a total of 2,134.4 feet to date. The heading cuts light-grey to purple argillites which locally are moderately bleached and sericitized. The bedding and numerous bedding-plane faults strike approximately N. 85° E. and dip 85° to 88° North. The rock is cut by several sets of well developed joints and numerous cross faults. The strongest of these faults, exposed approximately 80 feet west of the present face, strikes north and dips 80° West. The structure consists of up to 2 feet of slightly chloritic, gritty gouge with heavy smears of dark-green to grey gouge on both walls. Several 1/4- to 1/2-inch wide, lenticular, quartz-siderite stringers occur along bedding-plane partings. (Please see Plate 1.)

The diamond drill station at 11,990 E, 800 XCS, was advanced 5.1 feet to a total of 28.3 feet, to fulfill the requirements of the drillers for a 20-foot pull. The rocks are essentially the same as in the main drive.

The diamond drill station at 12,325 E, 767 XCS, was driven 23.9 feet. The rocks in the crosscut are essentially as in the main drive.

DDH 30-823N was collared at the face of 823 XN and advanced 114.0 feet. (Please see Plate 2.) The rocks penetrated are purple argillite and light-grey to purple, argillaceous quartzites, which locally are moderately bleached and sericitized. The bedding is generally at 75° to 80° to the core, but varies from 65° to 85°. Core recovery was relatively poor to 61 feet, averaging 61%. However, there was no positive evidence of faulting or shearing and it is presumed that the softer portions of the rock were washed out. Sludge sampling was not begun until 80 feet, but there is no evidence in the core of the proximity of veining or mineralization. Between footage 61 and 114.5, core recovery was much better, approximating 100%. By inadvertence, all the sludge from 80 feet was assayed and that for 110 to 115 feet showed 3.6 oz. Ag per ton. This is believed to be because of the use of a dirty bag, and in the future, new or laundered bags will be used. However, the core from this section will be split and assayed.

The core log for the drilling advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN
S. NORMAN KESTEN

Attachments: Plate 1 - Plan, Advance in East Page Drive - - 1" = 50'
Plate 2 - Plan, Advance in DDH 30-823N - - - 1" = 50'
Core Log, DDH 30-823N - - - - - - - 0' to 120'

American Smelting and Refining Company
DIAMOND DRILL HOLE LOG

Sheet 1 of

Property: PAGE
Location: 3070 - E PAGE DRIVE
Coord.-Collar E. 11,798
N. 8,324
Elev.-Collar
Date-Started: Jan 27, 1959
Completed

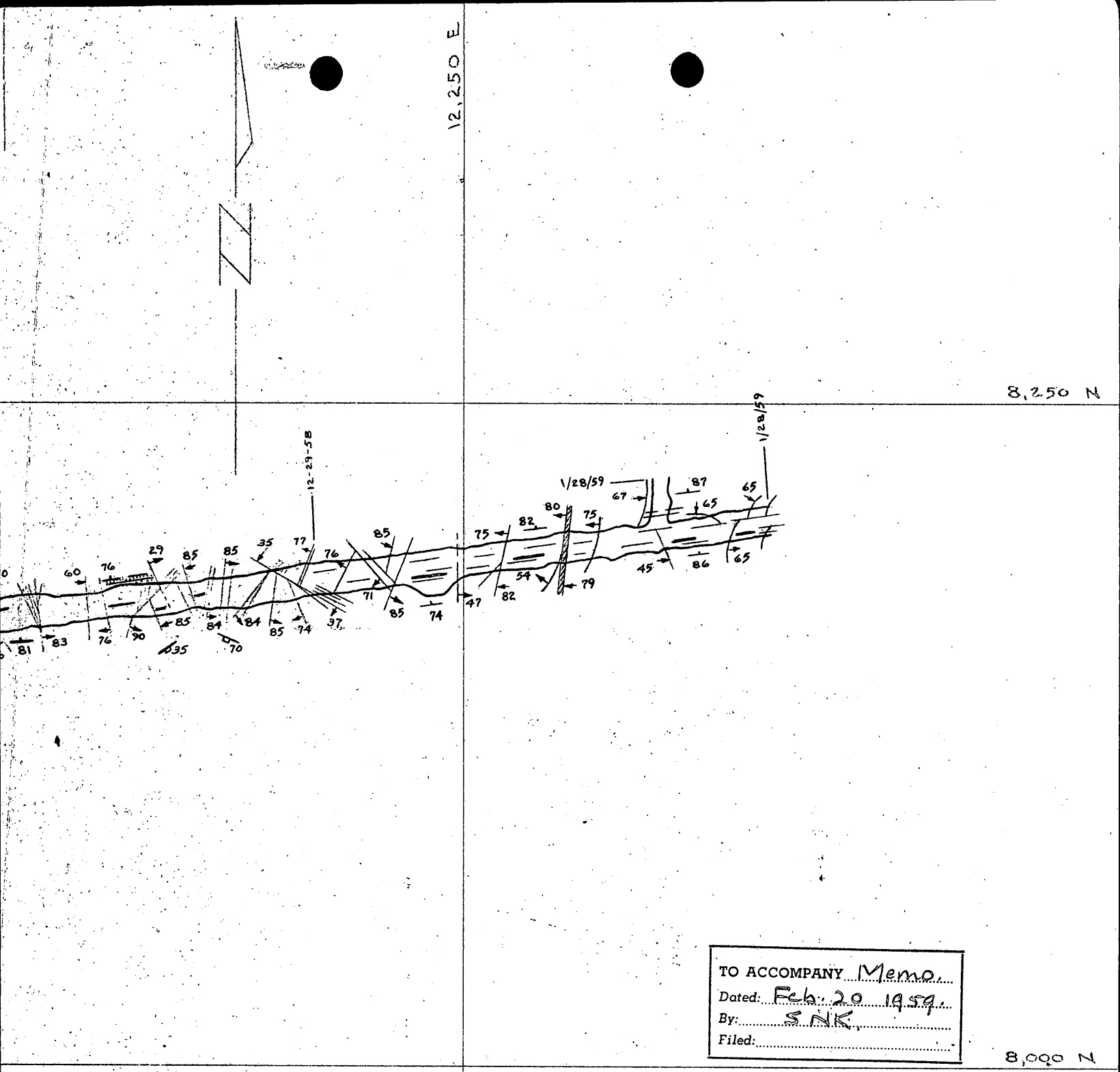
Hole No. DDH 30-823N
Bearing: North (Approx)
Inclination: 0°
Length
Core Size: BX
Logged by: SHH, DMF

ASSAYS - SLUDGE: Intercept	Wt.	DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	<	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
		0-3' NX CASING									
		3.0'-55.6' light	3.0								
		green to grey		2.1/5.0	42						
		argillaceous	8.0								
		quartzite & argillite		3.1/4.0		10		85	bedding at 85° to core		
		locally strongly	12.0		78						
		bleached with	14.0	1.4/2.0	70			65°	@ 14' bedding		
		several bands of	16.0	1.4/2.0	70						
		purple colored		1.7/3.0	57						
		argillite and	19.0								
		quartzite.	21.5	1.4/2.5	56	20		30°	@ 21.5' two slickensides separated by 1 inch of brecciation.		
		16'-21' purple band	22.0	1.5/1.5	100						
		ing grading into	26.0	2.0/3.0	67			85°	@ 25' bedding		
		a strongly bleached		1.7/3.0	57						
		zone.	29.0								
			30.0	1.3/1.0	130	30					
		34'-37' purple band		1.7/3.0	57						
		of argillite with	33.0								
		some argillaceous	35.0	2.2/3.0	73			65°	@ 35' bedding		
		quartzite grading	37.0	2.0/2.0	100						
		to a light grey-	39.0	3.0/2.0	150						
		buff bleached		0.4/3.0	13	40					
		sandy rock.	42.0								
				1.0/5.0	20						
			47.0								
			49.0	0.4/2.0	20						
			50.0	0.8/1.0	80	50					

TO ACCOMPANY Memo
Dated: Feb 20, 1959
By: SNK
Filed:

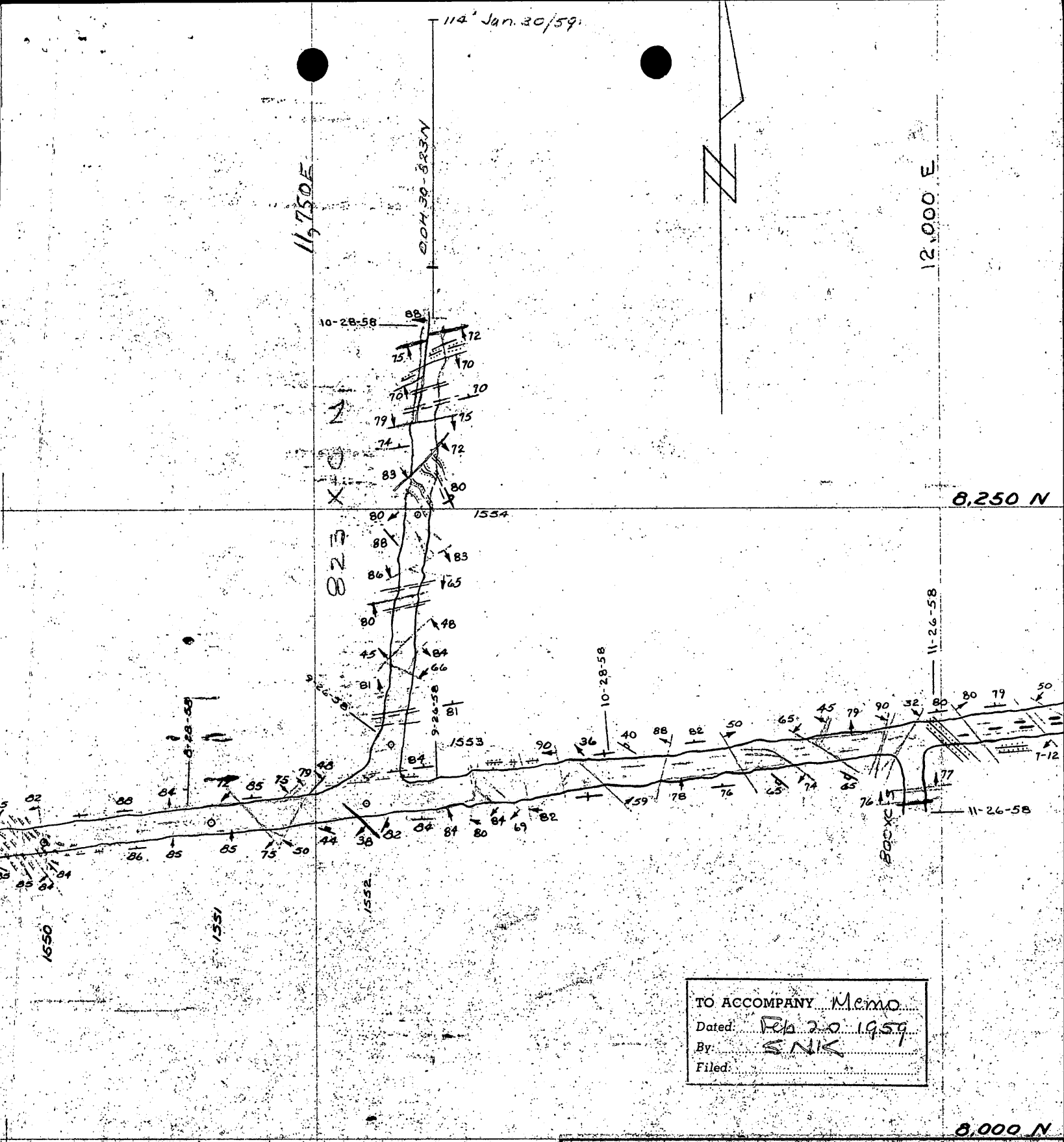
ASSAYS - SLUDGE: Intercept	Wt.	Oz Au/T	% Pb	% Zn		DESCRIPTION: LITHOLOGY, ALTERATION, MISC.	RECOVERY: Drill Run	Core	%	FT.	GRAPHIC LOG	∠	DESCRIPTION: VEINS, MINERALIZATION, FAULTS	ASSAYS - CORE: Intercept	% Recov.
										50					
								1.2/3.5	34						
							53.5								
						55.6'-72.0 deep	55.5	0.6/2.0	30						
						purple argillite	58.0	2.1/2.5	84						
						and argillaceous		2.0/3.0	67	60					
						quartzite	61.0								
							62.0	1.8/1.0	180						
								2.7/3.0	90						
							65.0								
								2.0/2.0	100						
							67.0								
							68.0	1.2/1.4	120						
							70.0	1.8/2.0	90	70					
						72.0-102.0 argillaceous	72.0	2.2/2.0	110						
						quartzite and	74.0	2.0/2.0	100						
						quartzite, light		4.3/3.0	143			75°	@ 75' bedding		
						grey with occas-	77.0					40°	@ 77' thin, crushed quartz		
						ional intercepts		2.6/3.0	87				seam - less than 1/8".		
80							80.0			80					
		0.4	N.T.	N.T.		of light purple.-		4.6/4.0	115			75°	@ 81' bedding		
						generally fine	84.0					80°	@ 83' bedding		
85						grained but where		4.0/4.0	100						
		0.5	N.T.	N.T.		altered a coarser	88.0								
						sandy texture		5.0/5.0	100	90					
90															
		0.7	N.T.	N.T.		predominates.									
						89'-90' argillite	90.0					80°	@ 93' bedding		
						86'-88' ironstained,		2.6/3.0	87						
95							96.0								
		0.5	N.T.	N.T.		coarse spotted app-		3.2/5.0	64						
						earance - gritty									
100										100					
		0.3	N.T.	N.T.		textured - mottled.	101.0								
							102.0	1.4/1.4	100						
						water course?		4.5/4.0	113						
105						102.0-111.0 argillite &	106.0								
							106.0	0.6/1.0	60						
		0.2	N.T.	N.T.		arg. qtzite - dark purple		2.4/2.5	96						
						104.5-105.5 brecciated,	109.5						111 bedding		
110										110					
		3.6	N.T.	N.T.		mod. to strongly alt.		5.0/5.0	100			80			
						quartzite also 107-107.3							111.0- occasional		
115						111.0-136.0 arg. quartzite	114.5						lenticular - light colored		
												80	structures, with a		
		NT	N.T.	0.4		light grey - zone		3.0/3.5	86						
						is weakly bleached,	118.0	86		120			tints of purple		
120						locally sandy.									

TO ACCOMPANY Memo
Dated: Feb 20 1959
By: S.N.K.
Filed:



TO ACCOMPANY Memo.
Dated: Feb. 20 1959.
By: SNK.
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 2-11-59	Approved SNK	File No. N-150-P-168



AMERICAN SMELTING AND REFINING CO.

UNIT: PAGE

GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 2-11-59	Approved SNK	File No. N-150-P-167

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1201 N. Division St.
Spokane 2, Washington

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAR 9 1959

DATE	INITIALS	CODE
3-9	C	220
"		110
3/10		800
3/11		500

February 11, 1959

MEMORANDUM

To: OME Field Team, Region I

From: E. G. Erickson, Mining Engineer, Bureau of Mines

Subject: Interim inspection report, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was inspected February 10, 1959, accompanied by Mr. A. T. Combs, assistant manager of the company's Northwest operations, and Troy Tower, mine superintendent.

The 3070 level east drive had been advanced 439 feet and the timber 430 feet beyond survey station No. 1608. The total length of the drive under the contract is 2332.66 feet.

The bedding is almost vertical and the direction of the drive is parallel. The walls are slabby and there are numerous gouge seams indicating movement. The ground may be classified as quite short and blocky argillaceous quartzite. Support is necessary and standard type drift sets are used. The caps are 7'6", and the posts are 8 feet long and slightly battered toward the walls. Sets are 5-foot center to center except at car stations, where a 6-foot set will be placed to accommodate the newly acquired Granby self-dumping type mine cars.

Measurements (3070 DE)

Drift advance:

Starting point of contract - Sta. No. 1605 1/	1624.40 ft.
Sta. No. 1605 - 1606	93.48 "
Sta. No. 1606 - 1608	175.86 "
Sta. No. 1608 - face	439.00 "
Total drift advance to 2/10/59	2332.74 ft.

1/ Sta. No. 1605 replaced Sta. No. 1551 and Sta. No. 1552 omitted in resurvey.

Note: Rock sections reported in the last interim report dated December 24, 1958, are incorrect. The untimbered rock sections are $7\frac{1}{2}$'x$9\frac{1}{2}$', and the timbered rock sections are 10'x10'. (minimum sections)

Measurements (3070 DE) (continued)

Timber advance:

Total timber previously reported to Sta. 1551+406.96'	1506.3 ft.
Sta. 1551+406.96' - last set (2/10/59)	292.38 "
Total timber to 2/10/59	1798.68 ft.

3070 - 800 XCS (drill station No. 2) 7'x9'

Number 2 drill station crosscut was extended to a total length of 27.5 feet.

3070- 767 XCN (drill station No. 3) 7'x9'

Drill station crosscut was driven a total of 35.3 feet without support at least for the present.

Core Drilling

The first drill hole from the end of 3070-823 XCN had reached a depth of 342 feet. No significant ore mineralization has been exposed to date. Core recovery was reported to be about 70 percent. Log of hole and pertinent data will be submitted when hole is completed.

The drillers are using a steel sludge box having 2 rows of 4 baffled compartments which allows sludge to be collected in one row while the sample is taken from the other row.

Rock Bolting

Previously allowed	872
Additions since last inspection	None
Total allowed to date	872

Status of contract as of February 10, 1959:

Date of contract: Sept. 18, 1957 Amount of contract: $660,206.00
Termination date: Sept. 1, 1962 Amount spent: 113,141.00 (thru Dec. 1958)

Work Items	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	2332.74 ft.
Drill stations	300 ft.	75 ft.
Core drilling	11,855 ft.	342 ft.
Car siding excavations	14,800 cu.ft.	12,022 cu.ft.
Timbering	3,950 ft.	1,798.68 ft.
Rock bolts	4,000	872

E. G. Erickson

E. G. Erickson

Distribution:
OME (4)
USGS (2)
USBM (AD)
Docket
Erickson

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

FEB 2 1959 OME

Month of December, 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. % Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				2/5/59		
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	6,165.20	45,117.32	51,282.52	6165.20	45117.32	51282.52
Supervision	270.88	2,813.87	3,084.75	270.88	2813.87	3084.75
Technical Services	139.00	1,742.00	1,881.00	139.00	1742.00	1881.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,916.39	11,119.52	13,035.91	1916.39	11119.52	13035.91
Explosives	1,163.89	12,568.41	13,732.30	1163.89	12568.41	13732.30
Pipe	2,203.57	14,176.51	16,380.08	2203.57	14176.51	16380.08
Track	668.26	6,085.83	6,754.09	668.26	6085.83	6754.09
Other	638.54	8,905.22	9,543.76	638.54	8905.22	9543.76
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	211.90	2,497.58	2,709.48	211.90	2497.58	2709.48
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	53.21	1,469.09	1,522.30	53.21	1469.09	1522.30
Sampling and Analysis						
Payroll Taxes	144.54	1,903.28	2,047.82	144.54	1903.28	2047.82
Liability Insurance	143.86	1,336.50	1,480.36	143.86	1336.50	1480.36
Other	5,331.34	49,126.04	54,457.38	5102.70	49126.04	54228.74
(8) Contingencies (specify): Less Sick Leave of Motinum				838.04	5534.87	6372.91
TOTALS	19,050.58	158,861.17	177,911.75	10483.80	102657.20	113141.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date January 16, 1959 Payee American Smelting and Refining Company

Per J. C. Kiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5241.90

Signature Dorothy F. Fay
(Authorized Certifying Officer)

Date 1/23/59 Vou. No. 2274

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature 1st Eric H. Erickson Title Mining Engr. Date 1/21/59

APPROVAL BY ~~DMEA~~ OME EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st A. E. Weissenborn Title Exec. Officer Date 1/22/59

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

FEB 2 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name American Smelting and Refining Company Minerals Lead and Zinc

Address 120 Broadway, New York 5, N. Y. & Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting-Crosscutting	Foot	14 190.54 ~~14,419.18~~	207.6	128 591.87 ~~128,820.51~~	2134.4	60.35	12,485	40.00
Crosscutting-D.D.Station	"			2,406.87	48.2	49.94	300	35.00
Raising-Timbering	ft	4,273,30	207.6	30,649.07	1612.3	19.01	3,950	10.50
Shafts-Rock Bolting	Each	358.10	-	6,423.22	1270*	5.06	4,000	3.50
Winzes-Car Sidings	Cu.Ft.			9,612.08	12,422	.77	14,800	.45
Drilling: Core-AX	Foot						}	6.60
Core-EX	"						}11,855	6.40
Auger-Incid.	"						}	.40
Stripping-Core Boxes	Each						290	3.40
Trenching-Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		18 821.94 ~~19,050.58~~		177 683.11 ~~177,911.75~~				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		18 821.94 ~~19,050.58~~		177 683.11 ~~177,911.75~~				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date January 16, 1959 Operator American Smelting and Refining Company

Per J. L. Hoover Title Manager

REMARKS: * 872 Rock Bolts Allowable under contract

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Eric G. Erickson, Mining Engr.

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
January 20, 1959

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE PROJECT
PROGRESS REPORT - DECEMBER 1958

In the 3070 East Page Drive, advance for December was 207.6 feet for a total of 2,134.4 feet to date. The heading encountered light-grey to purple argillites and argillaceous quartzites which locally are highly sericitized and moderately bleached. The bedding and numerous weak to moderate bedding-plane faults strike N. 85° E. and dip steeply to the north. The rock is highly fractured and cut by a well developed set of joints and numerous cross faults. The strongest of these faults, exposed several feet west of the last face mapped, strikes N. 60° W. and dips 35° SW. Two basic dikes, 6 inches to 14 inches wide, striking N. 20° E. and N. 20° W. lying nearly vertical, were encountered early in the advance. These dikes may be the downward extension of the group of dikes that is exposed on the extreme east end of the Tony vein on and above the 2565 intermediate level. Several 1/4-inch to 1/2-inch wide, discontinuous, quartz-siderite stringers occur along bedding-plane partings.

A 50-scale map showing the geology of the advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

"DIETZGEN" NO. 352-107

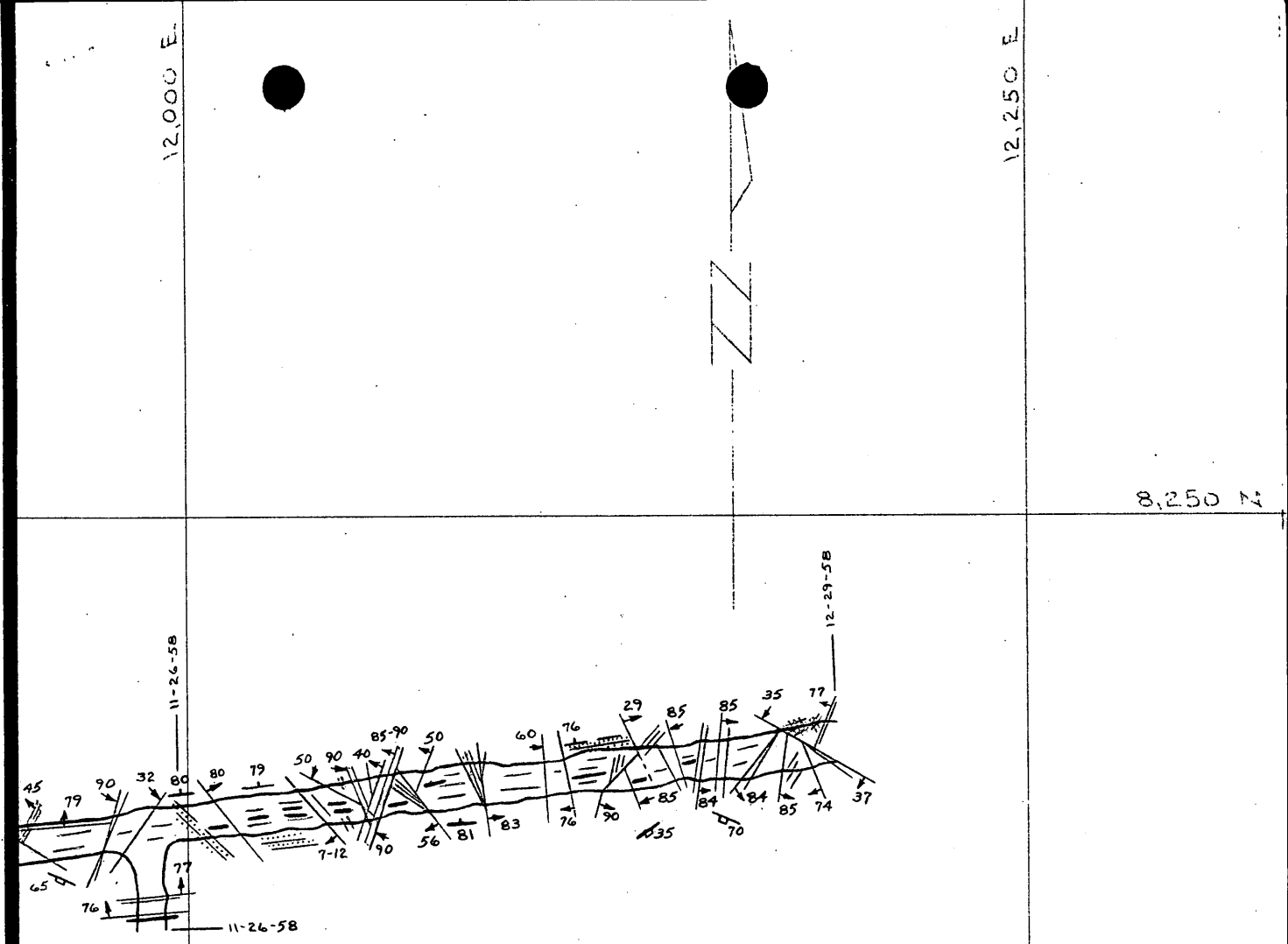
Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	15947	152587	168534
Bits	15465	251175	266640
Hose and Fittings	5017	22775	27792
Other		1859	1859
Total Drilling	36429	428396	464825
Rock Bolting:			
Bolts 4'			
Bolts 6'	13651	263957	277608
Total Rock Bolts	13651	263957	277608
Other Supplies:			
Cap Lamps	1001	12869	13870
Hand Tools		1607	1607
Miscellaneous		8013	8013
Total Other Supplies	1001	22489	23490
Power:			
Lighting	231	2270	2501
Auxiliary Ventilation	759	6715	7474
Compressed Air	11783	166695	178478
Total Power	12773	175680	188453
Total Category 3 - Other Supplies	63854	890522	954376
Category 7 - Other:			
Underground Haulage	130357	1335487	1465844
Interior Hoisting		121500	121500
Main Hoisting	127540	1209094	1336634
Surface Haulage	17358	149327	166685
Drainage	29948	239725	269673
Main Ventilation	5628	132317	137945
Life Insurance	6462	65056	71518
Health and Accident Insurance	26631	222374	249005
Vacation Allowances	32346	220010	252356
Holidays	33244	193250	226494
Pension Accruals	77753	761865	839618
Dry Room	6055	58679	64734
First Aid	173	19647	19820
Medical-Surgical	8030	72506	80536
Timekeeping and Warehouse	10775	111767	122542
Total Category 7 - Other	51837	491204	543038



TO ACCOMPANY Memo
Dated: Jan 20/59
By: J.N.Keston
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 1-16-59	Approved SNK	File No. N-150-P-167

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 1959

DATE	INITIALS	CODE

GSE Field Team, Region I

January 26, 1959

GSE Certifying Officer, Region I

American Smelting and Refining Company, Contract No. [illegible]
Monthly operating report for December 1958

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

The sum of $[illegible].64 has been deleted from Category 7, Miscellaneous (Other). According to the work papers submitted, the total costs of Drainage for the month was $[illegible].00, which was the amount charged on the MP-104. Only .[illegible]% or $[illegible].36 of this amount should have been charged to the GSE project and the balance, $[illegible].64 charged to the Operator's "Other Mine".

Dorothy F. Long

cc: GSE (2)
USGS (2)
Contract Admin. & Audit Div. (2)
EGE
AD

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 29 1959

DATE	INITIALS	CODE
1-29	C	220
1-29	[illegible]	800
[illegible]	[illegible]	[illegible]

1201 N. Division St.
Spokane 2, Washington

January 26, 1959

American Smelting and Refining Co.
Box 440
Wallace, Idaho

Re: Contract No. Ida-X1134
Docket No. [illegible]-4712
Monthly operating report for
December 1958

Gentlemen:

This is to inform you the subject voucher could not be paid in the full amount claimed.

The deletion is explained in the attached copy of a memorandum to the Field Team from the Certifying Officer, Region I.

By Field Team, Region I

A. H. Weissenborn, Exec. Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

cc: OME (2)
USGS (2)
AD

GMK Field Team, Region I

January 26, 1959

GMK Certifying Officer, Region I

American Smelting and Refining Company, Contract No. 1dm-2113h
Monthly operating report for December 1958

The subject monthly operating report has been processed and forwarded to the Disbursing Officer for payment.

The sum of $[illegible].64 has been deleted from Category 7, Miscellaneous (Other). According to the work papers submitted, the total costs of Drainage for the month was $241.00, which was the amount charged on the MF-104. Only .05135 or $16.36 of this amount should have been charged to the GMK project and the balance, $[illegible].64 charged to the Operator's "Other Mine".

Dorothy F. Long

cc: GMK (2)
USGS (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
1201 N. Division St.
Spokane 2, Washington

December 24, 1958

OFFICIAL FILE COPY O. M. E. RECEIVED JAN 26 1959		
DATE	INITIALS	CODE
1-26	C	220
		110
1/27		800
~~1/27~~		~~500~~

MEMORANDUM

To: OME Field Team, Region I

From: E. G. Erickson, Mining Engineer, U. S. Bureau of Mines

Subject: Interim inspection report, Docket No. DMEA-4712, American Smelting & Refining Co., East Page Mine, Shoshone County, Idaho, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The East Page project was inspected December 16, 1958, accompanied by Mr. Troy Tower, superintendent.

3070 Drift East

The 3070 drift east had been advanced 347.5 feet beyond survey station No. 1552 for a total advance under the contract of 2034.16 feet. There has been no significant change in the ground conditions or formation since the last interim report dated November 20, 1958. The drift is being supported by standard timber sets and timber is kept within a few feet of the face.

The drift is operated two shifts per day and five days per week. Three miners are employed in the heading and a full cycle, including a 5-foot round and a set of timber, is presently maintained each shift resulting in an advance averaging 10 feet per day. Two trackmen were raising track to final grade, ballasting, surfacing track and cleaning ditch. The section of drift through the Curlew vein that had to be spiled and timbered has required repairs from time to time. The standard of work is good.

Measurements (3070 DE)

Drift advance:

Starting point of contract - Sta. No. 1552	1686.66 ft.	1/
Sta. No. 1552 - face (12/16/58)	347.5 "	
Total drift advance to 12/16/58	2034.16 ft.	

1/ Corrected to recent survey.

Note: Rock section timbered drift 7'x9'. Untimbered drift rock section 8'x10' (minimum sections).

Measurements (3070 DE) (continued)

Timber advance:

Total timber previously reported to Sta. 1552+95'	1260.6 ft.	
Corrected total	1256.6 ft.	1/
Sta. No. 1552+95' - last set (12/16/58)	249.7 ft.	
Total timber to 12/16/58	1506.3 ft.	

1/ Previous error in footage between Sta. No. 1545 and Sta. 1552 and measurement ahead of Sta. 1552; net difference - minus 4 feet.

3070 - 800 XCS (drill station No. 2) 7'x9'

The center line 3070 - 800 XCS is located at survey Sta. 1552+219.5' which is also the location of a car transfer sideswipe. The total length of the XCS drill station is 23 feet. The car transfer is timbered and the drill station crosscut is rock bolted. Car transfer excavation was 315 cu. ft. for the interim period since the last inspection, making a total of 11,707 cu. ft.

Rock Bolting (completed since last inspection)

Total length	No. 5 ft. sections	7 bolts X no. sections	Bolts installed	Allowable bolts
3070 - 823 XCN				
188 ft.	37.6	263	389	263
3070 - 800 XCS				
23 ft.	4.6	32.2	70	32
Total bolts previously allowed				577
Total to date				872

Status of contract as of December 16, 1958:

Date of contract: Sept. 18, 1957 Amount of contract: $660,206.00
Termination date: Sept. 1, 1962 Amount spent: 93,974.40 (thru Oct.)

Work Items	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	2,034.16 ft.
Core drilling	11,855 ft.	none
Drill stations	300 ft.	48 ft.
Car siding excavations	14,800 ft.	11,707 cu.ft.
Timbering	3,950 ft.	1,506.3 ft.
Rock bolts	4,000	872

Distribution:
OME (4) USBM (AD)
USGS (2) Docket Erickson

E. G. Erickson

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

1201 N. Division St.
Spokane 2, Washington

November 20, 1958

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 26 1959

DATE	INITIALS	CODE
1-26	C	220
"	[illegible]	110
1-27	[illegible]	800
1-27	[illegible]	500

MEMORANDUM

To: OME Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was inspected November 13, 1958, accompanied by Mr. Troy Tower, superintendent.

The 3070 east drift had been driven 1,862.5 feet since the start of the drift. The face was in a quartzite believed to be the transition zone from the St. Regis to Revett formations. The strike of the bedding of the quartzite is about the same as the bearing of the drift, so unless the direction of the drift is changed the drift may continue in the transition zone for some distance.

The 3070-823 north crosscut was started at Sta. 1552 in a northeasterly direction to be used as a car transfer-storage and station for DDH No. 1.

In accordance with Amendment No. 1, an accounting has been made of the rock bolts in the main crosscut so that an adjustment may be made of the total allowable bolts.

The company's operations have returned to a 2-shift, 5-day basis.

The following work had been completed to date:

3070 Level East Crosscut

Distance previously reported to Sta. 1545 (includes correction of 0.17 feet for resurvey at Sta. 1543 to 1545)		1,430.36 ft.
Sta. 1545-1550	N. 83° 13' E	126.01 ft.
Sta. 1550-1551	" "	67.99 ft.
Sta. 1551-1552	" "	62.26 ft.
		1,686.62 ft.
Sta. 1552-face	" "	176.00
		1,862.62 ft.

3070-823 North Crosscut (Diamond Drill Sta. No. 1)

Sta. 1552-1553	N. 22° 07' E	25.79 ft.
Sta. 1553-1554	N. 7° 13' E	91.18 ft.
		116.97 ft.
Sta. 1554-face	" "	74.50
		191.47 ft.
Less 3.5 ft. for 1/2 width of main crosscut		3.50 "
		187.97 ft.

Timbering

Previously reported to Sta. 1545 in main crosscut	924.3 ft.
Sta. 1545 to Sta. 1552 + 30'	285.3 "
	1,209.6 ft.
Sta. 1552 + 44' to 1552 + 95'	51.0 "
	1,260.6 ft.
3070-823 north crosscut (diamond drill station No. 1) Sta. 1552-1552 + 30' less 3.5 ft. for 1/2 width of main crosscut	26.5 ft.
	1,287.1 ft.

Rock Bolting

Both crosscuts were being bolted; a count will be made when bolting is finished.

Diamond Drill Stations

D.D. Station No. 1 (3070-823 N. X-Cut)	25.0 ft.

Note: Since this crosscut is to be used for a diamond drill station and car transfer, 25 feet is being charged to the station and the balance to side-swiping for car transfers.

Car Siding Excavations

Previous report	1,123 cu. ft.
Net length of 3070-823 North Crosscut 188 feet less 25 feet	10,269 " "
	11,392 " "

Status of the contract and work completed as of November 13, 1958:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 87,044.15 (thru September 1958)

	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	1,862.6 ft.
Diamond drilling	11,855 ft.	0
Diamond drill stations	300 ft.	25 ft.
Car siding excavations	14,800 cu. ft.	11,392 cu. ft.
Timbering	3,950 ft.	1,287.1 ft.
Rock bolts	4,000	521 (adjusted)

John D. Bardill

John D. Bardill

Distribution:
OME (4)
USGS (2)
USBM (AD)
Docket
Bardill

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 62-R1036.5

JAN 15 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. & Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				1/20/59 WPK		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	5,436.16	39,681.16	45,117.32	5436.16	39681.16	45117.32
Supervision	358.75	2,455.12	2,813.87	358.75	2455.12	2813.87
Technical Services	102.00	1,640.00	1,742.00	102.00	1640.00	1742.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,088.10	10,031.42	11,119.52	1088.10	10031.42	11119.52
Explosives	998.08	11,570.33	12,568.41	998.08	11570.33	12568.41
Pipe	989.39	13,187.12	14,176.51	989.39	13187.12	14176.51
Track	435.58	5,650.25	6,085.83	435.58	5650.25	6085.83
Other	1,487.76	7,417.46	8,905.22	1487.76	7417.46	8905.22
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	2,319.18	2,497.58	178.40	2319.18	2497.58
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	160.17	1,308.92	1,469.09	160.17	1308.92	1469.09
Sampling and Analysis						
Payroll Taxes	152.53	1,750.75	1,903.28	152.53	1750.75	1903.28
Liability Insurance	127.60	1,208.90	1,336.50	127.60	1208.90	1336.50
Other	4,395.19	44,730.85	49,126.04	4395.19	44730.85	49126.04
(8) Contingencies (specify): Less Windfaces & Maximum				7226.91	49977.06	56203.97
TOTALS	15,909.71	142,951.46	158,861.17	86822.80	93974.40	102657.20

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Dec. 18, 1958 *Payee American Smelting and Refining Company

Per J. C. Kinsor Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4341.40

Signature Dorsey F. Lang
(Authorized Certifying Officer)

Date 1/5/59 Vou. No. 2269

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 2-1134 in accordance with the terms of the contract.

Signature /s/ Eric L. Erickson Title Mining Engr. Date 12/29/58

APPROVAL BY ~~DMEA~~ OME EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Jan. 7, 1959

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MT-104A
(April 1962)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

JAN 15 1959

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 195 8 Docket No. DMEA 4712 Contract No. IIM-E 1134

Operator's Name American Smelting and Refining Company Minerals Lead and Zinc

Address 120 Broadway, New York 5, N. Y. % Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting—Crosscutting	Foot	9,492.15	136.0	114,401.33	1,926.8	59.37	12,485	40.00
Crosscutting—DD Stations	"	1,153.94	23.2	2,406.87	48.2	49.94	300	35.00
Raising—Timbering	"	3,952.31	136.0	26,375.77	1,404.7	18.78	3,950	10.50
Shafts—Rock Bolting	Each	1,091.88*		6,065.12	577	10.51	4,000	3.50
Winzes—Car Sidings	Cu.Ft.	219.43	315	9,612.08	12,422	.77	14,800	.45
Drilling: Core—AX	Foot							6.60
Churn—Ex	"						11,855	6.40
Auger—Incid.	"							.40
Stripping—Core Boxes	Each						290	3.40
Trenching—Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		15,909.71		158,861.17				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		15,909.71		158,861.17				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Dec. 18, 1958 Operator American Smelting And Refining Company

Per D. L. Kieser Title Manager

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

REMARKS: *324 Rock Bolts used on D.D. station and 623 X-Cut designated as a car siding.

188 + 23 = 211 ÷ 5 = 42.2 x 7 = 295.4

allow 295 bolts
+ 577
Total bolts to date 872

(For Government use only)

/s/ Eric G. Erickson, 12/29/58

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
December 19, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE PROJECT
PROGRESS REPORT - NOVEMBER 1958

In the 3070 East Page Drive, advance for November was 136.0 feet for a total of 1,926.8 feet to date. The drive exposes light-purple to grey, medium-grained argillaceous quartzite, which is well sericitized and strongly bleached. A few, very thin, discontinuous, quartz-siderite stringers occur along bedding-plane partings. The bedding and a few, weak, bedding-plane faults strike N. 85° E., and dip steeply to the north. Cross faulting is relatively weak.

800 DDH Crosscut South, being driven as a diamond drill station, advanced to a total of 23.2 feet. Geologic features are similar to those in the main drive.

A 50-scale map showing the geology of the advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

DIETZGEN NO. 352-107

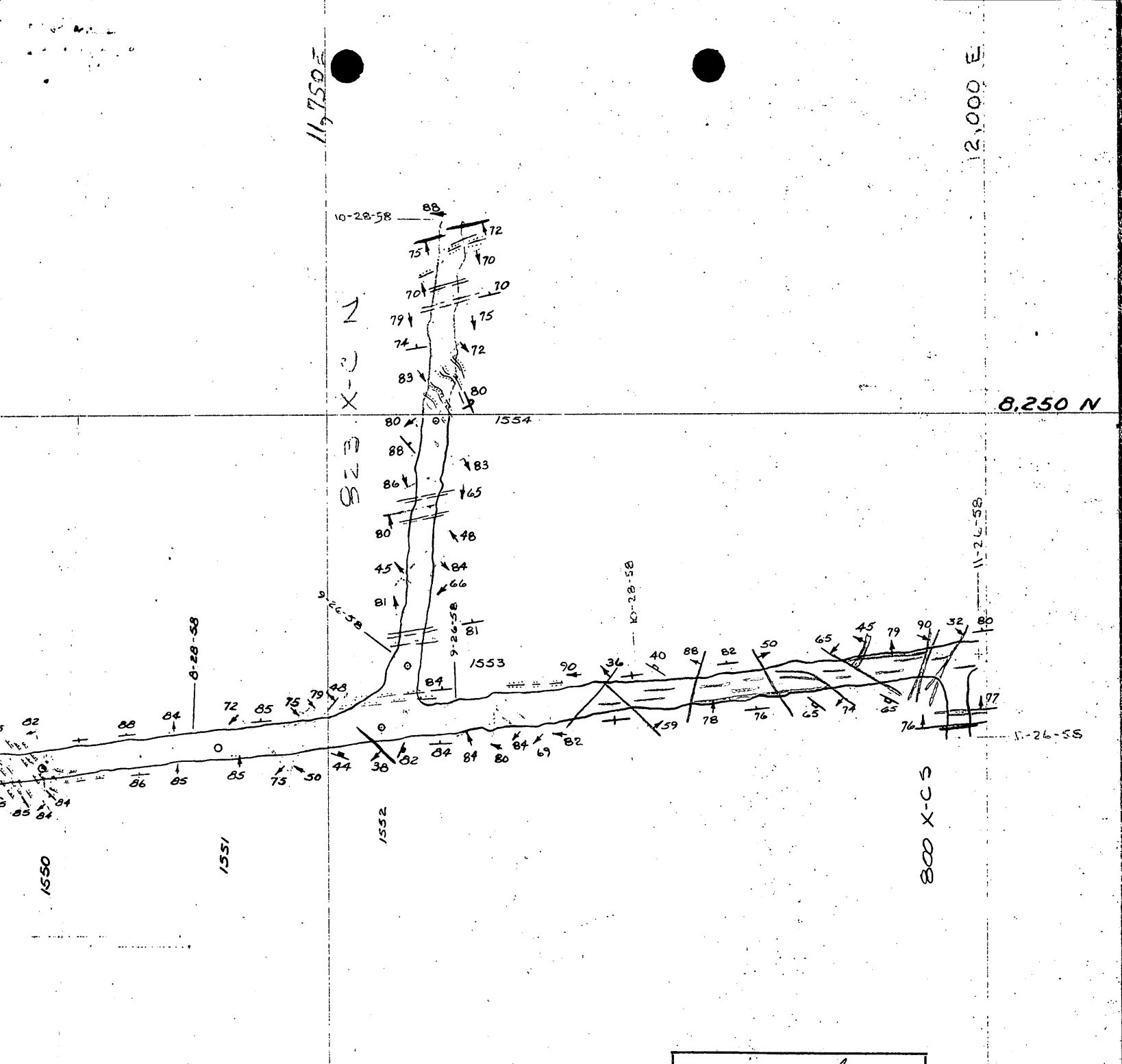
Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	16638	135949	152587
Bits	36834	214341	251175
Hose and Fittings	15587	7188	22775
Other		1859	1859
Total Drilling	69059	359337	428396
Rock Bolting:			
Bolts 4'			
Bolts 6'	60588	203369	263957
Total Rock Bolts	60588	203369	263957
Other Supplies:			
Cap Lamps	1001	11868	12869
Hand Tools		1607	1607
Miscellaneous		8013	8013
Total Other Supplies	1001	21488	22489
Power:			
Lighting	205	2065	2270
Auxiliary Ventilation	874	5841	6715
Compressed Air	17049	149646	166695
Total Power	18128	157552	175680
Total Category 3 - Other Supplies	148776	741746	890522
Category 7 - Other:			
Underground Haulage	112381	1223106	1335487
Interior Hoisting		121500	121500
Main Hoisting	96050	1113044	1209094
Surface Haulage	11245	138082	149327
Drainage	15704	224021	239725
Main Ventilation	13002	119315	132317
Life Insurance	6608	58448	65056
Health and Accident Insurance	26926	195448	222374
Vacation Allowances	19176	200834	220010
Holidays	34612	158638	193250
Pension Accruals	81801	680064	761865
Dry Room	5258	53421	58679
First Aid	1950	17697	19647
Medical-Surgical	1806	70700	72506
Timekeeping and Warehouse	13000	98767	111767
Total Category 7 - Other	439519	4473085	4912604



TO ACCOMPANY Memo
Dated: Dec 19 1958
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 12-16-58	Approved SNK	File No. N-150-P-167

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 15 1959

DATE	INITIALS	CODE

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED DEC 22 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. % Box 449, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				1/19/59	WPK	
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	4,271.57	35,409.59	39,681.16	4271.57	35409.59	39,681.16
Supervision	194.97	2,260.15	2,455.12	194.97	2260.15	2455.12
Technical Services	112.00	1,528.00	1,640.00	112.00	1528.00	1640.00
(3) Operating Mat'ls. and Supplies:						
Timber	480.65	9,550.77	10,031.42	480.65	9550.77	10031.42
Explosives	1,380.40	10,189.93	11,570.33	1380.40	10189.93	11570.33
Pipe	1,247.49	11,939.63	13,187.12	1247.49	11939.63	13187.12
Track	625.31	5,024.94	5,650.25	625.31	5024.94	5650.25
Other	602.37	6,815.09	7,417.46	602.37	6815.09	7417.46
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	2,140.78	2,319.18	178.40	2140.78	2319.18
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	17.00	1,291.92	1,308.92	17.00	1291.92	1308.92
Sampling and Analysis						
Payroll Taxes	140.20	1,610.55	1,750.75	140.20	1610.55	1750.75
Liability Insurance	105.43	1,103.47	1,208.90	105.43	1103.47	1208.90
Other	3,841.57	40,889.28	44,730.85	3841.57	40889.28	44730.85
(8) Contingencies (specify): Less 1st Year 5% Maximum				6219.11	42709.98	48929.06
TOTALS	13,197.36	129,754.10	142,951.46	6930.25	87044.15	93974.40

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Nov. 20, 1958 *Payee American Smelting & Refining Company

Per J. C. Kiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3465.13

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 12/17/58 Vou. No. 2261

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ Eric L. Erickson Title Mining Engr. Date 12/15/58

APPROVAL BY ~~DMEA~~ OME EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing L. Agnew Title Acting Exec. Date 12/16/58

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1962)

REVISED

Budget Bureau No. 42-R1151.2

RECEIVED DEC 22 1958 O.M.S.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name American Smelting and Refining Company Minerals Lead and Zinc

Address 120 Broadway, New York 5, N.Y. & Box 440, Wallace, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting ~~Crosscutting~~	Foot	2,258.29	28.4	104,909.18	1790.8	58.58	12,485	40.00
~~Crosscutting~~ D.D. Stations	"	1,252.93	25	1,252.93	25	50.12	300	35.00
~~Raising~~ Timbering	"	1,190.82	28.4	22,423.46	1268.7	17.67	3,950	10.50
~~Shafts~~ Rock Bolting	Each	329.58	59	4,973.24	577	8.62	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.	8,165.74	10,269	9,392.65	12,107	.78	14,800	.45
Drilling: ~~Core~~ AX	Foot							6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"							.40
~~Stripping~~ Core Boxes	Each						290	3.40
~~Trenching~~ Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
Total Distributed Costs		13,197.36		142,951.46				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		13,197.36		142,951.46				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Dec. 3, 1958 Operator American Smelting and Refining Company

Per J. L. Kinsor Title Manager

Remarks:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ Eric L. Erickson, 12/15/58

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

December 15, 1958

Due to the fact the MF-104A and the Operator's Progress Report do not agree, the following explanation is given. (Mr. S. W. Zoldok did not feel this should be returned to the Operator for correction).

In accordance with Field Team letters written November 24 and November 26, 1958 to the Operator, a revised MF-104A for the month of October was submitted. However, the progress report submitted was not revised and, therefore, the footages for advance of the 3070 East Page Drive and 823 Crosscut North do not agree with the revised MF-104A or the accountant's revised report.

The total footage advance of 1,790.8 is in accord with the revised MF-104A for October; however, the advance for October is shown as 28.4 ft. instead of 65.2 ft. The 823 Crosscut North was started in September and at the end of the month had been advanced 36.8 ft. Reimbursement was made for the 36.8 ft. for September. This crosscut was completed in October for a total length of 188 ft., but in order to conform to the terms of the contract, this footage was converted to 25 ft. for diamond drill station and 163 ft. of car transfer which, in turn, was converted to 10,269 cu. ft. In other words, the 28.4 ft. represents the net footage for October after taking credit for the 36.8 ft. paid for in September. The total net of 1,790.8 ft. remains unchanged.

J. C. KIEFFER
MANAGER

COPY

American Smelting and Refining Company
Northwestern Mining Department
Wallace, Idaho

December 9, 1958

Office of Minerals Exploration
United States Bureau of Mines
N. 1201 Division Street
Spokane, Washington

Re: Docket No. DMEA-4712 (lead-zinc)
East Page Mine
Shoshone County, Idaho
Contract No. Idm-E1134

Dear Sirs:

We have your letters of November 24 and November 26.

Enclosed herewith find our accountants' report, with revisions made as you suggest.

Yours very truly,

ORIGINAL SIGNED
J. C. KIEFFER

JCK:ajm
Enclosures

cc: OME (4) - with enclosures.
DJPope - "
TMTower - "
SNKesten - w/o.
WJMurphy - w/o.

Wallace, Idaho
November 21, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE PROJECT
PROGRESS REPORT - OCTOBER 1958

In the 3070 East Page Drive, advance for October was 65.2 feet for a total of 1,790.8 feet to date. The drive exposes dark-grey to purple argillite and grey to buff bleached argillaceous quartzite. The bedding and numerous weak bedding-plane faults parallel the drive and dip steeply to the north. Principally because of the character of the rock exposed in the 823 Crosscut North, the rock penetrated by the drive from the Curlew vein east to the present face is now tentatively identified as the transition zone between the Revett formation to the south and the St. Regis formation to the north.

In 823 Crosscut North, which was driven as a diamond drill station and for car storage, advance for October was 156.7 feet for a total length of 193.5 feet. The heading encountered thin-bedded dark-grey to purple argillite, which is locally highly bleached, and lesser amounts of light-grey argillaceous quartzite. The rock has been tentatively identified as the St. Regis formation. The bedding and a few weak bedding-plane faults strike approximately N. 85° E. and dip steeply to the north, with the exception of a 35- to 40-foot section where faulting has folded and overturned the beds.

A 50-scale map showing the geology of the advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

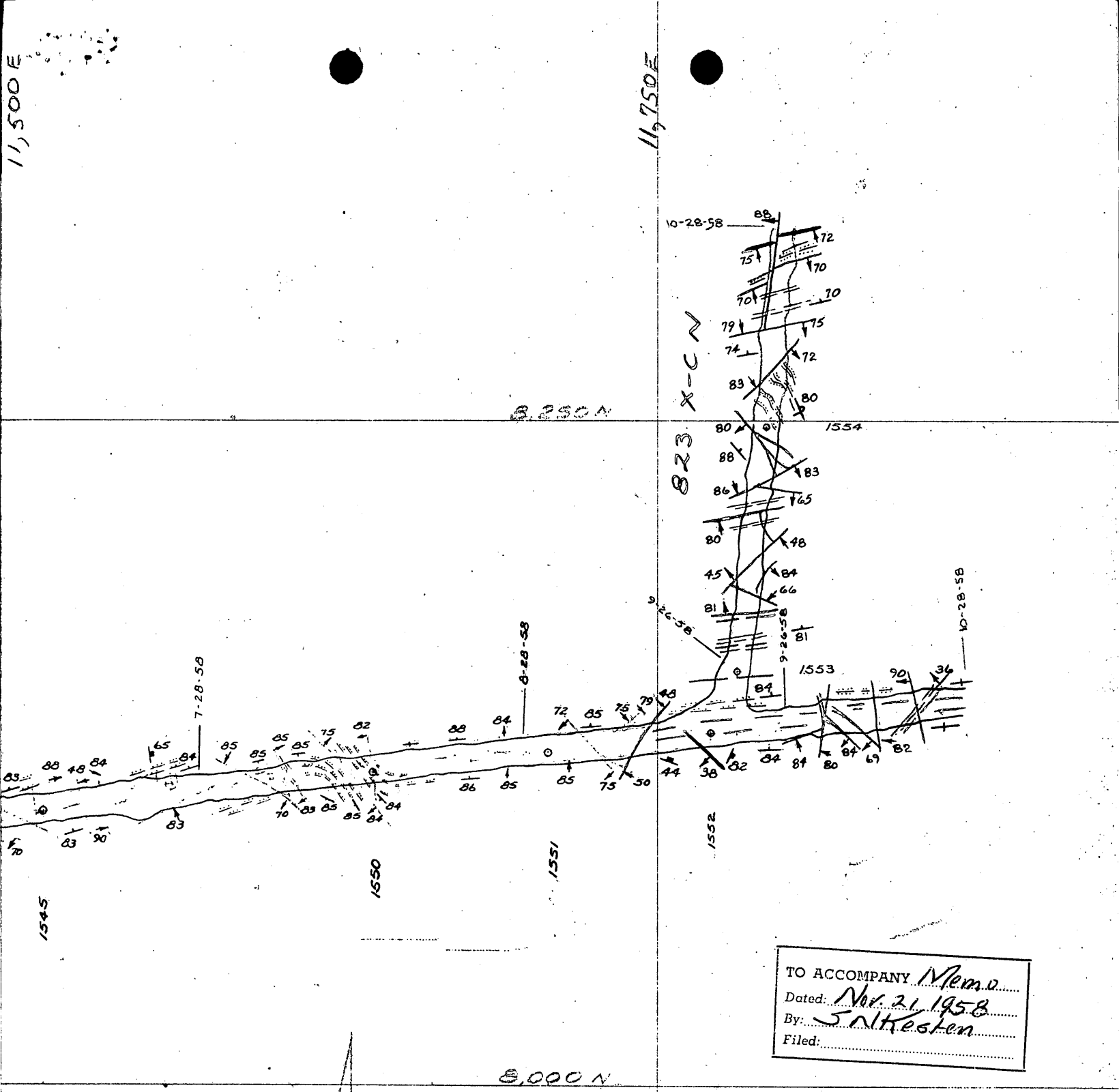
Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 58 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	202 88	1 156 61	1 359 49
Bits		2 143 41	2 143 41
Hose and Fittings		71 88	71 88
Other		18 59	18 59
Total Drilling	202 88	3 390 49	3 593 37
Rock Bolting:			
Bolts 4'			
Bolts 6'	152 21	1 881 48	2 033 69
Total Rock Bolts	152 21	1 881 48	2 033 69
Other Supplies:			
Cap Lamps	10 01	108 67	118 68
Hand Tools		16 07	16 07
Miscellaneous		80 13	80 13
Total Other Supplies	10 01	204 87	214 88
Power:			
Lighting	1 70	18 95	20 65
Auxiliary Ventilation	4 36	54 05	58 41
Compressed Air	231 21	1 265 25	1 496 46
Total Power	237 27	1 338 25	1 575 52
Total Category 3 - Other Supplies	602 37	6 815 09	7 417 46
Category 7 - Other:			
Underground Haulage	1 080 09	11 150 97	12 231 06
Interior Hoisting		12 150 00	12 150 00
Main Hoisting	1 001 57	10 128 87	11 130 44
Surface Haulage	142 72	1 238 10	1 380 82
Drainage	104 76	2 135 45	2 240 21
Main Ventilation	85 42	1 107 73	1 193 15
Life Insurance	57 55	526 93	584 48
Health and Accident Insurance	24 57	170 871	195 448
Vacation Allowances	177 35	1 830 99	2 008 34
Holidays	4 07	1 582 31	1 586 38
Pension Accruals	717 05	6 083 59	6 800 64
Dry Room	44 51	489 70	534 21
First Aid	18 64	158 33	176 97
Medical-Surgical	62 18	644 82	707 00
Timekeeping and Warehouse	99 89	887 78	987 67
Total Category 7 - Other	3 841 57	40 889 28	44 730 85



TO ACCOMPANY Memo
Dated: Nov. 21, 1958
By: S N Kesten
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 11-11-58	Approved SNK	File No. N-150-P-167

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED NOV 10 1958 D.M.E.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1958 Docket No. DMEA 4712 Contract No. ITM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. & Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				1/19/59		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	2,883.75	32,525.84	35,409.59	2883.75	32525.84	35409.59
Supervision	177.64	2,082.51	2,260.15	177.64	2082.51	2260.15
Technical Services	149.00	1,379.00	1,528.00	149.00	1379.00	1528.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,006.94	8,543.83	9,550.77	1006.94	8543.83	9550.77
Explosives	901.94	9,287.99	10,189.93	901.94	9287.99	10189.93
Pipe	500.49	11,439.14	11,939.63	500.49	11439.14	11939.63
Track	454.41	4,570.53	5,024.94	454.41	4570.53	5024.94
Other	476.47	6,338.62	6,815.09	476.47	6338.62	6815.09
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	1,962.38	2,140.78	178.40	1962.38	2140.78
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	110.17	1,181.75	1,291.92	110.17	1181.75	1291.92
Sampling and Analysis						
Payroll Taxes	116.43	1,494.12	1,610.55	116.43	1494.12	1610.55
Liability Insurance	79.00	1,024.47	1,103.47	79.00	1024.47	1103.47
Other	3,336.80	37,552.48	40,889.28	3336.80	37552.48	40889.28
(8) Contingencies (specify): See in reserve or Maximum				3864.87	38845.26	42709.95
TOTALS	10,371.41	119,382.66	129,754.10	6506.75	80537.40	87044.15

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Oct. 16, 1958 *Payee American Smelting and Refining Co.

Per J. L. Hieber Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 325337

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 11/4/58 Vou. No. 2246

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1124 in accordance with the terms of the contract.

Signature /s/ John A. Bardill Title Metallurgist Date October 23, 1958

APPROVAL BY ~~DMEA~~ DME EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Oct. 28, 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED NOV 10 1958 O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept. 195 8 Docket No. DMEA 1712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y., % Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting ~~Crosscutting~~	Foot	8,528.88	131.3	102,650.89	1762.4		12,485	40.00
~~Crosscutting~~ D.D.Stations	"						300	35.00
~~Raising~~ Timbering	"	1,842.56	119.5	21,232.64	1240.3		3,950	10.50
~~Shafts~~ Rock Bolting	Each			4,643.66	636		4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft			1,226.91	1838		14,800	.45
Drilling: ~~Core~~ AX	Foot							6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"							.40
~~Stripping~~ Core Boxes	Each						290	3.40
~~Trenching~~ Assaying	Dot.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		10,371.44		129,754.10				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		10,371.44		129,754.10				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Oct. 16, 1958 Operator American Smelting & Ref. Co.

Per J. L. Kisser Title Manager

REMARKS:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John D. Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
October 9, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - SEPTEMBER 1958

During September, the East Page Drive advanced 94.5 feet, and 3070 - 823 Crosscut North advanced 36.8 feet, bringing the total advance to date to 1,762.6 feet. The rocks exposed are light to medium-grey quartzite containing a few darker grey, slightly purple bands. Locally, the quartzite is argillaceous and buff colored. The bedding and numerous weak bedding-plane faults parallel the drive and dip steeply north. The rock is much more competent than previously.

The new heading 3070 - 823 Crosscut North has been turned off to be used as car storage. It will also be used as a diamond drill station for DDH No. 1 (North). A station for DDH No. 2 (South) will be provided further east, offset from the crosscut to such an extent that not too much ground will be open in one locality. Permission for these modifications to the original plan has been given by DMEA.

A 50-scale map showing the geology of the advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

DIETZGEN NO 352-107

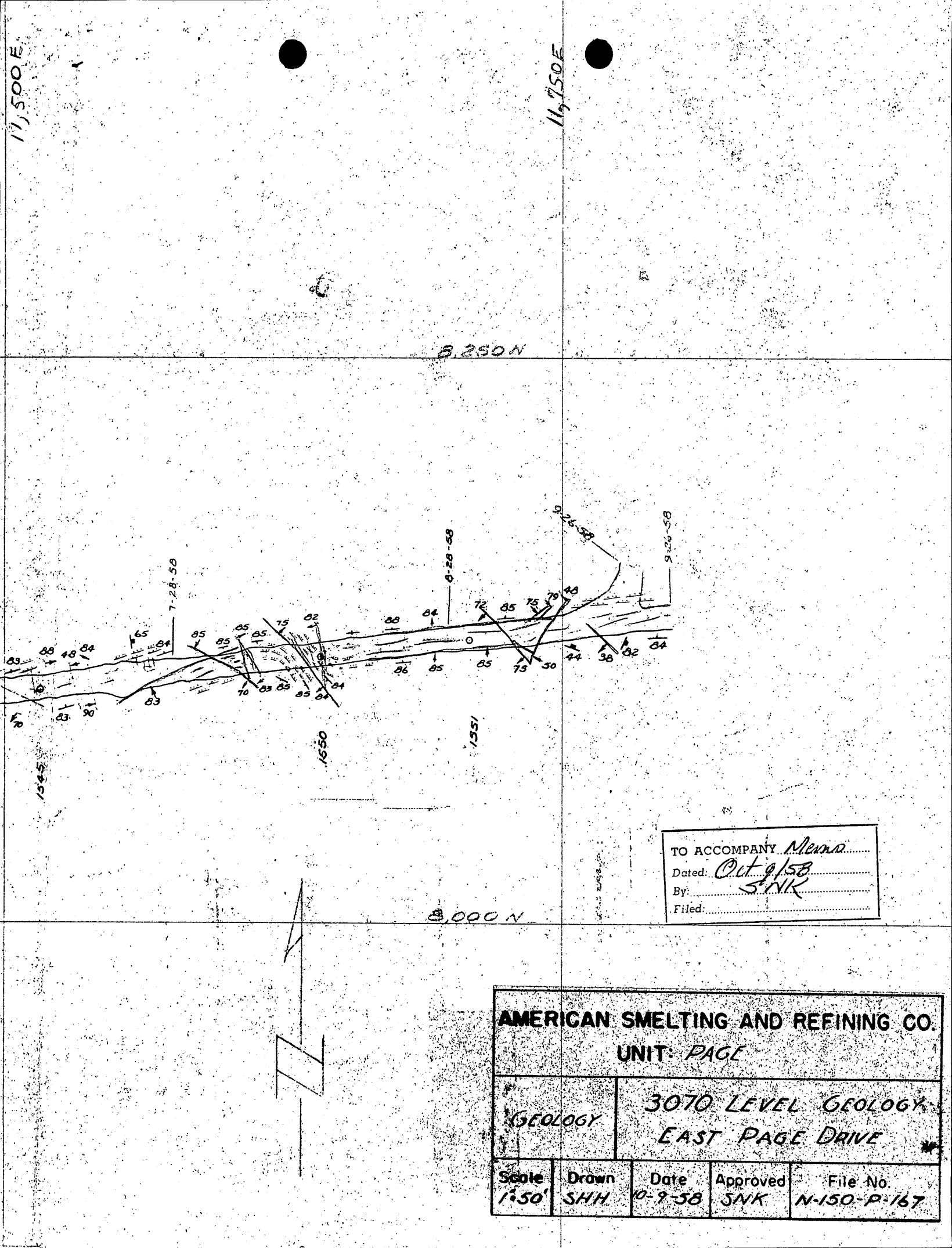
Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1952 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	11271	104390	115661
Bits	20191	194150	214341
Hose and Fittings		7188	7188
Other		1859	1859
Total Drilling	31462	307587	339049
Rock Bolting:			
Bolts 4'			
Bolts 6'		188148	188148
Total Rock Bolts		188148	188148
Other Supplies:			
Cap Lamps	1001	9866	10867
Hand Tools		1607	1607
Miscellaneous		8013	8013
Total Other Supplies	1001	19486	20487
Power:			
Lighting	194	1701	1895
Auxiliary Ventilation	514	4891	5405
Compressed Air	14476	112049	126525
Total Power	15184	118641	133825
Total Category 3 - Other Supplies	47647	633862	681509
Category 7 - Other:			
Underground Haulage	86163	1028934	1115097
Interior Hoisting	—	121500	121500
Main Hoisting	81168	931719	1012887
Surface Haulage	9288	114522	123810
Drainage	152333	1983212	2135545
Main Ventilation	6962	103811	110773
Life Insurance	4833	47860	52693
Health and Accident Insurance	15484	155387	170871
Vacation Allowances	15916	167183	183099
Holidays	24667	133564	158231
Pension Accruals	59355	549004	608359
Dry Room	2962	46008	48970
First Aid	175	15658	15833
Medical-Surgical	3166	61316	64482
Timekeeping and Warehouse	2308	80470	28778
Total Category 7 - Other	333680	3755248	4088928



TO ACCOMPANY Memo
Dated: Oct 9/58
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO.

UNIT: PAGE

GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 10-9-58	Approved SNK	File No. N-150-P-167

EXTRA COPY
O. M. E.
RECEIVED NOV 12 1958

DATE	INITIALS	CODE

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 7 1958

DATE	INITIALS	CODE
10/7	C	220
7	Com	100
"	JG	110
10/8	CEO	800
10/8	Rly	300

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
So. 157 Howard Street
Spokane 4, Washington
September 29, 1958

MEMORANDUM

To: OME Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-4712 (Lead-Zinc), American Smelting and Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The above project was inspected jointly with John D. Bardill, Engineer, Bureau of Mines, on September 24, 1958. Troy Tower, Supt. of Page Mine Division, was contacted at the mine office but was busy with a team from the U. S. Bureau of Mines making a dust count of the mine and mill. One of the mine foremen, Mr. James, accompanied the inspectors to the DMEA workings on the 3070 level.

Crosscutting continues on the 3070 level in a N. 83° E. direction through the light-colored, thin-bedded, siliceous rocks of the Burke formation. The total distance of the DMEA crosscut is now about 1708 feet. The last 800 feet is heavily timbered as the ground is highly fractured and the sides slab badly. Rock bolts are insufficient. The crosscut is still running almost parallel with the lines of schistosity and this condition is partially responsible for the slabbing along the sides. The back holds well until slabbing occurs along the sides.

About 20 feet back from the face a crosscut to the north has been started. This crosscut will be driven for a possible 200 feet and be used for a train switch and for a drill station at the face. This will be the first drill hole on the DMEA contract. Crosscutting to the north should require less timbering as the advance will be at right angles to the lines of schistosity or foliation of the rocks.

Both the underground work and 500-ton mill are on a 4-day per week working basis.

Distribution:
~~DMEA~~ OME (Orig.&3)
USBM(2)
USBM(AD)
Docket
Sample

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

OFFICIAL FILE COPY
O. M. E.
RECEIVED OCT 7 1958

DATE	INITIALS	CODE

September 25, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was inspected September 24, 1958, accompanied by R. D. Sample, geologist, U. S. Geological Survey, and Mr. James, foreman.

The 3070 east drift had been driven about 1,710 feet since the start of the contract. The crosscut is still in heavy ground requiring timbering.

At survey station 1545 + 246 feet (about 1,676 feet from the start) a crosscut is being driven to the north from the main crosscut and will be used as a car storage and transfer and diamond drill station. The crosscut had been driven 19 feet.

The following work had been completed to date:

3070 Level East Crosscut

Distance previously reported to Sta. 1528			1,229.29 ft.
Sta.	1528 - 1543	N 83° 13' E	100.30
	1543 - 1545	" "	100.60
			1,430.19
	1545 - face	" "	280.00
			1,710.19

No. 1 crosscut north 19 ft.

Timbering

Previously reported to Sta. 1528	723.3 ft.
Sta. 1528 - 1543	100.3
1543 - 1545	100.6
1545 - face	280.0
No. 1 Xcut north	19.0
	1,223.2 ft.

Sideswiping for car transfers

Previously reported	1,123 cu. ft.

Status of the contract and work completed as of September 24:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 75,053.10 (thru August 1958)

	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	1,729.19 ft.
Diamond drilling	11,855 ft.	0
Diamond drill stations	300 ft.	0
Car siding excavations	14,800 cu.ft.	1,123 cu. ft.
Timbering	3,950 ft.	1,223.2 ft.
Rock bolts	4,000	618

John D. Bardill

John D. Bardill

Distribution:
OME (4)
USGS (2)
USBM (AD)
Docket
Bardill

Form MR-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED OCT 3 1958 DMEA

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead & Zinc
Address 120 Broadway, New York 5, N.Y. % Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				10/16/58		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	2,794.40	29,731.44	32,525.84	2794.40	29731.44	32,525.84
Supervision	209.85	1,872.66	2,082.51	209.85	1872.66	2082.51
Technical Services	104.00	1,275.00	1,379.00	104.00	1275.00	1379.00
(3) Operating Mat'ls. and Supplies:						
Timber	904.49	7,639.34	8,543.83	904.49	7639.34	8543.83
Explosives	611.71	8,676.28	9,287.99	611.71	8676.28	9287.99
Pipe	672.79	10,766.35	11,439.14	672.79	10766.35	11439.14
Track	638.63	3,931.90	4,570.53	638.63	3931.90	4570.53
Other	374.95	5,963.67	6,338.62	374.95	5963.67	6338.62
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	1,783.98	1,962.38	178.40	1783.98	1962.38
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	5.28	1,176.47	1,181.75	5.28	1176.47	1181.75
Sampling and Analysis						
Payroll Taxes	122.61	1,371.51	1,494.12	122.61	1371.51	1494.12
Liability Insurance	74.50	949.97	1,024.47	74.50	949.97	1024.47
Other	2,656.18	34,896.30	37,552.48	2656.18	34896.30	37552.48
(8) Contingencies (specify): Insurance Special Maintenance				386.49	3498.79	3884.26
TOTALS	9,347.79	110,034.87	119,382.66	5484.30	75053.10	80537.40

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Sept. 16, 1958 Payee American Smelting and Refining Co.

Per J. L. Kinsey Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 2742.15

Signature Dorothy H. Lou (Authorized Certifying Officer)

Date 10/1/58 Vou. No. 2225

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ John A. Bardill Title Metallurgist Date Sept. 25, 1958

APPROVAL BY ~~DMEA~~ DME EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Sept. 30, 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED SEP 6 1958 O.M.

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead & Zinc
Address 120 Broadway, New York 5, N.Y., % Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting - Crosscutting	Foot	7,368.59	108.6	94,122.01	1,631.1	57.70	12,485	40.00
~~Crosscutting~~ D.D. Station	"				1165.7	16.62	300	35.00
~~Raising~~ Timbering	"	1,979.20	108.6	19,390.08	1,120.8	17.30	3,950	10.50
~~Shafts~~ Rock Bolting	Each			4,643.66	636	7.30	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.			1,226.91	1,838	.67	14,800	.45
Drilling: ~~Core~~ AX	Foot							6.60
Churn EX	"						11,855	6.40
~~Auger~~ Incid.	"							.40
~~Stripping~~ Core Boxes	Each						290	3.40
~~Trenching~~ Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		9,347.79		119,382.66				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		9,347.79		119,382.66				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

REMARKS:

Date Sept. 16, 1958 Operator American Smelting & Refining Co.

Per J. C. Kieser Title Manager

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John D. Lordell

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
September 18, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - AUGUST 1958

During August, the East Page Drive advanced 108.6 feet for a total of 1,631.1 feet to date. The present face is approximately 300 feet west of the first of the proposed exploratory diamond drill holes. The drive intersected a relatively strong, northwest-striking, nearly vertical fault approximately 68 feet west of the last face mapped. The folding resulting from the fault indicates that the ground east of the fault has moved south. To the west of the fault, the rock is interbedded grey to purple argillite and quartzite and to the east, light green-grey to buff, slightly argillaceous quartzite. The previously encountered faintly purple beds occur in the present face only along the stronger bedding plane slips, indicating that at least part of the purple color is a result of alteration.

A 50-scale map showing geology of this advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

DIETZGEN - NO 352-107

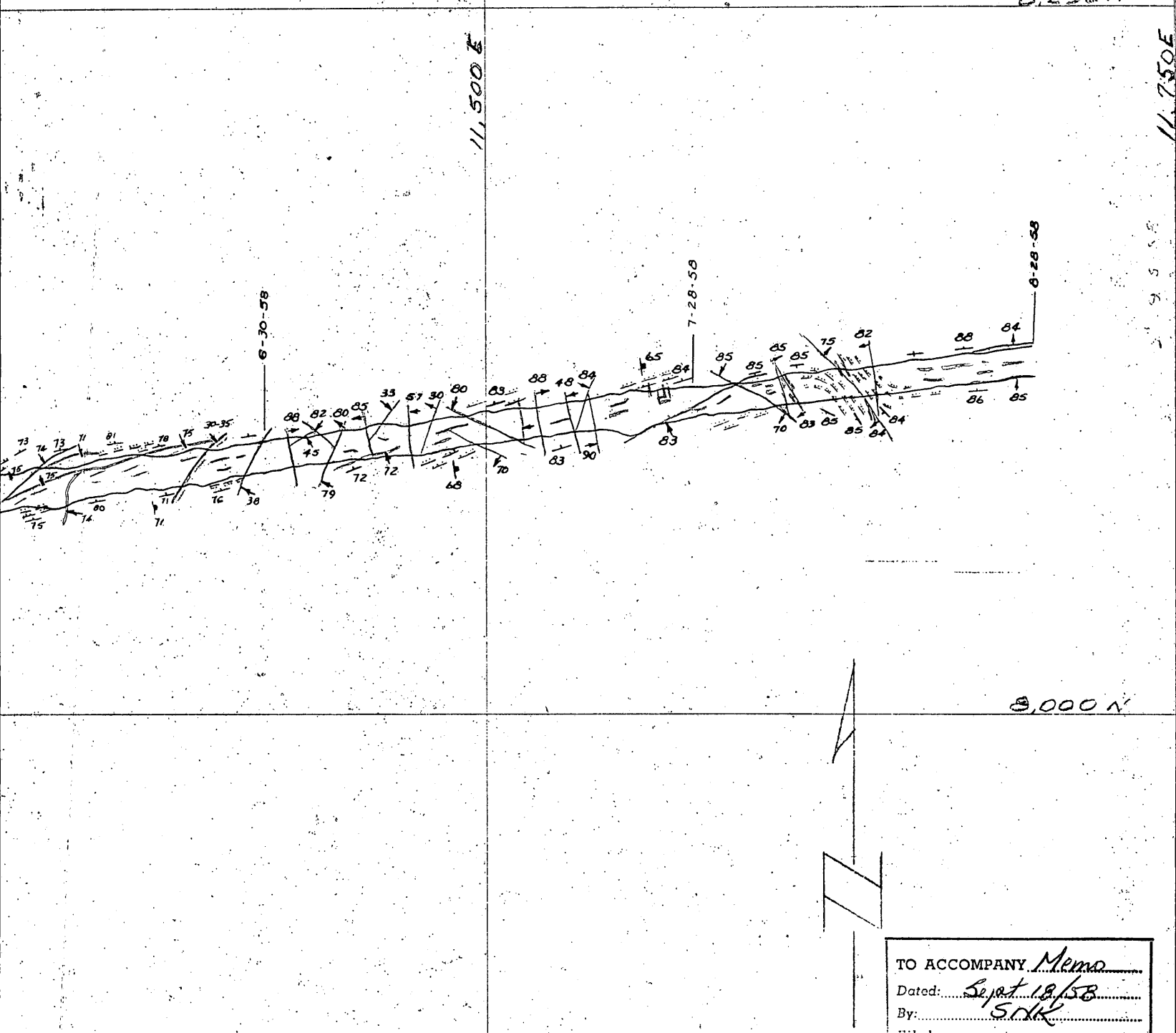
Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 19[illegible] Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	8306	96084	104390
Bits	14600	179550	194150
Hose and Fittings		7188	7188
Other		1859	1859
Total Drilling	22906	284681	307587
Rock Bolting:			
Bolts 4'			
Bolts 6'		188148	188148
Total Rock Bolts		188148	188148
Other Supplies:			
Cap Lamps	1001	8865	9866
Hand Tools		1607	1607
Miscellaneous		8013	8013
Total Other Supplies	1001	18485	19486
Power:			
Lighting	194	1507	1701
Auxiliary Ventilation	540	4351	4891
Compressed Air	12854	99195	112049
Total Power	13588	105053	118641
Total Category 3 - Other Supplies	37495	596367	633862
Category 7 - Other:			
Undergrpund Haulage	73112	955822	1028934
Interior Hoisting	-	121500	121500
Main Hoisting	58620	873099	931719
Surface Haulage	9601	104921	114522
Drainage	7955	190357	198312
Main Ventilation	11205	92606	103811
Life Insurance	4561	43299	47860
Health and Accident Insurance	14466	140921	155387
Vacation Allowances	14335	152848	167183
Holidays	-	133564	133564
Pension Accruals	55598	493406	549004
Dry Room	2204	43804	46008
First Aid	250	15408	15658
Medical-Surgical	5973	55343	61316
Timekeeping and Warehouse	7738	72732	80470
Total Category 7 - Other	265618	3489630	3755248



TO ACCOMPANY Memo
Dated: Sept 18/58
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 9-2-58	Approved SNK	File No. N-150-P-167

EXTRA COPY
O. M. E.
RECEIVED OCT 6 1958

DATE	INITIALS	CODE

Form M1-104 (Rev.)
(April 1952)

RECEIVED SEP 8 1958 D.M.E.A.

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1958 Docket No. DMEA 1712 Contract No. DMA-E 1134

Operator's Name American Smelting and Refining Company Minerals Lead and zinc

Address 120 Broadway, New York 5, N.Y. & Box 140, Wallace, Idaho

Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				9/11/58		
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,558.39	26,173.05	29,731.44	3558.39	26173.05	29731.44
Supervision	249.36	1,623.30	1,872.66	249.36	1623.30	1872.66
Technical Services	103.00	1,172.00	1,275.00	103.00	1172.00	1275.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,481.57	6,157.77	7,639.34	1481.57	6157.77	7639.34
Explosives	881.09	7,795.19	8,676.28	881.09	7795.19	8676.28
Pipe	1,097.56	9,668.79	10,766.35	1097.56	9668.79	10766.35
Track	523.14	3,408.76	3,931.90	523.14	3408.76	3931.90
Other	325.22	5,638.45	5,963.67	325.22	5638.45	5963.67
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	1,605.58	1,783.98	178.40	1605.58	1783.98
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	574.49	601.98	1,176.47	574.49	601.98	1176.47
Sampling and Analysis						
Payroll Taxes	183.35	1,188.16	1,371.51	183.35	1188.16	1371.51
Liability Insurance	101.24	848.73	949.97	101.24	848.73	949.97
Other	3,851.94	31,044.36	34,896.30	3851.94	31044.36	34896.30
(8) Contingencies (specify): Less in excess of Maximum				4591.90	36609.89	39981.79
TOTALS	13,108.75	95,926.12	110,034.87	8736.85	66316.25	75053.10

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Aug. 14, 1958 *Payee American Smelting & Refining Co.

Per J. L. Hiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4368.43

Signature Dorothy F. Long (Authorized Certifying Officer)

Date 9/2/58 Vou. No. 2214

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E1134 in accordance with the terms of the contract.

Signature /s/ John D. Bardill Title Metallurgist Date August 18, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing L. Agnew Title Acting Exec. Date 8-28-57

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED SEP 18 1958 D.M.E.A.

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 195 8 Docket No. DMEA 4712 Contract No. DMEA 1134

Operator's Name American Smelting and Refining Company Minerals Lead and zinc

Address 120 Broadway, New York 5, N.Y. & Box 410, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting: Crosscutting	Foot	10,250.00	170.2	86,753.42	1522.5	56.98	12,185	10.00
Crosscutting D.D. Station	"						300	35.00
Raising Timbering	"	2,668.57	170.2	17,410.88	1012.2	17.20	3,950	10.50
Stoping Rock Bolting	Each			4,643.66	636	7.30	4,000	3.50
Winzes Car Siding	Cu Ft	190.18	315	1,226.92	1838	.67	14,800	.15
Drilling: Core AX	Foot							6.60
Core EX	"						11,855	6.10
Auger Incid.	"							.40
Sampling Core Boxes	Each						290	3.10
Preparing Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		13,108.75		110,034.87				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		13,108.75		110,034.87				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

REMARKS:

Date Aug. 14, 1958 Operator American Smelting & Ref. Co.

Per J. L. Kinsser Title Manager

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John D. Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

DIETZGEN NO. 352 107

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 19[illegible] Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	7486	88598	96084
Bits	11680	167870	179550
Hose and Fittings		7188	7188
Other		1859	1859
Total Drilling	19166	265515	284681
Rock Bolting:			
Bolts 4'			
Bolts 6'		188148	188148
Total Rock Bolts		188148	188148
Other Supplies:			
Cap Lamps	1001	7864	8865
Hand Tools		1607	1607
Miscellaneous	1258	6755	8013
Total Other Supplies	2259	16226	18485
Power:			
Lighting	186	1321	1507
Auxiliary Ventilation	554	3797	4351
Compressed Air	10357	88838	99195
Total Power	11097	93956	105053
Total Category 3 - Other Supplies	32522	563845	596367
Category 7 - Other:			
Underground Haulage	77540	87282	95522
Interior Hoisting	—	121500	121500
Main Hoisting	106068	767031	873099
Surface Haulage	13964	90957	104921
Drainage	8454	181903	190357
Main Ventilation	10168	82438	92606
Life Insurance	6090	37209	43299
Health and Accident Insurance	18536	122385	140921
Vacation Allowances	22936	129912	152848
Holidays	29752	103812	133564
Pension Accruals	73762	419644	493406
Dry Room	3271	40533	43804
First Aid	848	14560	15408
Medical-Surgical	3559	51784	55343
Timekeeping and Warehouse	10246	62486	72732
Total Category 7 - Other	385194	3104436	3489630

Wallace, Idaho
August 15, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - JULY 1958

During July, the East Page Drive advanced 170.2 feet for a total of 1,522.5 feet to date. The rocks penetrated are purplish argillaceous quartzite with thin white sandy beds. Strike is essentially parallel to the drive (N. 83° E.) and dip is 70° to 85° N. The rocks are cut by bedding plane slips and minor cross-slips. A stronger slip or fault striking N. 25° E. and dipping 80° W. has up to 3/4" gouge.

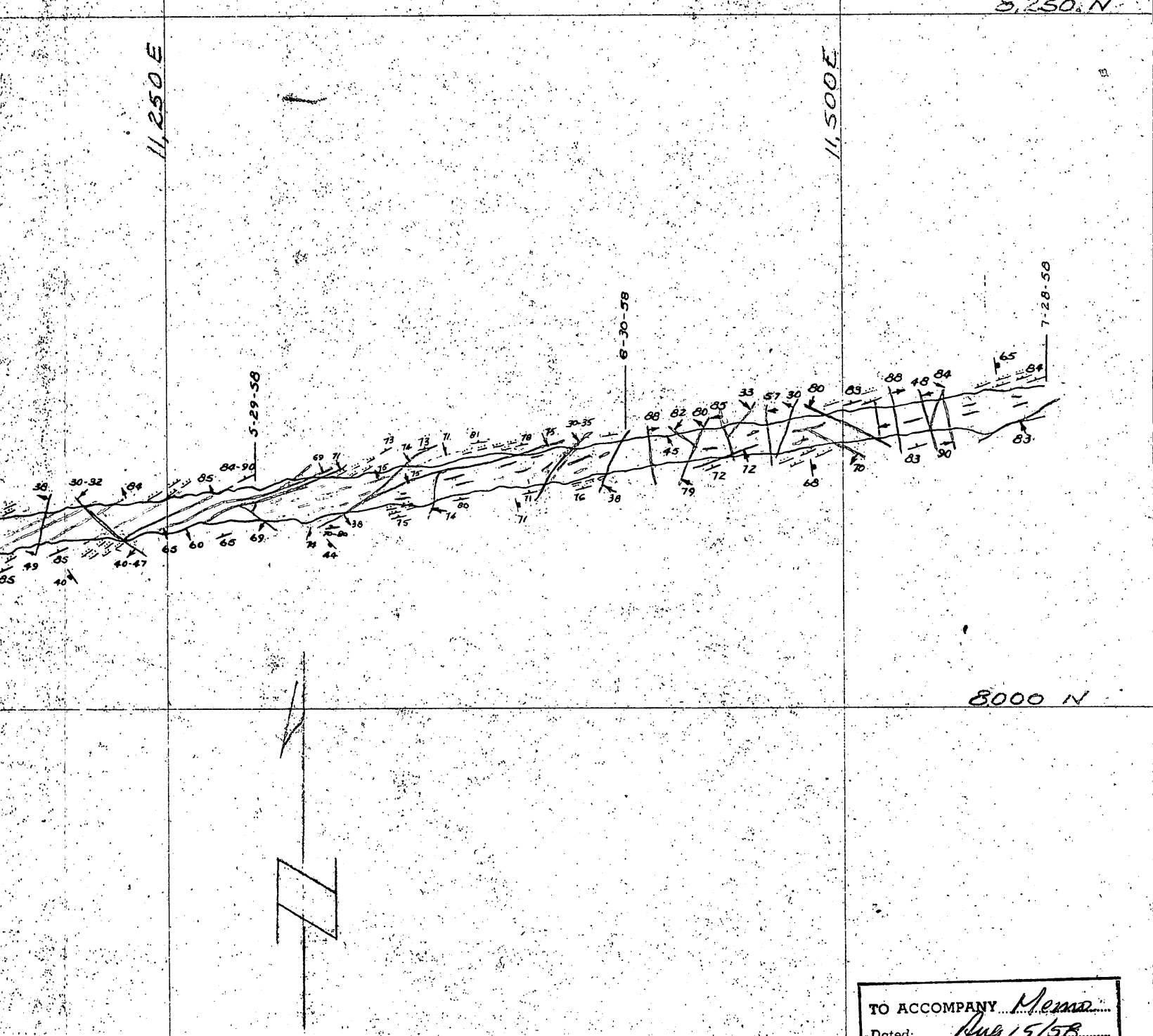
Because of the relationship between the bearing of the drive and the attitude of bedding and bedding plane slips, it was necessary to timber throughout the advance.

A 50-scale map showing the geology of this advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN



TO ACCOMPANY Memo
Dated: Aug 15/58
By: GNK
Filed:

AMERICAN SMELTING AND REFINING CO.				
UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1:50'	Drawn SHH	Date 7-30-58	Approved SNK	File No. N-150-P-167

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 8 1959

DATE	INITIALS	CODE

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED AUG 7 1958

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, N. Y. 5, N.Y. % Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				8/15/58		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	2,713.79	23,459.26	26,173.05	2713.79	23,459.26	26,173.05
Supervision	232.09	1,391.21	1,623.30	232.09	1391.21	1623.30
Technical Services	52.00	1,120.00	1,172.00	52.00	1120.00	1172.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,011.67	5,146.10	6,157.77	1011.67	5146.10	6157.77
Explosives	656.45	7,138.74	7,795.19	656.45	7138.74	7795.19
Pipe	1,188.58	8,480.21	9,668.79	1188.58	8480.21	9668.79
Track	340.64	3,068.12	3,408.76	340.64	3068.12	3408.76
Other	258.67	5,379.78	5,638.45	258.67	5379.78	5638.45
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	1,427.18	1,605.58	178.40	1427.18	1605.58
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	12.75	589.23	601.98	12.75	589.23	601.98
Sampling and Analysis						
Payroll Taxes	148.03	1040.13	1,188.16	148.03	1040.13	1188.16
Liability Insurance	88.19	760.54	848.73	88.19	760.54	848.73
Other	3,861.01	27,183.35	31,044.36	3861.01	27183.35	31044.36
(8) Contingencies (specify): Loss in Process Inventory				3858.25	24,723.75	28,582.00
TOTALS	10,742.27	86,183.85	96,926.12	6858.25	59458.00	66316.25

I certify that the above bill is correct and just and that payment therefor has not been received.

Date July 17, 1958 *Payee American Smelting and Refining Co.

Per J. L. Kiesert Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a wilfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3429.13

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 8/1/58 Vou. No. 2205

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E1134 in accordance with the terms of the contract.

Signature /s/ John D. Bardill Title Metallurgist Date July 18, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date July 22, 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952); however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
AUG 7 1958
D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195 8 Docket No. DMEA 1,712 Contract No. DMEA 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, N.Y. 5, N. Y. & Box 140, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting-Crosscutting	Feet	8,474.34	133	76,503.42	1,352.3	56.57	12,405	40.00
Crosscutting-C.D.Station	"						300	35.00
Raising-Timbering	"	2,067.71	133	14,742.31	842.0	17.51	3,950	10.50
Shafts-Rock Bolting	Each			4,643.66	636	7.30	4,000	3.50
Winzes-Car Sidings	Cu.Ft.	200.22	315	1,036.73	1,523	.68	14,000	.45
Drilling: Core AX	Feet							6.60
Churn 3"	"						11,055	6.40
Auger-Incld.	"							.40
Stripping-Core Boxes	Each						290	3.40
Trenching-Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		10,742.27		96,926.12				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		10,742.27		96,926.12				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

REMARKS:

Date July 17, 1958 Operator American Smelting and Refining Co.

Per J. L. Kinsor Title Manager

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John D. Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 195[illegible] Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	5878	82720	88598
Bits	9160	158710	167870
Hose and Fittings		7188	7188
Other		1859	1859
Total Drilling	15038	250477	265515
Rock Bolting:			
Bolts 4'			
Bolts 6'		188148	188148
Total Rock Bolts	—	188148	188148
Other Supplies:			
Cap Lamps	1001	6863	7864
Hand Tools		1607	1607
Miscellaneous		6755	6755
Total Other Supplies	1001	15225	16236
Power:			
Lighting	181	1140	1321
Auxiliary Ventilation	509	3288	3797
Compressed Air	9138	79700	88838
Total Power	9828	84128	93956
Total Category 3 - Other Supplies	25867	537978	563845
Category 7 - Other:			
Underground Haulage	127659	750623	878282
Interior Hoisting		121500	121500
Main Hoisting	84808	682223	767031
Surface Haulage	9925	81032	90957
Drainage	10168	171735	181903
Main Ventilation	10027	72411	82438
Life Insurance	5277	31932	37209
Health and Accident Insurance	16931	105454	122385
Vacation Allowances	19157	110755	129912
Holidays	25006	78806	103812
Pension Accruals	62416	357228	419644
Dry Room	3314	37219	40533
First Aid	36	14524	14560
Medical-Surgical	2835	48949	51784
Timekeeping and Warehouse	8542	53944	62486
Total Category 7 - Other	386101	2718335	3104436

Wallace, Idaho
July 16, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 LAST PAGE DRIVE
PROGRESS REPORT - JUNE 1958

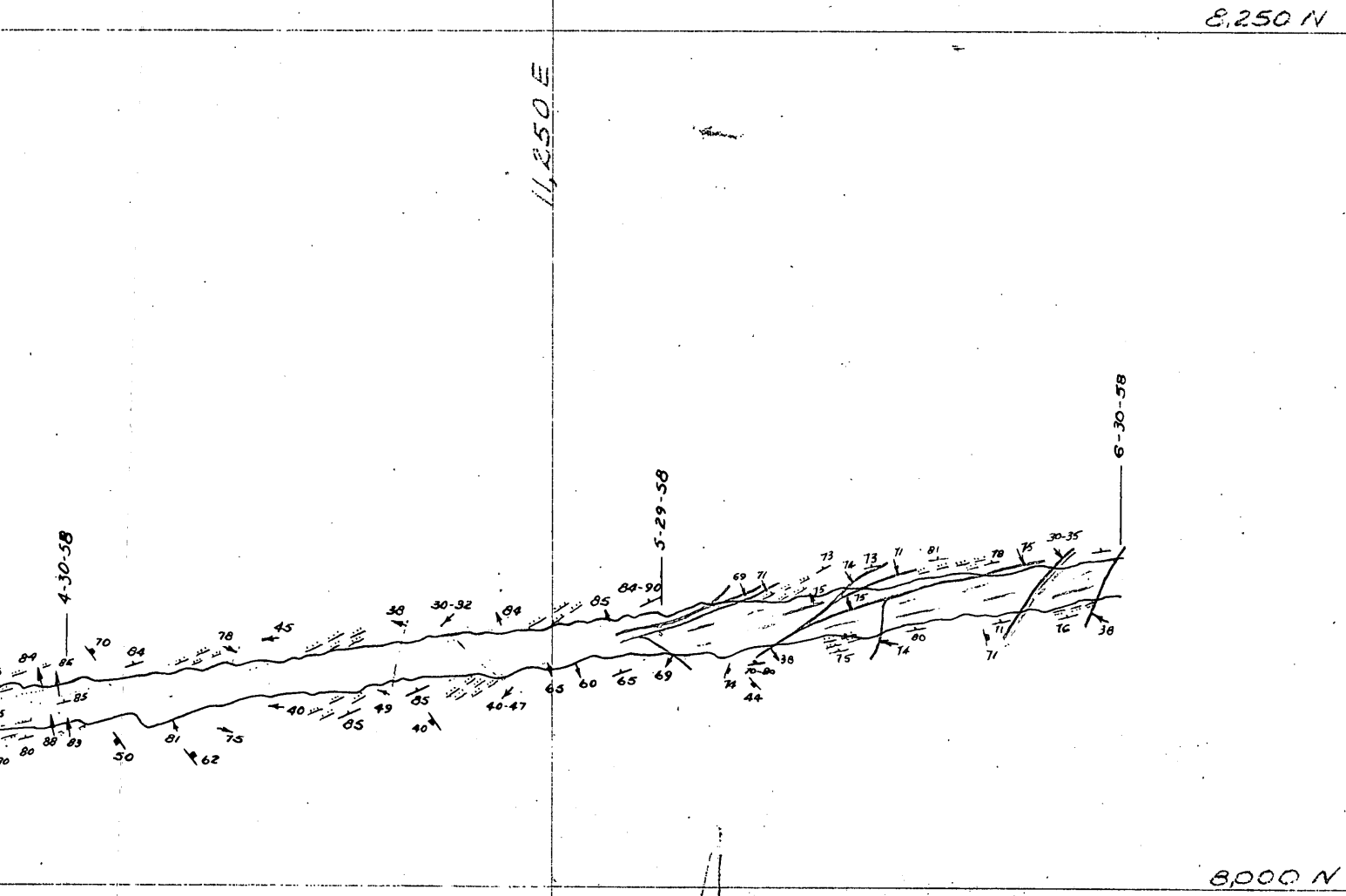
During June, the East Page Drive advanced 133.0 feet for a total of 1,352.3 feet to date. The drive exposes purple to light-gray argillites and interbedded sandy argillaceous quartzites. For most of the month's advance, the bedding and numerous bedding-plane faults strike approximately N. 65° E. and dip steeply to the north. In the present face, the bedding parallels the drive and dips steeply to the north. A few minor cross faults and joints are exposed. Poor ground conditions necessitated timbering throughout the month's advance.

A 50-scale map showing the geology of this advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN



TO ACCOMPANY Memo
Dated: July 16/58
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 6-30-58	Approved SNK	File No. N-150-P-167

OFFICIAL FILE COPY
D M E A
RECEIVED AUG 7 1958

DATE	INITIALS	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington
July 19, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 4 1958

DATE	INITIALS	CODE
8/4	H.g.	225
4	[illegible]	100
"	[illegible]	110
8/5	[illegible]	800
		500

MEMORANDUM

To: DMEA Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-4712 (Lead-Zinc), American Smelting and Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

An inspection of this property was made on July 9, 1958, by R. D. Sample, Geologist, Geological Survey, and John D. Bardill, Engineer, Bureau of Mines. After a review of the maps and discussion of the project with Mr. Troy Tower, Mine Superintendent, and Mr. John Butler, Mine Engineer, Mr. Butler accompanied the inspecting team to the 3070 level.

The east crosscut continues in a N. 83°13'00"E. direction through the light-colored, thin-bedded, siliceous rocks of the Burke formation for a total distance of 1,390 feet to the face. The last 500 feet is heavily timbered as the ground is highly fractured and the sides slabby. Some of the timber and track were being replaced because of the heavy ground. No significant mineralization or structures have been found so far in this crosscut.

All underground work at the mine is on a two-shift per day, 4 days per week basis. The 500-ton mill is also on a 4-day per week working basis.

Distribution:
DMEA (Orig. & 3)
USBM (2)
USBM(AD)
Docket
Sample

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1201 N. Division St.
Spokane 2, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 4 1958

DATE	INITIAL	CODE
		235
8/4		100
		110
8/5		800
		500

July 18, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Co., East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was inspected July 9, 1958, accompanied by R. D. Sample, geologist, U. S. Geological Survey, and John Butler, company engineer.

The 3070 east crosscut had advanced approximately 1,392 feet since the beginning of the contract. The ground is still heavy, necessitating timber.

At Sta. 1528 + 30 ft. a car transfer was cut on the south side excavating 315 cu. ft.

The following work had been completed at the time of the inspection:

3070 Level East Crosscut

Distance previously reported to Sta. 1505		804.26 ft.
Sta. 1505 - 1519	N 83° 13' E	90.35
1519 - 1526	" "	97.47
1526 - 1527	" "	116.16
1527 - 1528	" "	121.05
		1,229.29 ft.
1528 - face	" "	163.30
		1,392.59 ft.

Timbering

Sta. 1501 + 12' to 1501 + 140'	128.0 ft.
1502 + 85' to 1504 + 97.5'	265.0
1519 + 4.7 to 1528 + 163' (face)	493.3
	886.3 ft.

Sideswiping for Car Transfers

Previously reported	808 cu. ft.
At Sta. 1528 + 30'	315
	1,123 cu. ft.

Status of the contract and work completed as of July 9:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 59,458.00 (thru May 1958)

	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	1,392.59 ft.
Diamond drilling	11,855 ft.	0
Diamond drill stations	300 ft.	0
Car siding excavations	14,800 cu.ft.	1,123 cu. ft.
Timbering	3,950 ft.	886.3 ft.
Rock bolts	4,000	618

John D. Bardill

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Bardill

DMEA

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED JUN 18 1958 D.M.E.A.

Month of May, 1958 Docket No. DMEA 1712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N. Y. c/o Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				8/15/58		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	4,243.53	19,215.73	23,459.26	4243.53	19215.73	23459.26
Supervision	220.21	1,171.00	1,391.21	220.21	1171.00	1391.21
Technical Services	145.00	975.00	1,120.00	145.00	975.00	1120.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,233.58	3,912.52	5,146.10	1233.58	3912.52	5146.10
Explosives	1,103.22	6,035.52	7,138.74	1103.22	6035.52	7138.74
Pipe	1,393.44	7,086.77	8,480.21	1393.44	7086.77	8480.21
Track	616.37	2,451.75	3,068.12	616.37	2451.75	3068.12
Other	390.94	4,988.84	5,379.78	390.94	4988.84	5379.78
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	1,248.78	1,427.18	178.40	1248.78	1427.18
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	89.91	499.32	589.23	89.91	499.32	589.23
Sampling and Analysis						
Payroll Taxes	212.21	827.92	1,040.13	212.21	827.92	1040.13
Liability Insurance	123.34	637.20	760.54	123.34	637.20	760.54
Other	4,487.65	22,695.70	27,183.35	4487.65	22695.70	27183.35
(8) Contingencies (specify) Pension Plans				4271.20	22454.05	26725.25
Totals	14,437.80	71,746.05	86,183.85	10,166.00	49,292.00	59,458.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date June 17, 1958 *Payee American Smelting and Refining Company

Per J. L. Kiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5083.00

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 7/11/58 Vou. No. 2189

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E1134 in accordance with the terms of the contract.

Signature /s/ John D. Bardill Title Metallurgist Date June 19, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ W. C. Weisenborn Title Exec. Officer Date July 10, 1958

MONTHLY REPORT OF OPERATOR

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(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

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Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

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Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED JUN 17 1958 D.M.E.A.

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 195 8 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N. Y. c/o Box 440 Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting: ~~Crosscutting~~	Foot	11,688.75	198.5	68,029.08	1219.3	55.79	12,485	40.00
~~Crosscutting~~ D.D. Station	"						300	35.00
~~Raising~~ Timbering	"	2,563.81	198.5	12,674.60	753.9	16.81	3,950	10.50
~~Shafts~~ Rock Bolting	Each			4,643.66	636	7.30	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.	185.24	315	836.51	1208	.69	14,800	.45
Drilling: ~~Core~~ AX	Foot							6.60
~~Churn~~ EX	"						11,855	6.40
~~Augers~~ Incid.	"							.40
~~Stripping~~ Core Boxes	Each						290	3.40
~~Trenching~~ Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		14,437.80		86,183.85				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		14,437.80		86,183.85				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 17, 1958 Operator American Smelting and Refining Company

Per J. C. Kinser Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John D. Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

QUEYZBEN - NO. 352-107

Supplement To OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 19[illegible] Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name - American Smelting and Refining Company Minerals - Lead and Zinc

Address - 120 Broadway, New York 5, N. Y., c/o Box 440, Wallace, Idaho

	Monthly Total	Totals Previously Reported	Totals To Date
Category 3 - Other Supplies:			
Drilling:			
Rods	12830	69890	82720
Bits	11680	147030	158710
Hose and Fittings		7188	7188
Other		1859	1859
Total Drilling	24510	225967	250477
Rock Bolting:			
Bolts 4'		-	-
Bolts 6'		188148	188148
Total Rock Bolts	-	188148	188148
Other Supplies:			
Cap Lamps	1001	5862	6863
Hand Tools		1607	1607
Miscellaneous		6755	6755
Total Other Supplies	1001	14224	15225
Power:			
Lighting	191	949	1140
Auxiliary Ventilation	524	2764	3288
Compressed Air	12868	66832	79700
Total Power	13583	70545	84128
Total Category 3 - Other Supplies	39094	498884	537978
Category 7 - Other:			
Underground Haulage	126627	623996	750623
Interior Hoisting	-	121500	121500
Main Hoisting	134506	547717	682223
Surface Haulage	12755	68277	81032
Drainage	10941	160794	171735
Main Ventilation	10976	61435	72411
Life Insurance	6285	25647	31932
Health and Accident Insurance	20249	85205	105454
Vacation Allowances	22666	88089	110755
Holidays	608	78198	78806
Pension Accruals	71800	285428	357228
Dry Room	4826	32393	37219
First Aid	4583	9941	14524
Medical-Surgical	12012	36937	48949
Timekeeping and Warehouse	9931	44013	53944
Total Category 7 - Other	448765	2269570	2718335

Wallace, Idaho
June 18, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - MAY 1958

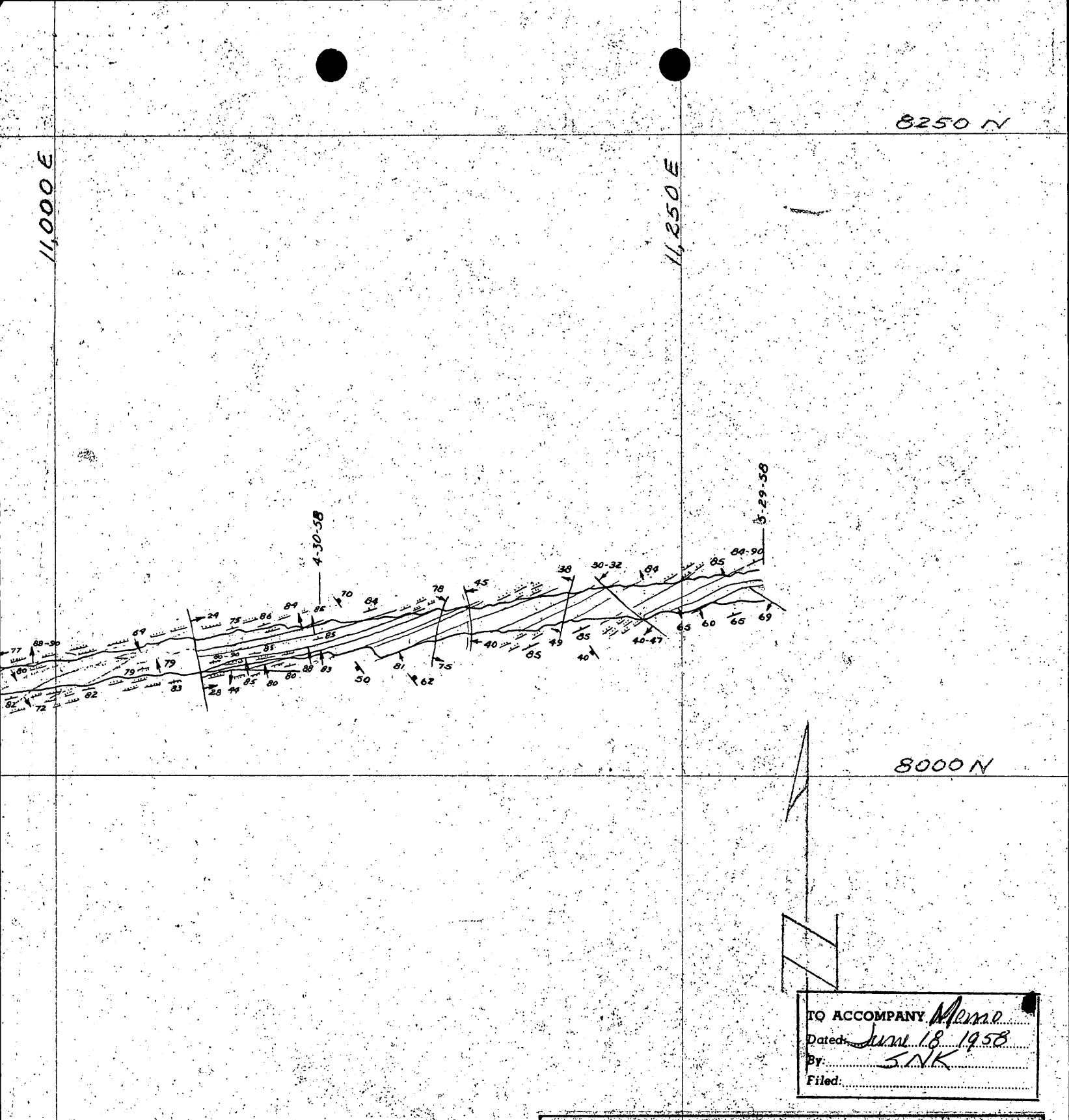
During May, the East Page Drive advanced 198.5 feet for a total of 1,219.3 feet to date. The drive exposes purple to light gray argillites and interbedded sandy argillaceous quartzites. The bedding and numerous bedding plane faults strike approximately N. 65° E. and dip approximately 85° northerly. Two parallel reverse faults in the present face strike N. 80° E. and dip 60° to 65° southerly. In the hanging wall of these faults, the bedding becomes flatter, dipping 65° northerly. Poor ground conditions necessitated timbering throughout the month's advance.

A 50-scale map showing the geology of this advance is attached.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN



TO ACCOMPANY Memo
Dated: June 18 1958
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 5-29-58	Approved SNK	File No. N-150-P-167

EXTRA COPY
D M E A
RECEIVED JUL 17 1958

DATE	INITIALS	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
1201 N. Division St.
Spokane 2, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 26 1958

DATE	INITIALS	AMOUNT
6/26	H.g.	225
26	[illegible]	100
"	[illegible]	110
6/27	[illegible]	800
~~6/30~~	~~[illegible]~~	~~500~~

June 6, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection report, Docket No. DMEA-4712 (lead-zinc) American Smelting & Refining Co., East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was inspected May 28, 1958, accompanied by R. D. Sample, geologist, U. S. Geological Survey, and Troy M. Tower, mine superintendent.

The 3070 level east crosscut had advanced about 1,190 feet since the beginning of the contract. The crosscut is in Burke formation.

The Operator has timbered approximately the last 300 feet rather than rock bolt the ground. Several sections that had been rock bolted did not stand and were timbered over.

Footnote 2 of Exh. A.

At Sta. 1505 + 235 feet a car transfer was cut on the south side, excavating 315 cubic feet.

The following work has been completed since the start of the contract:

3070 Level East Crosscut

Distance previously reported to Sta. 1503		608.07 feet
Sta. 1503 - 1504	N.83° 13' E	96.61
Sta. 1504 - 1505	N.83° 13' E	99.58
		804.26
Sta. 1505 - face	N.83° 13' E	385.50
		1189.76 ft.

Timbering

Sta. 1501 + 12' to 1501 + 140'	128.0
Sta. 1505 + 95' to Sta. 1505 + 385.5'	290.5
Sta. 1502 + 85' to Sta. 1502 + 350'	265.0
	683.5

Sideswiping for car transfers

Previously reported	593 cu. ft.
At Sta. 1505 + 235 ft.	315 " "
	808 cu. ft.

Status of the contract as of May 28, 1958:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 49,292.00 (thru April)

	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	1,189.76 ft.
Diamond drilling	11,855 ft.	0
Diamond drill stations	300 ft.	0
Car siding excavations	14,800 cu. ft.	808 cu. ft.
Timbering	3,950 ft.	683.5 ft.
Rock bolts	4,000 bolts	618 bolts

There has been no ore production subject to DMEA royalty payment.

John D. Bardill

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Bardill

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 26 1958

DATE	INITIAL	
6/26	H.g.	225
26	Cou	100
"		110
6/27		800
~~6/30~~	~~WMB~~	~~500~~

June 3, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-4712 (Lead-Zinc), American Smelting and Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

R. D. Sample and John D. Bardill, Mining Engineer, U. S. Bureau of Mines, inspected the above project on May 28, 1958. Mr. Troy Tower, mine superintendent was met at the mine office and accompanied the inspectors underground to the 3070 level where DMEA work is in progress.

The east crosscut on the 3070 level continues in a N. 83°13' E.' direction and is now cutting through light-colored, thin-bedded, siliceous rocks of the Burke formation. The ground is still very heavy with the sides slabbing badly. Roof bolts will not hold this ground and it must be heavily timbered. A short strip of the crosscut, about 25 feet, was anchored by a combination of steel roof bolts and coarse chicken wire. This experiment is not too successful in holding the loose ground, and the Operators may soon have to timber this section. The DMEA project had progressed to a total of 1,190 feet at the time of inspection. Work is on an 8-shift per week basis. About 5 feet of advance is made per shift. Small faults and fractures have been encountered, but no mineralization has been found. Near the face the formation is predominantly purple and green argillite with less faulting and fracturing but still requiring timber.

Below the 3070 level, the Operators had established a station on the 3400 level. Their plans were to conduct an exploration program on that level by crosscutting and drilling. However, since the Operators have gone on a 4-day per week work basis, this plan has been temporarily shelved. All equipment has been removed from the 3400 level and the station is now flooded.

Milling proceeds on a 4-day per week basis and processes about 500 tons of ore per day.

Distribution:
DMEA (Orig. & 3)
USBM (2)
USBM (AD)
Docket
Sample

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

RECEIVED JUN 9 1958

DATE		CODE
6/9	C	220
9	Cour	100
"		110
6/29		800
6/12		500

May 20, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-4712 (Lead-Zinc), American Smelting and Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was visited May 15, 1958 by R. D. Sample, U. S. Geological Survey and John D. Bardill, Mining Engineer, U. S. Bureau of Mines. Mr. Troy M. Tower, mine superintendent, was met at the mine office. Mining in general and the DMEA program in particular were discussed. The inspectors were informed that beginning May 18, 1958, the Page mine operations would be on a 4-day basis. This change will reduce the production of ore from about 10,000 tons per month to 8,000 tons per month or about 20 percent, and will likewise reduce the rate of progress of the DMEA work.

The 3070 level east crosscut has advanced about 1,128 feet since the start of the DMEA contract. The ground continues to be loose and heavy and requires heavy timbering. The back holds fairly well but the sides slab badly. In a few places where previously installed roof bolts did not support the ground, it has been necessary to add timber sets. Crosscutting continues on a 2-shift per day basis and about 5 feet of progress is made per shift or 10 feet per day.

Mr. Tower reports that the company is adjusting their sand filling plant to increase the amount of sand fill for the stopes. The present sand fill plant processes about 100 tons of sand per day from the mill tailings but the mine could use more.

Distribution:
DMEA (Orig. & 3)
USBM (2)
USBM (AD)
Docket
Sample

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED 1958 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1958 Docket No. DMEA 1712 Contract No. IDMAE 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, New York c/o Box 440 Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				6/30/58	W.T.K.	
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	2,742.66	16,473.07	19,215.73	2742.66	16,473.07	19,215.73
Supervision	199.75	971.25	1,171.00	199.75	971.25	1171.00
Technical Services	146.00	829.00	975.00	146.00	829.00	975.00
(3) Operating Mat'ls. and Supplies:						
Timber	915.66	2,996.86	3,912.52	915.66	2996.86	2912.52
Explosives	540.85	5,494.67	6,035.52	540.85	5494.67	6035.52
Pipe	758.72	6,328.05	7,086.77	758.72	6328.05	7086.77
Track	300.79	2,150.96	2,451.75	300.79	2150.96	2451.75
Other	451.84	4,537.00	4,988.84	451.84	4537.00	4988.84
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	1,070.38	1,248.78	178.40	1070.38	1248.78
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	70.71	428.61	499.32	70.71	428.61	499.32
Sampling and Analysis						
Payroll Taxes	136.30	691.62	827.92	136.30	691.62	827.92
Liability Insurance	79.01	558.19	637.20	79.01	558.19	637.20
Other	2,849.40	19,846.30	22,695.70	2849.40	19846.30	22695.70
(8) Contingencies (specify): Less in kind 9 months				1967.89	20486.16	22454.05
TOTALS	9,370.09	62,375.96	71,746.05	7402.20	41,889.80	49,292.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date May 19, 1958 *Payee American Smelting and Refining Company

Per J. C. Kinser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3401.10

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 6/2/58 Vou. No. 2168

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6 1134 in accordance with the terms of the contract.

Signature /s/ John D. Bardill Title Metallurgist Date May 21, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date May 29, 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit; that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED 1958 Denver

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 195 8 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, New York c/o Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting-Crosscutting	Foot	6,653.40	139.1	56,340.33	1020.8	55.19	12,485	40.00
~~Crosscutting~~ D.D. Station	"	(a)					300	35.00
~~Raising~~ Timbering	"	2,250.39	162.4	10,110.79	555.4	18.20	3,950	10.50
~~Shafts~~ Rock Bolting	Each	466.30	90	4,643.66	636(b)	7.30	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.			651.27	893	.73	14,800	.45
Drilling: ~~Core~~ AX	Foot							6.60
~~Chum~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"							.40
~~Stripping~~ Core Boxes	Each						290	3.40
~~Trenching~~ Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		9,370.09		71,746.05				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		9,370.09		71,746.05				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date May 19, 1958 Operator American Smelting and Refining Company

Per J. C. Kiesser Title Manager

REMARKS:
(a) Cost of timbering includes credit for 52 rock bolts @ 3.50 each that were in re-timbered area
(b) Rock Bolt "Units to Date" have been reduced by 52 account of credit to timbering.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John A. Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
May 19, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

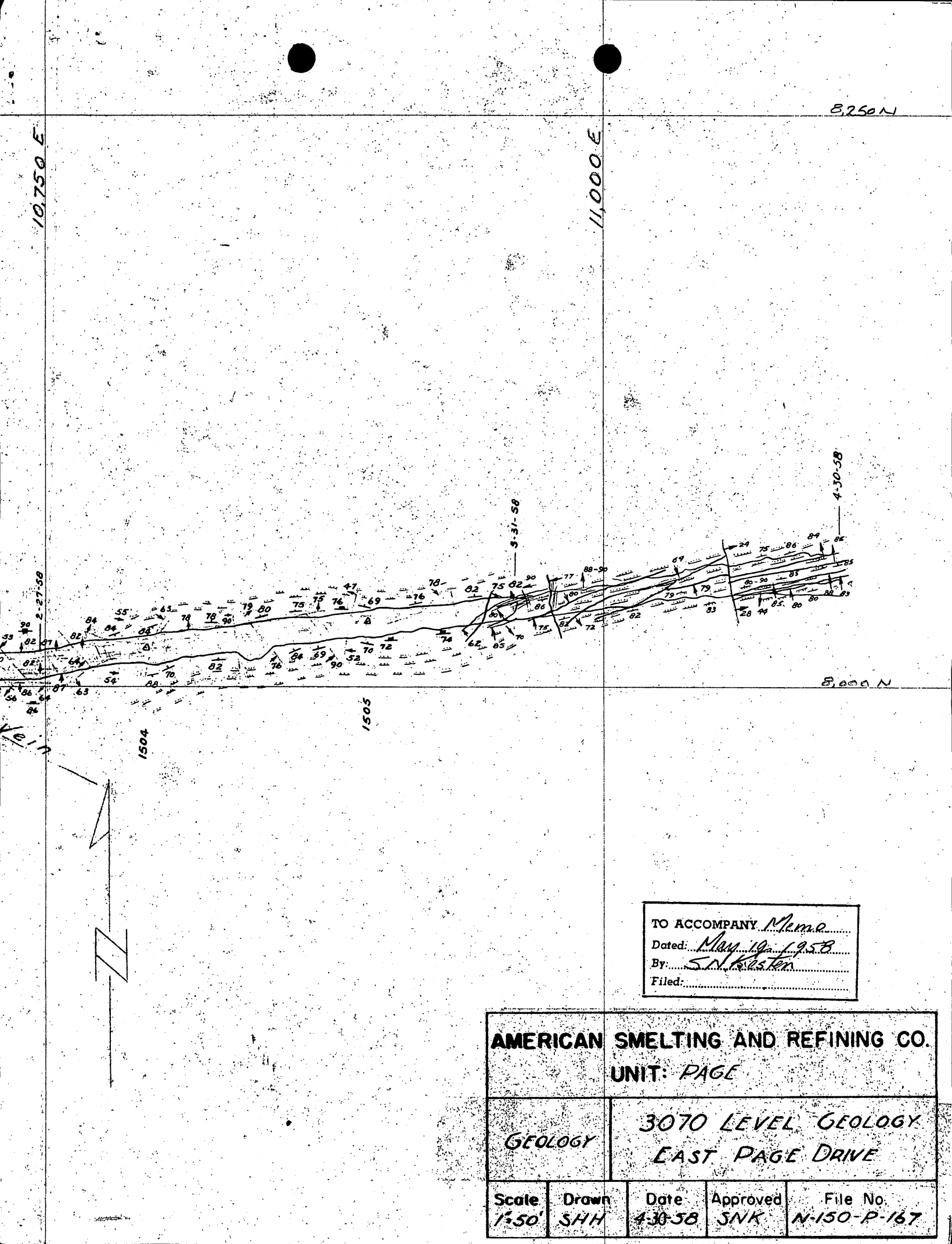
PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - APRIL, 1958

During April, the drive advanced 139.1 feet for a total of 1,020.8 feet to date. The early portion of the advance was through buff and green argillaceous quartzite finely banded with gray to gray-green argillaceous quartzite. After crossing a strong slip which dips steeply to the north and strikes about N. 75° E., or at a small angle to the bearing of the drive, the drive entered purple and green argillite and green to gray argillaceous quartzite. The purplish coloration in part crosses the bedding and is most obvious along slips and joints, but in part it conforms with the bedding. The soft, faulted, argillaceous rocks caused poor ground conditions and necessitated timbering and spiling. At the end of the period, the face was in predominantly purple and green argillite, with less prominent faulting, and progress was somewhat less difficult.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN



TO ACCOMPANY Memo
Dated: May 19, 1958
By: S.N. Kiesten
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 4-30-58	Approved SNK	File No. N-150-P-167

ORIGINAL FILE COPY
DMEA
RECEIVED JUN 9 1958
DATE CODE

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPORTATION ADMINISTRATION

RECEIVED MAY 5

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134

Operator's Name American Smelting and Refining Company Minerals Lead and Zinc

Address 120 Broadway, New York 5, N.Y. % Box 440, Wallace, Idaho

Contract Amount, $ 660,206 Government Participation: 50% Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,833.33	12,639.74	16,473.07	3833.33	12,639.74	16,473.07
Supervision	288.71	682.54	971.25	288.71	682.54	971.25
Technical Services	227.00	602.00	829.00	227.00	602.00	829.00
(3) Operating Mat'ls. and Supplies:						
Timber	913.78	2,083.08	2,996.86	913.78	2083.08	2996.86
Explosives	1,116.04	4,378.63	5,494.67	1116.04	4378.63	5494.67
Pipe	1,474.28	4,853.77	6,328.05	1474.28	4853.77	6328.05
Track	586.73	1,564.23	2,150.96	586.73	1564.23	2150.96
Other	547.92	3,989.08	4,537.00	547.92	3989.08	4537.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	891.98	1,070.38	178.40	891.98	1070.38
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	5.50	423.11	428.61	5.50	423.11	428.61
Sampling and Analysis						
Payroll Taxes	216.73	474.89	691.62	216.73	474.89	691.62
Liability Insurance	123.16	435.03	558.19	123.16	435.03	558.19
Other	5,462.35	14,383.95	19,846.30	5462.35	14383.95	19846.30
(8) Contingencies (specify):						
Less in Excess of Maximum				5266.78	15219.28	20486.06
TOTALS	14,973.93	47,402.03	62,375.96	9707.15	32,182.65	41,889.80

I certify that the above bill is correct and just and that payment therefor has not been received.

Date April 21, 1958 Payee American Smelting and Refining Company

Per J. C. Kiesser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4853.58

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 5/1/58 Vou. No. 2154

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ John A. Bardell Title Metallurgist Date April 22, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. C. Weissenborn Title Exec. Officer Date April 30, 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

RECEIVED
APR 5 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N. Y. %Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting-Crosscutting	Foot	12,683.76	203.7	49,686.93	881.7	56.35	12,485	40.00
Crosscutting DD Station	"						300	35.00
Raising Timbering	"	1,941.24	124.3	7,860.40	393.0	20.00	3,950	10.50
Shafts Rock Bolting	Each	146.60	34	4,177.36	598	6.99	4,000	3.50
Winzes Car Sidings	Cu.Ft.	202.33	300	651.27	893	.73	14,800	.45
Drilling: Core AX	Foot							6.60
Churn EX	"						11,855	6.40
Auger Incid.	"							.40
Stripping Core Boxes	Each						290	3.40
Trenching Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		14,973.93		62,375.96				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS		14,973.93		62,375.96				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date April 21, 1958 Operator American Smelting and Refining Company

Per J. C. Kiesser Title Manager

REMARKS:

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John S. Bardell

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
April 21, 1958

MEMORANDUM FOR MR. J. C. KIESTER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - MARCH 1958

During March, the drive advanced 203.7 feet for a total of 881.7 feet to date. The work exposed light grey to buff quartzite which is highly fractured throughout the first 130 feet of advance. In the last 70 feet, the ground is sufficiently competent to make timbering unnecessary. The bedding parallels the drift and dips steeply to the north. No mineralization is exposed in the month's advance.

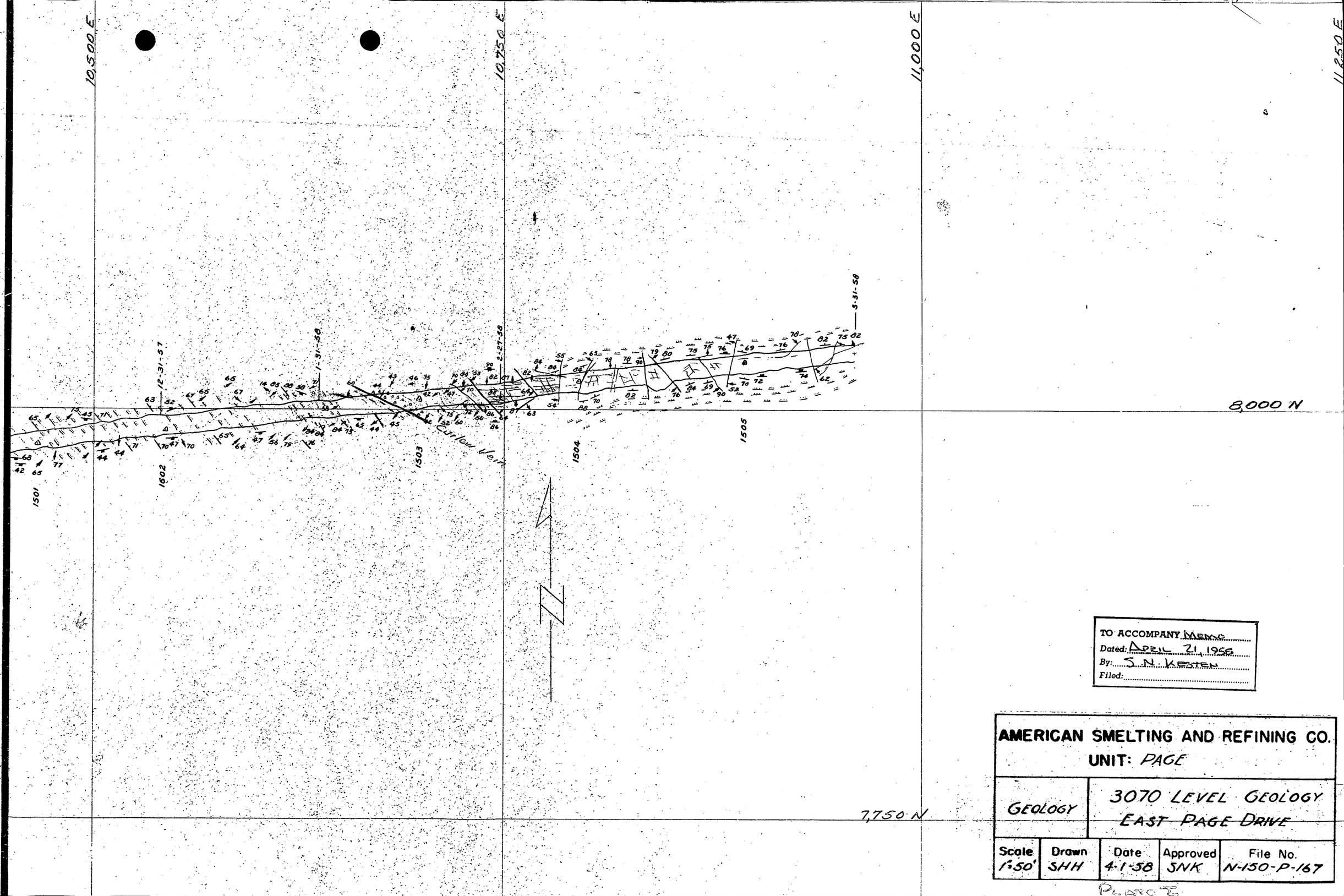
Plate I is a 50-scale geologic plan of the pertinent portion of the 3070 level.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

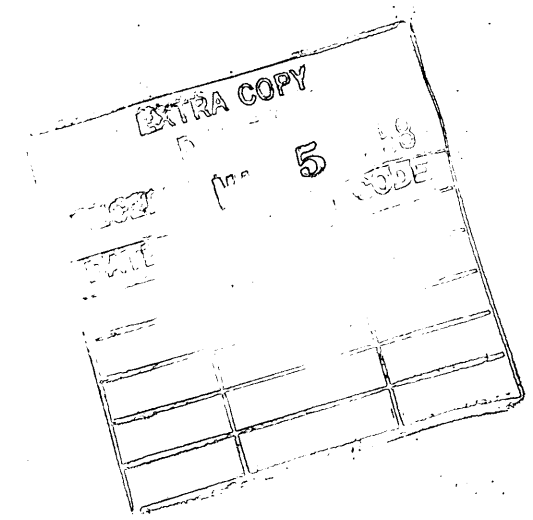
SNK:ajm
Attachment



TO ACCOMPANY MEMO
Dated: APRIL 21, 1958
By: S. N. KESTEN
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 4-1-58	Approved SNK	File No. N-150-P-167

PLATE I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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

March 24, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED APR 10 1958

DATE	INITIAL	CODE
4/10	B	220
10	Corr	100
11	[illegible]	110
4/11	[illegible]	800
4/11	[illegible]	405

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection report, Docket No. DMEA-4712 (lead-zinc) American Smelting & Refining Co., East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was inspected March 7, 1958, accompanied by Mr. T. M. Tower, mine superintendent.

The 3070 level east crosscut had advanced 713 feet since the start of the contract. Approximately the last 160 feet is in bad ground and cuts diagonally across what may be the Curlew vein.

A 24-foot section was rock bolted with chain link fencing which now appears will not hold the ground and may have to be timbered. Eighty-two bolts were used.

Some sideswiping to enlarge the drift for timbering which was formerly rock bolted was disallowed.

The following crosscut advance has been made since the start of the contract:

Previously reported DMEA crosscut advance to Survey Station No. 1502		452.18 ft.
Sta. 1502 to Sta. 1503	N 83° 13' E	155.89
		608.07
Sta. 1503 to face		105.00
		713.07

Crosscut was timbered from

Sta. 1502 + 100 ft. to Sta. 1503 + 102 ft. or 158 feet

Sideswiping for car stations since start of contract

At Sta. 1496 + 70 ft.	216 cu. ft.
At Sta. 1497 + 45 ft.	209
At Sta. 1501 + 49 ft.	168
	593 cu. ft.

Status of contract as of March 7, 1958 was:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 26,762.35 (thru Jan. 1958)

	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	713.07 ft.
Diamond drilling	11,855	0
Diamond drill stations	300	0
Car siding excavations	14,800 cu. ft.	593 cu. ft. 594
Timbering	3,950 ft.	301 ft.
Rock bolts	4,000	608
Core boxes	290	0
Assays	4,200	0

There has been no DMEA production from this project.

John D. Bardill

John D. Bardill

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Bardill

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 41-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 195 8 Docket No. DMEA 4712 Contract No. ITM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. & Box 410, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				4/15/58		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	2,741.08	9,898.66	12,639.74	2741.08	9898.66	12,639.74
Supervision	172.30	510.24	682.54	172.30	510.24	682.54
Technical Services	182.00	420.00	602.00	182.00	420.00	602.00
(3) Operating Mat'ls. and Supplies:						
Timber	932.07	1,151.01	2,083.08	932.07	1151.01	2083.08
Explosives	529.36	3,849.27	4,378.63	529.36	3849.27	4378.63
Pipe	843.21	4,010.56	4,853.77	843.21	4010.56	4853.77
Track	178.09	1,386.14	1,564.23	178.09	1386.14	1564.23
Other	327.20	3,661.88	3,989.08	327.20	3661.88	3989.08
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	713.58	891.98	178.40	713.58	891.98
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		423.11	423.11		423.11	423.11
Sampling and Analysis						
Payroll Taxes	142.63	332.26	474.89	142.63	332.26	474.89
Liability Insurance	82.52	352.51	435.03	82.52	352.51	435.03
Other	3,280.46	11,103.49	14,383.95	3280.46	11103.49	14383.95
(8) Contingencies (specify): Less w/ Space & Maximum				1169.02	11050.36	12219.38
TOTALS	9,589.32	37,812.71	47,402.03	5420.30	26762.35	32182.65

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Mar. 20, 1958 *Payee American Smelting & Refining Co.
ORIGINAL SIGNED
Per [illegible] Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 2710.15

Signature Harvey F. Long
(Authorized Certifying Officer)

Date 4/7/58 Vou. No. 2141
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ John D. Bardill Title Metallurgist Date March 24, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date April 1, 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED APR 21 1958

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1958 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. & Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
		5,000.00						
Drifting ~~Crosscutting~~	Foot	7,033.37	125	37,003.17	678	54.58	12,485	40.00
~~Crosscutting~~ D.D. Stations	"	1,312.50					300	35.00
~~Raising~~ Timbering	"	3,892.07	125	5,919.16	268.7	22.03	3,950	10.50
~~Shafts~~ Rock Bolting	Each	257.11	32	4,030.76	564	7.15	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.	1,593.23	*-1,796	448.94	593	.76	14,800	.45
Drilling: ~~Core~~ AX	Foot							6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Inoid.	"							.40
~~Stripping~~ Core boxes	Each						290	3.40
~~Trenching~~ Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		9,589.32		47,402.03				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		9,589.32		47,402.03				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Mar. 20, 1958 Operator American Smelting and Refining Company

Per ORIGINAL SIGNED J. C. KIEFFER Title Manager

REMARKS: * Adjustment for 1,796 cu. ft. enlarging drift for timbering erroneously charged to car sidings. See your letter of 3-11-58.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John A. Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
March 20, 1958

MEMORANDUM FOR MR. J. C. KLEFFER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - FEBRUARY 1958

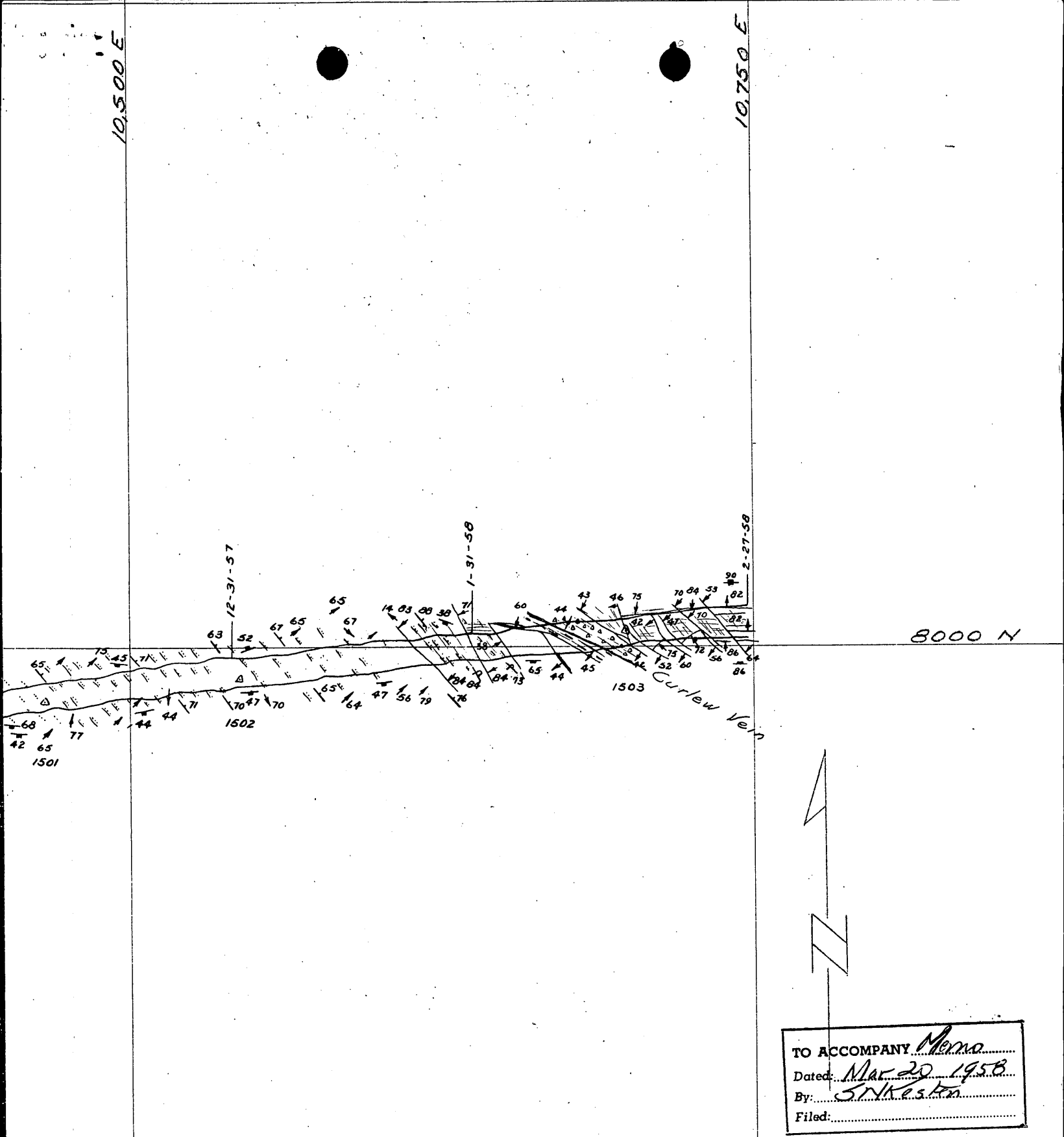
During February 1958, the East Page Drive was advanced 125.0 feet for a total of 678.0 feet to date. Advance was through highly fractured and sheared Revett quartzite. The Curlew Vein was intersected at approximately 40 feet east of the face at last month's end and, as seen in the heading, strikes N. 70° W. and dips 44° SW. There is a 2-inch to 3-inch seam of black pyritic gouge and chlorite, with no significant values, with 4 feet of discontinuous barren quartz stringers in the hanging wall. The footwall, for a width of 8 to 10 feet, consists of highly brecciated and sericitized quartzite, containing unusually large amounts of disseminated pyrite.

Plate I is a 50-scale geologic plan of the pertinent portion of the 3070 level.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN



TO ACCOMPANY Memo
Dated: Mar 20 1958
By: SNKestin
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn SHH	Date 3-3-58	Approved SNK	File No. N-150-P-167

EXTRA COPY
DMEA
RECEIVED [illegible] JUL 1958

DATE	NAMES	CODE

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1958 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N. Y., c/o Box 440 Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				3/17/58 W.P.K.		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	2,971.47	6,927.19	9,898.66	2971.47	6927.19	9898.66
Supervision	182.04	328.20	510.24	182.04	328.20	510.24
Technical Services		420.00	420.00		420.00	420.00
(3) Operating Mat'ls. and Supplies:						
Timber	1,151.01		1,151.01	1151.01		1151.01
Explosives	660.30	3,188.97	3,849.27	660.30	3188.97	3849.27
Pipe	2,810.42	1,200.14	4,010.56	2810.42	1200.14	4010.56
Track	287.99	1,098.15	1,386.14	287.99	1098.15	1386.14
Other	538.67	3,123.21	3,661.88	538.67	3123.21	3661.88
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	535.18	713.58	178.40	535.18	713.58
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	19.38	403.73	423.11	19.38	403.73	423.11
Sampling and Analysis						
Payroll Taxes	139.92	192.34	332.26	139.92	192.34	332.26
Liability Insurance	81.00	271.51	352.51	81.00	271.51	352.51
Other	3,352.34	7,751.15	11,103.49	3352.34	7751.15	11103.49
(8) Contingencies (specify): Less in Excess of Maximum				[illegible]	[illegible]	[illegible]
TOTALS	12,372.94	25,439.77	37,812.71	6456.60	20305.75	26762.35

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Feb. 19, 1958 *Payee American Smelting and Refining Company

Per J. L. Kirsch Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

3228.30

$ 3228.30

Signature Timothy F. Long
(Authorized Certifying Officer)

Date 3/3/58 Vou. No. 2126

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 6 11234 in accordance with the terms of the contract.

Signature /s/ John A. Bardell Title Metallurgist Date Feb. 24, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing G. Agnew Title Acting Exec Date 2-28-58

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED MAR. 7 1958

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1958 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N. Y., c/o Box 440 Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting Crosscutting	Foot	8,241.97	97.3	29,969.80	553.0	54.19	12,485	40.00
Crosscutting D.D. Stations	"						300	35.00
Raising Timbering	"	2,027.09	143.7	2,027.09	143.7	14.11	3,950	10.50
Shafts Rock Bolting	Each	361.70	49	3,773.65	532b	7.09	4,000	3.50
Winzes Car Sidings	Cu.ft.	1,742.18	1,965	2,042.17	2,390	.85	14,800	.45
Drilling: Core AX	Foot							6.60
Churn EX	"						11,855	6.40
Auger Incid.	"							.40
Stripping Core boxes	Each						290	3.40
Trenching Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		12,372.94		37,812.71				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		12,372.94		37,812.71				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Feb. 19, 1958 Operator American Smelting and Refining Company

Per J. L. Kirbert Title Manager

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

REMARKS:
(a) Cost of timbering includes credit for 56 rock bolts @ 3.50 each that were in re-timbered area.
(b) Rock bolt "Units to Date" have been reduced by 56 account of credit to timbering

(Instructions on reverse)

(For Government use only)

/s/ John A. Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
February 19, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - JANUARY 1958

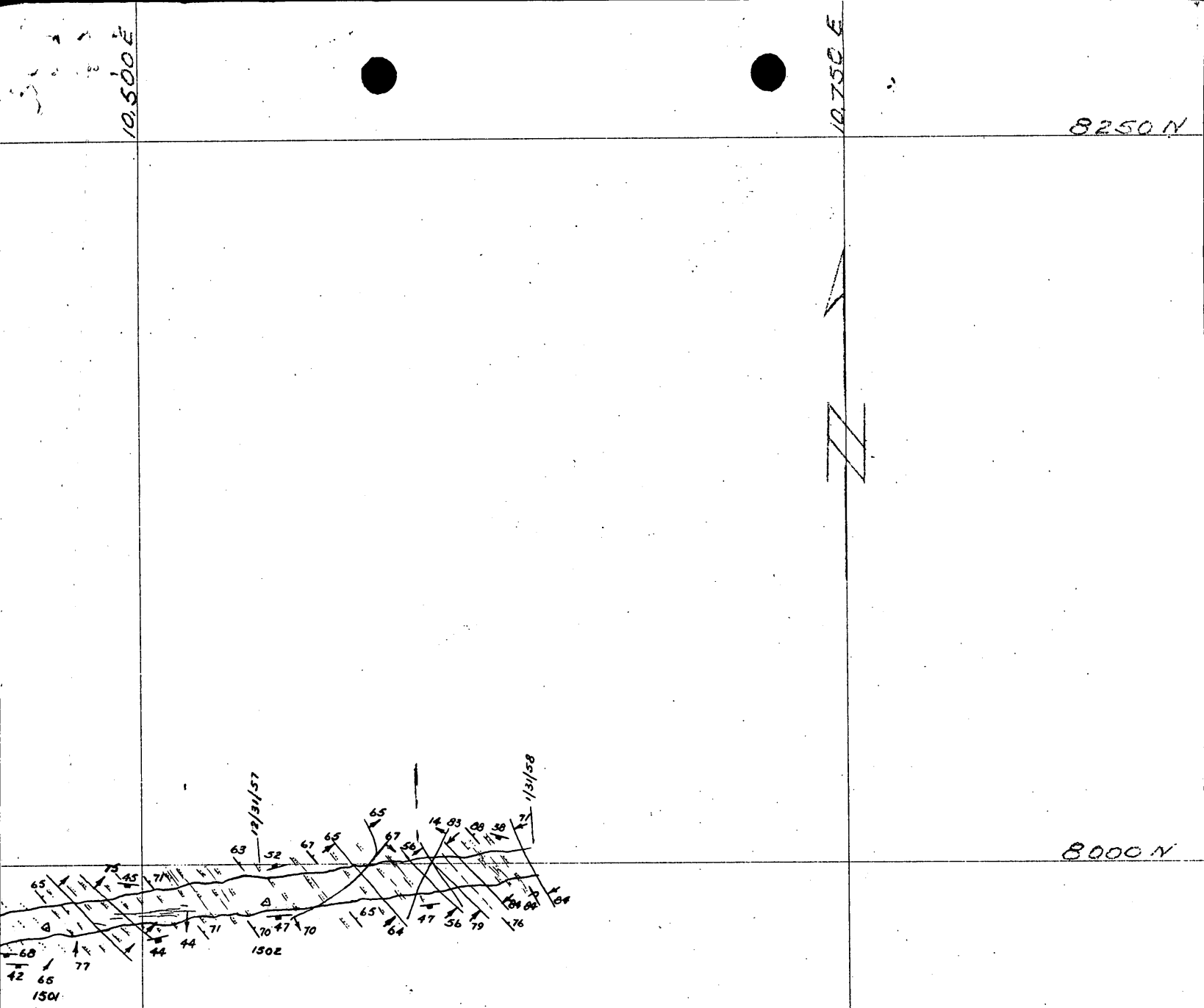
During January 1958, the East Page Drive advanced 97.3 feet for a total to date of 553.0 feet. Advance was through thin-bedded, light grey to buff slightly argillaceous quartzites. The beds strike northwesterly and dip steeply northeasterly, but at the face at the end of the period the bedding is overturned and dips steeply to the southwest. There are numerous minor bedding plane faults. Advance was curtailed by the necessity for timbering but near the face rock bolting was resumed.

Plate I is a 50-scale geologic plan of the pertinent portion of the 3070 level.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN



TO ACCOMPANY Memo
Dated: Feb. 19 1958
By: S.N. Kesten
Filed:

PAGE MINE
3070 LEVEL
EAST PAGE DRIVE
1" = 50
2-3-58 SHH
From File No. N-150-P-167

PLATE I

Officials Mail Copy
DMEA
RECEIVED: 7

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington

February 3, 1958

DMEA
RECEIVED FEB 10 1958

DATE	INITIALS	CODE
2/10	C	220
11		100
"		110
2/11		800
		500

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection report, Docket No. DMEA-4712 (lead-zinc) American Smelting & Refining Co., East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was visited January 30, 1958, accompanied by R. D. Sample, geologist, U. S. Geological Survey, and T. M. Tower, mine superintendent.

The 3070 level east crosscut is in St. Regis quartzite. Rock bolting proved somewhat ineffective in the ravelly ground so the crosscut was timbered for 143 feet. Rock bolting with chain link fencing is being tried.

Rock bolts are being counted weekly at the time the crosscut advance is measured for the contract miners.

The following advance was measured since the last inspection:

Previously reported DMEA crosscut advance to survey station 1501		374.09 ft.
Sta. 1501 to Sta. 1502	N 83° 13' E	78.09
Sta. 1502 to face		91.0
		543.18 ft.

Crosscut is timbered from Sta. 1501 + 13 feet to Sta. 1501 + 156 feet or 143 feet total.

Status of the contract as of January 30, 1958 was:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 25,439.77 (thru December 1957)

	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	543.18 ft.
Diamond drilling	11,855 ft.	0
Diamond drill stations	300 ft.	0
Car siding excavations	14,800 cu. ft.	425 cu. ft.
Timbering	3,950 ft.	143 ft.
Rock bolts	4,000	526
Core boxes	290	0
Assays	4,200	0

There has been no DMEA production from this project.

John D. Bardill

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Bardill

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

DMEA
RECEIVED FEB 10 1958
DATE | INITIALS | CODE

January 31, 1958

MEMORANDUM

To: DMEA Field Team, Region I

From: R. D. Sample, Geologist, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-4712 (lead-zinc), American Smelting and Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

The above project site was visited and inspected on January 30, 1958 by John D. Bardill, Mining Engineer, U. S. Bureau of Mines, and R. D. Sample, Geologist, U. S. Geological Survey. Mr. Troy Tower, superintendent of the Page mine, was met at the mine and accompanied the examiners to the 3070 level where the DMEA east drift was inspected.

Advance of the East drift through the white quartzites of the Revett formation continues but progress has been slow for the past month due to much sloughing along the back and sides of the drift. Roof bolts were found to be insufficient in many places and the foward progress of the drift was stopped while about 128 feet of timbering was installed. Timbering is now about completed and the last two rounds in the face indicate that roof bolts may again be sufficient to hold the ground.

Mr. Tower states that about 500 tons of ore is being mined and milled per day with most of the production coming from the 2700 level. The mine employs 279 men of which almost 65 percent are employed directly or indirectly with timbering. Eighteen employees work in the mill, and the rest in mining operations. About $2\frac{1}{4}$ million feet of lumber is used in the mine in 1 year. They try to keep the mill heads at 6 percent lead and 10 percent zinc. They also figure $\frac{1}{2}$ ounces of silver for each 1 percent of lead.

Distribution:
DMEA (Orig. & 3)
USBM (2)
USBM (AD)
Docket
Sample

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED FEB 10 1958 D.M.E.A.

Month of December, 1957 Docket No. DMEA 4712 Contract No. DMA-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. c/o Box 440 Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				3/17/58	WPK	
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	2,927.46	3,999.73	6,927.19	2927.46	3999.73	6927.19
Supervision	136.85	191.35	328.20	136.85	191.35	328.20
Technical Services		420.00	420.00		420.00	420.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives	1,333.00	1,855.97	3,188.97	1333.00	1855.97	3188.97
Pipe	448.52	751.62	1,200.14	448.52	751.62	1200.14
Track	511.85	586.30	1,098.15	511.85	586.30	1098.15
Other	1,161.16	1,962.05	3,123.21	1161.16	1962.05	3123.21
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	178.40	356.78	535.18	178.40	356.78	535.18
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	241.14	162.59	403.73	241.14	162.59	403.73
Sampling and Analysis						
Payroll Taxes	64.96	127.38	192.34	64.96	127.38	192.34
Liability Insurance	106.49	165.02	271.51	106.49	165.02	271.51
Other	3,029.80	4,721.35	7,751.15	3029.80	4721.35	7751.15
(8) Contingencies (specify): Less in Excess of Maximum				150.00	36.25	[illegible]
TOTALS	10,139.63	15,300.14	25,439.77	8631.00	11674.75	20,305.75

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Jan. 22, 1958 Payee American Smelting and Refining Company
Per J. L. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person signing the company or corporate name, as well as the capacity in which he signs, must appear. For example "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4315.56

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 2/5/58 Vou. No. 2142

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /s/ John D. Bardill Title Metallurgist Date Jan. 31, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. B. Weissenborn Title Exec. Officer Date Feb. 4, 1958

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
FEB 10 1958
D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1957 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N. Y. c/o Box 440 Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting Crosscutting	Foot	8,723.68	197.4	21,727.83	455.7	47.68	12,485	40.00
Crosscutting D.D. Stations	"						300	35.00
Raising Timbering	"						3,950	10.50
Shafts Rock Bolting	Each	1,415.95	210	3,411.95	539	6.33	4,000	3.50
Winzes Car Sidings	Cu.Ft.			299.99	425	.71	14,800	.45
Drilling: Core AX	Foot							6.60
Churn BX	"						11,855	6.40
Auger Incld.	"							.40
Sampling Core Boxes	Each						200	3.40
Trenching Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS		10,139.63		25,439.77				
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		10,139.63		25,439.77				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Jan. 22, 1958 Operator American Smelting and Refining Company

Per J. L. Kiesser Title Manager

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

REMARKS:

(Instructions on reverse)

(For Government use only)

/s/ John A. Bardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
January 22, 1958

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE
PROGRESS REPORT - DECEMBER 1957

During December 1957, the East Page Drive advanced 197.4 feet for a total to date of 455.7 feet. Advance was through fine-grained massive quartzites and thin-bedded argillaceous quartzites. General trend of bedding is N. 50° W., 70° NE., and minor faulting parallels the bedding.

Plate I is a 50-scale geologic plan of the pertinent portion of the 3070 level.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

January 17, 1958

RECEIVED FEB 10 1958

DATE		CODE
2-10	C	220
11	Com	100
"		110
2/4		800
~~2/4~~	~~[illegible]~~	~~500~~

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection report, Docket No. DMEA-4712 (lead-zinc), American Smelting & Refining Company, East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was inspected January 9, 1958, accompanied by Mr. T. M. Tower, mine superintendent.

Starting point of the contract was at survey station No. 1382 + 109.9 feet on the 3070 level east drift.

The crosscut is in St. Regis quartzite and for approximately the last 100 feet or more the formation is ravelly and requires timbering. Rock bolts are ineffective because the formation sloughs away from the bolts.

DMEA work is now on a two shift per day basis, 5 days per week.

Timber was placed from Sta. 1501 + 13 feet to Sta. 1501 + 58 ft. or a total of 45 feet.

A transfer station was cut at Sta. 1496 + 70 feet and another at Sta. 1497 + 45 feet, excavating 216 cu. ft. and 209 cu. ft., respectively.

The following survey data was taken from the company's transit survey and the distances were checked and confirmed.

Sta. 1382 -	Sta. 1496	N 82° - 58' E	64.46 ft.
1496 -	1497	N 83° - 13' E	87.84 ft.
1497 -	1499	N 83° - 13' E	132.26 ft.
1499 -	1500	N 83° - 13' E	95.93 ft.
1500 -	1501	N 83° - 13' E	103.50 ft.
1501 -	face		82.5 ft.
			566.49 ft.
	Less 109.9 ft. to starting point		109.90
			456.59 ft.

Status of the contract as of January 9, 1958 was:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: 11,674.77 (thru November)

	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	456.59 ft.
Diamond drilling	11,855 ft.	0
Diamond drill stations	300 ft.	0
Car siding excavations	14,800 cu. ft.	425 cu. ft.
Timbering	3,950 ft.	45 ft.
Rock bolts	4,000	374
Core boxes	290	0
Assays	4,200	0

John D. Bardill

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Bardill

Form MF-104 (Rev.)
(April 1952)

RECEIVED JAN 9 D.M.E.A.

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1957 Docket No. DMEA 4712 Contract No. IIM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. c/o Box 440, Wallace, Ida.
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				1/14/58		
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	2,524.28	1,475.45	3,999.73	2524.28	1475.45	3999.73
Supervision	121.63	69.72	191.35	121.63	69.72	191.35
Technical Services	375.00	45.00	420.00	375.00	45.00	420.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives	1,325.83	530.14	1,855.97	1325.83	530.14	1855.97
Pipe	496.81	254.81	751.62	496.81	254.81	751.62
Track	316.26	270.04	586.30	316.26	270.04	586.30
Other	1,099.52	862.53	1,962.05	1099.52	862.53	1962.05
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	187.03	169.75	356.78	187.03	169.75	356.78
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	103.72	58.87	162.59	103.72	58.87	162.59
Sampling and Analysis	-	-	-			
Payroll Taxes	81.00	46.38	127.38	81.00	46.38	127.38
Liability Insurance	108.74	56.28	165.02	108.74	56.28	165.02
Other	3,238.58	1,482.77	4,721.35	3238.58	1482.77	4721.35
(8) Contingencies (specify): Less in Expense of Moratorium						
TOTALS	9,978.40	5,321.74	15,300.14	7757.58	3917.20	11,674.78

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Dec. 19, 1957 *Payee American Smelting and Refining Company

Per J. L. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3878.78

Signature Dorothy F. Lang
(Authorized Certifying Officer)

Date 1/7/58 Vou. No. 2093

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1134 in accordance with the terms of the contract.

Signature /s/ John T. Bardill Title Metallurgist Date Dec. 23, 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Dec. 30, 1957

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

RECEIVED JAN 9 1958 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 195 7 Docket No. DMEA 4712 Contract No. DEM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. & Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting Crosscutting	Foot	8,714.33	176.1	13,004.15	258.3	50.35	12,485	40.00
~~Crosscutting~~ DD Stations	"						300	35.00
~~Raising~~ Timbering	"						3,950	10.50
~~Shafts~~ Rock Bolting	Each	1,122.45	177	1,996.00	329	6.07	4,000	3.50
~~Winzes~~ Car Sidings	Cu.Ft.	141.62	209	299.99	425	.71	14,800	.45
Drilling: ~~Core~~ AX	Foot							6.60
~~Churn~~ EX	"						11,855	6.40
~~Auger~~ Incid.	"							.40
~~Stoping~~ Core Boxes	Each						290	3.40
~~Trenching~~ Assaying	Det.						4,200	1.00
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		9,978.40		15,300.14				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		9,978.40		15,300.14				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Dec. 19, 1957 Operator American Smelting and Refining Company

Per J. L. Kieser Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John A. Pardill

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
December 18, 1957

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE

During November the East Page Drive advanced 176.1 feet for a total to date of 258.3 feet. Advance was through light gray Revett quartzite, but near the month-end face the formation changed to hard, thin-bedded, light gray to buff, argillaceous quartzite. General trend of bedding is N. 50° W., 65° NE. At about 95 feet from the face, there was exposed a strong fault striking N. 60° W. and dipping 85° SW. The fault offsets the bedding, the hanging wall to the southeast.

Plate I is a 50-scale geologic plan of the pertinent portion of the 3070 level.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

SNK:ajm

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 16 1957

DATE	INITIALS	CODE
12/16	C	220
16	Com	100
[redacted]	[redacted]	[redacted]
		500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

November 27, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: D. R. MacLaren and R. D. Sample, Geologists, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-4712 (lead-zinc), American Smelting and Refining Co., East Page mine, Shoshone County, Idaho, Contract No. Idm-E1134

The above project site was visited and inspected on November 21, 1957. At the mine office the examiners met Mr. Troy Tower, superintendent of Page mine; Mr. Caroll Ward, assistant superintendent; Mr. Dick James, mine foreman; Mr. L. S. Hansen, safety engineer; and Dr. Tomio Horibe, Professor of mining, Tohoku University, Sendai, Japan. Mr. Horibe is on a tour of inspection of mining districts in the western United States.

Mr. Tower accompanied the examiners down the incline shaft from the surface to the 3070 level where the DMEA east drift begins. This drift had already been started by the company about 200 feet from the 3070 level station, but will continue eastward under DMEA contract for another 5,720 feet. A total of 149.5 feet of the DMEA contract east drifting was completed as measured on November 16, 1957. The drift bears approximately N. 83° 15' E. and is driven through the white quartzites of the Revett formation of the Precambrian Belt Series.

The inclined shaft has been deepened to the 3400 level. A short visit was made to this level where a station and ore pocket is being established.

Distribution:
DMEA (Orig. & 3)
USBM (2)
USBM (AD)
Docket
Sample

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1957 Docket No. DMEA 4712 Contract No. IDM-E 1134
Operator's Name American Smelting and Refining Company Minerals Lead and Zinc
Address 120 Broadway, New York 5, N.Y. c/o Box 440, Wallace, Idaho
Contract Amount, $ 660,206 Government Participation: 50 % Amount, $ 330,103

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				12/23/57 OWPK		[redacted]
Bulldozing						Betty
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	1,475.45		1,475.45	1475.45		1475.45
Supervision	69.72		69.72	69.72		69.72
Technical Services	45.00		45.00	45.00		45.00
(3) Operating Mat'ls. and Supplies:						
Timber	-		-			
Explosives	530.14		530.14	530.14		530.14
Pipe	254.81		254.81	254.81		254.81
Track	270.04		270.04	270.04		270.04
Other	862.53		862.53	862.53		862.53
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation	169.75		169.75	169.75		169.75
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	58.87		58.87	58.87		58.87
Sampling and Analysis	-		-			
Payroll Taxes	46.38		46.38	46.38		46.38
Liability Insurance	56.28		56.28	56.28		56.28
Other	1,482.77		1,482.77	1482.77		1482.77
(8) Contingencies (specify):						
Less in Excess of Mot.				[illegible]	-	[illegible]
TOTALS	5,321.74		5,321.74	3917.20		3917.20

I certify that the above bill is correct and just and that payment therefor has not been received.

Date November 26, 1957 Payee American Smelting and Refining Company

Per J. L. Kieser Title Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 1958.60

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 12/11/57 Vou. No. 2089

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 61134 in accordance with the terms of the contract.

Signature /s/ John A. Barsell Title Metallurgist Date Dec. 2, 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Dec. 5, 1957

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MM-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 7 4712 IDM-E 1134

Operator's Name American Smelting and Refining Company — Contract No. Lead and Zinc

Address 120 Broadway, New York 5, N. Y. — Minerals

% Box 440, Wallace, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
~~Crosscutting~~	Foot	4,289.82	82.2	4,289.82	82.2	52.19	12,485	40.00
~~Drifting~~ D.D.Stations	"						300	35.00
~~Crosscutting~~ Timbering	"						3,950	10.50
~~Raising~~ Rock Bolting	Each	873.55	152	873.55	152	5.75	4,000	3.50
~~Shafts~~ Car Sidings	Cu.Ft.	158.37	216.0	158.37	216.0	.73	14,800	.45
Winzes EX	Foot							6.60
Drilling: ~~Core~~ EX	"						11,855	6.40
~~Churn~~ Incid.	"							.40
~~Cover~~ Boxes	Each						290	3.40
~~Stripping~~ Assaying	Det.						4,200	1.00
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		5,321.74		5,321.74				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		5,321.74		5,321.74				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date November 26,1957 Operator American Smelting and Refining Company

Per J. C. Kissor Title Manager

REMARKS:

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

/s/ John D. Bordell

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Wallace, Idaho
November 27, 1957

MEMORANDUM FOR MR. J. C. KIEFFER

PAGE MINE
3070 EAST PAGE DRIVE

During October, the drive advanced 82.2 feet through medium-bedded light gray Revett quartzite, containing disseminated crystals of pyrite. The general strike of the bedding is NW-SE, and the dip is 60° to 87° NE. There are numerous minor faults which are sub-parallel to the bedding.

Plate I is a 50-scale geologic plan of the pertinent portion of the 3070 level.

Respectfully submitted,

Original Signed by
S. N. KESTEN

S. NORMAN KESTEN

SNK:ajm

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 14 1957

DATE	INITIALS	CODE
11/14	gb	220
14	Cbm	100
~~11/15~~	~~Klug~~	~~500~~

October 14, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection report, Docket No. DMEA-4712 (lead-zinc) American Smelting & Refining Co., East Page Mine, Shoshone County, Idaho, Contract No. Idm-E1134

This project was inspected October 9, accompanied by Mr. T. M. Tower, mine superintendent, and Mr. Norman Keston, assistant chief geologist.

DMEA project east drift on the 3070 level was started October 3, 1957 at Survey Station 1496 + 45.4 feet. The drift is being driven N. 83° 15' E.

The face of the drift was at Sta. 1496 + 61; an advance of about 16 feet since the start of the contract.

Two accidents in the drift disrupted progress to some extent. On October 7 the nose of one of the miners was severed by a piece of rock when he was drilling overhead for a rock bolt. The next day another miner suffered a bad foot injury when the jackleg of the drill slipped from a block, implanting the stinger in his foot.

DMEA work is on a one-shift per day basis and according to Mr. Tower will remain so for about 90 days. The 3400 level shaft station and sump are being cut and muck is being transferred at the 3070 level station with the result it is badly congested. Supplies and mine personnel only are hoisted on the day shift.

Mr. C. A. Turner, DMEA auditor, accompanied me to the mine and he conferred with Mr. W. J. Murphy, chief accountant, to acquaint him with the procedure for submitting reports and the manner in which records should be kept.

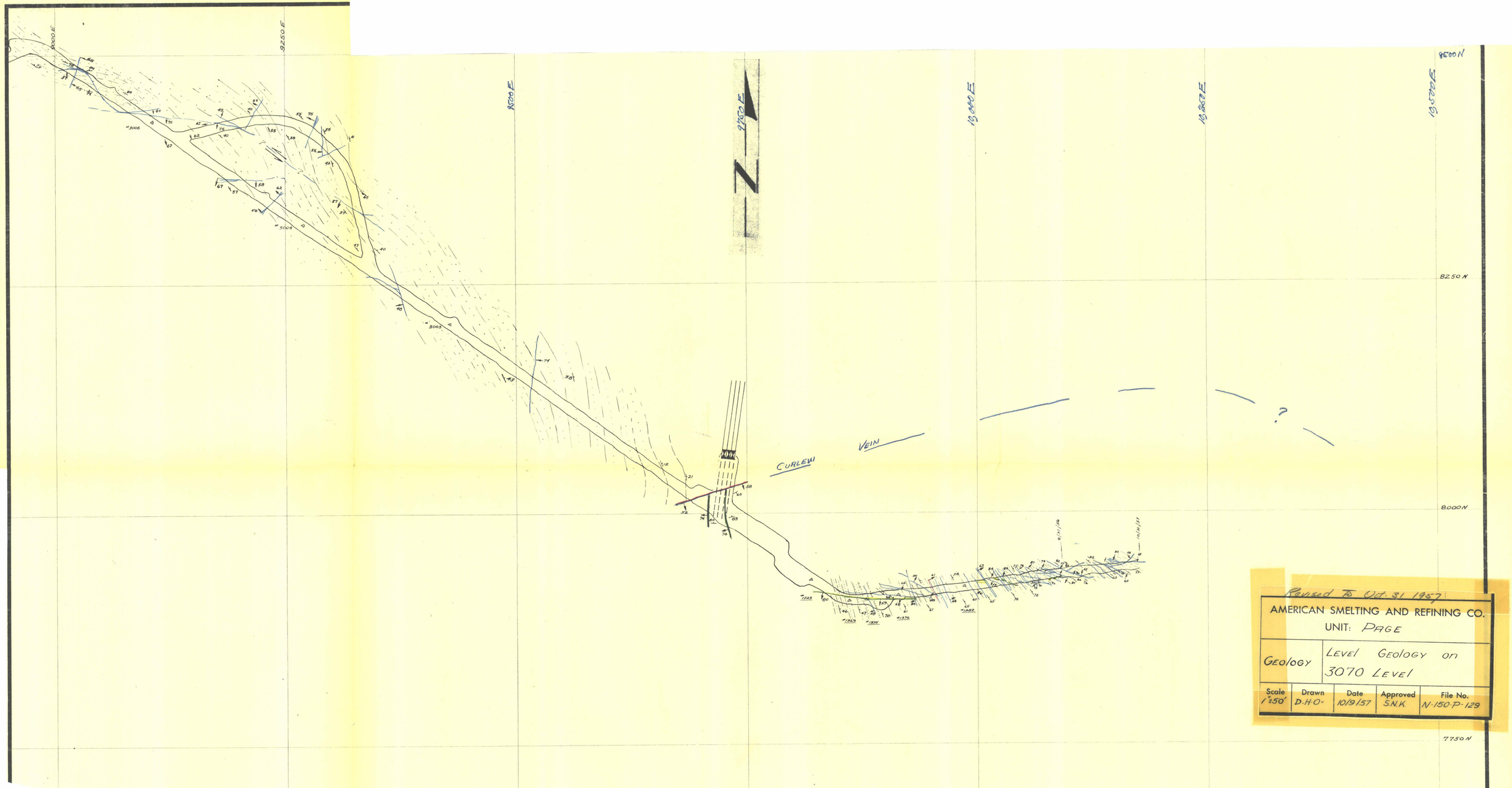
The status of the contract as of October 9, 1957 was:

Date of contract: September 18, 1957
Termination date: September 1, 1962
Amount of contract: $660,206.00
Amount spent: none

	Authorized	Completed
Drifting and/or crosscutting	12,485 ft.	16 ft.
Diamond drilling	11,855 ft.	
Diamond drill stations	300 ft.	
Car sidings excavations	14,800 cu.ft.	
Rock bolts	4,000	
Timbering	3,950 ft.	
Core boxes	290	
Assays	4,200	

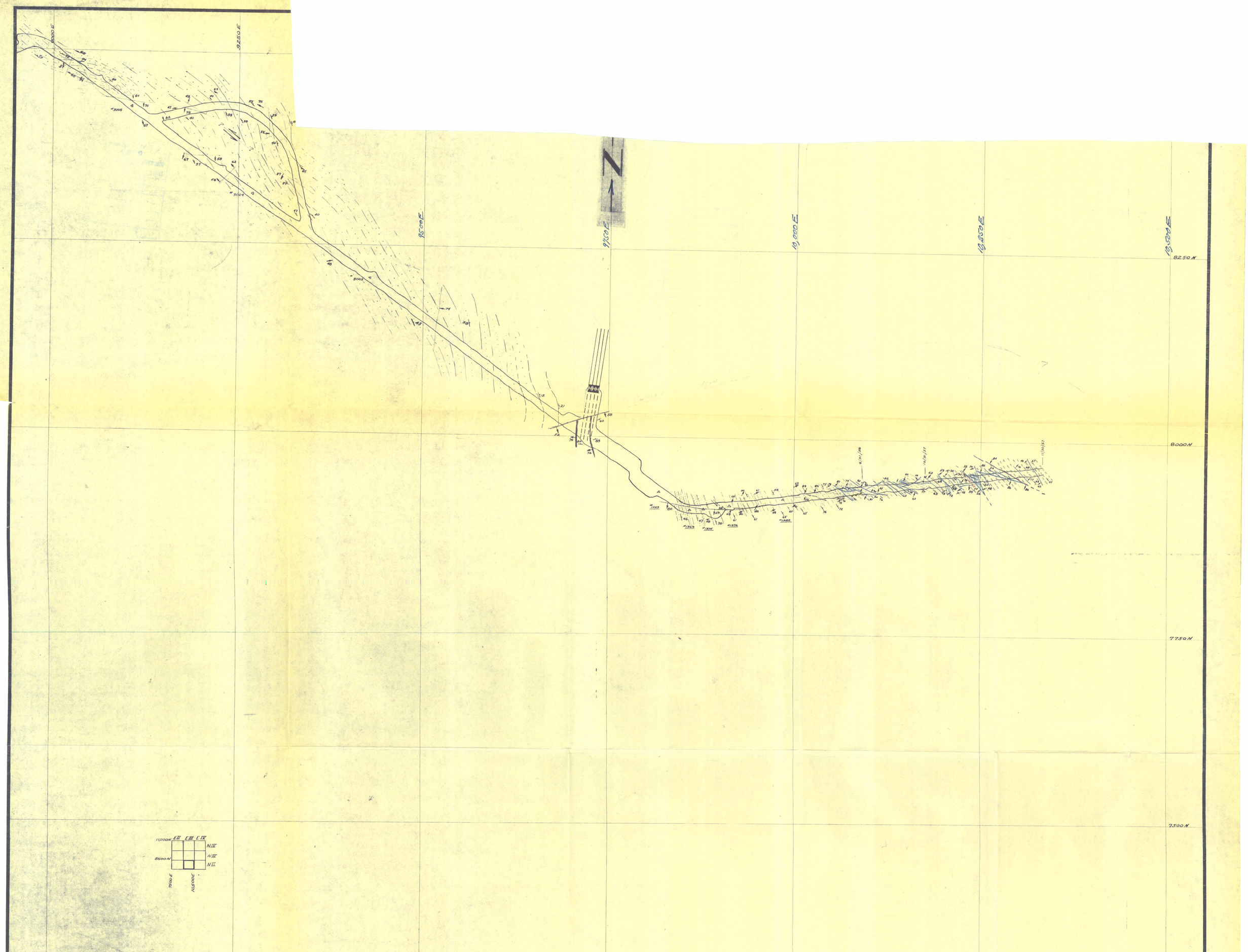
John D. Bardill

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Bardill



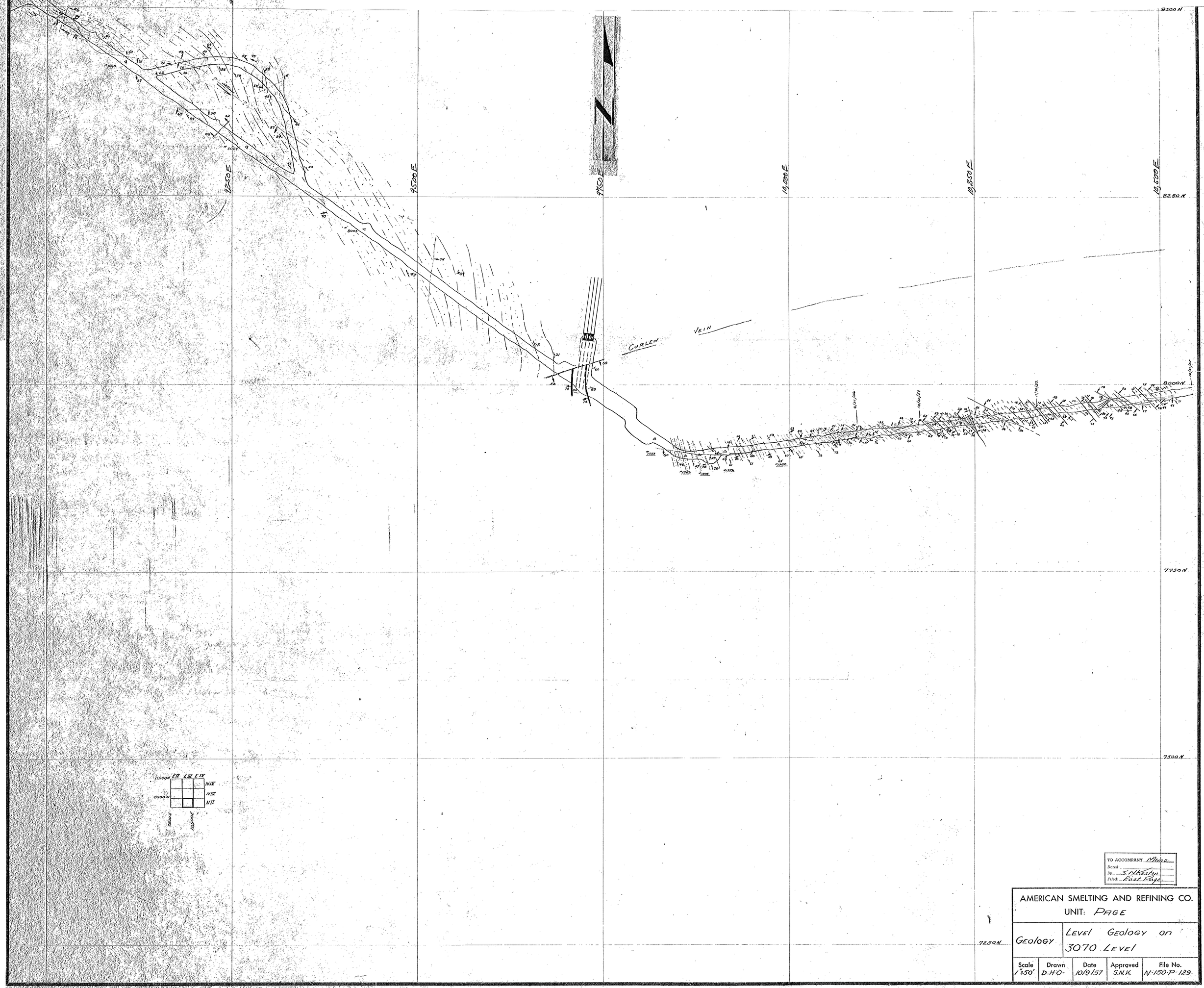
Revised To Oct. 31 1957

AMERICAN SMELTING AND REFINING CO.				
UNIT: PAGE				
GEOLOGY	LEVEL GEOLOGY on 3070 LEVEL			
Scale 1" = 50'	Drawn D.H.O.	Date 10/9/57	Approved S.N.K.	File No. N-150-P-129



AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
Geology	Level Geology on 3070 Level			
Scale 1"=50'	Drawn D.H.O.	Date 10/9/57	Approved S.N.K.	File No. N-150-P-129

PLATE I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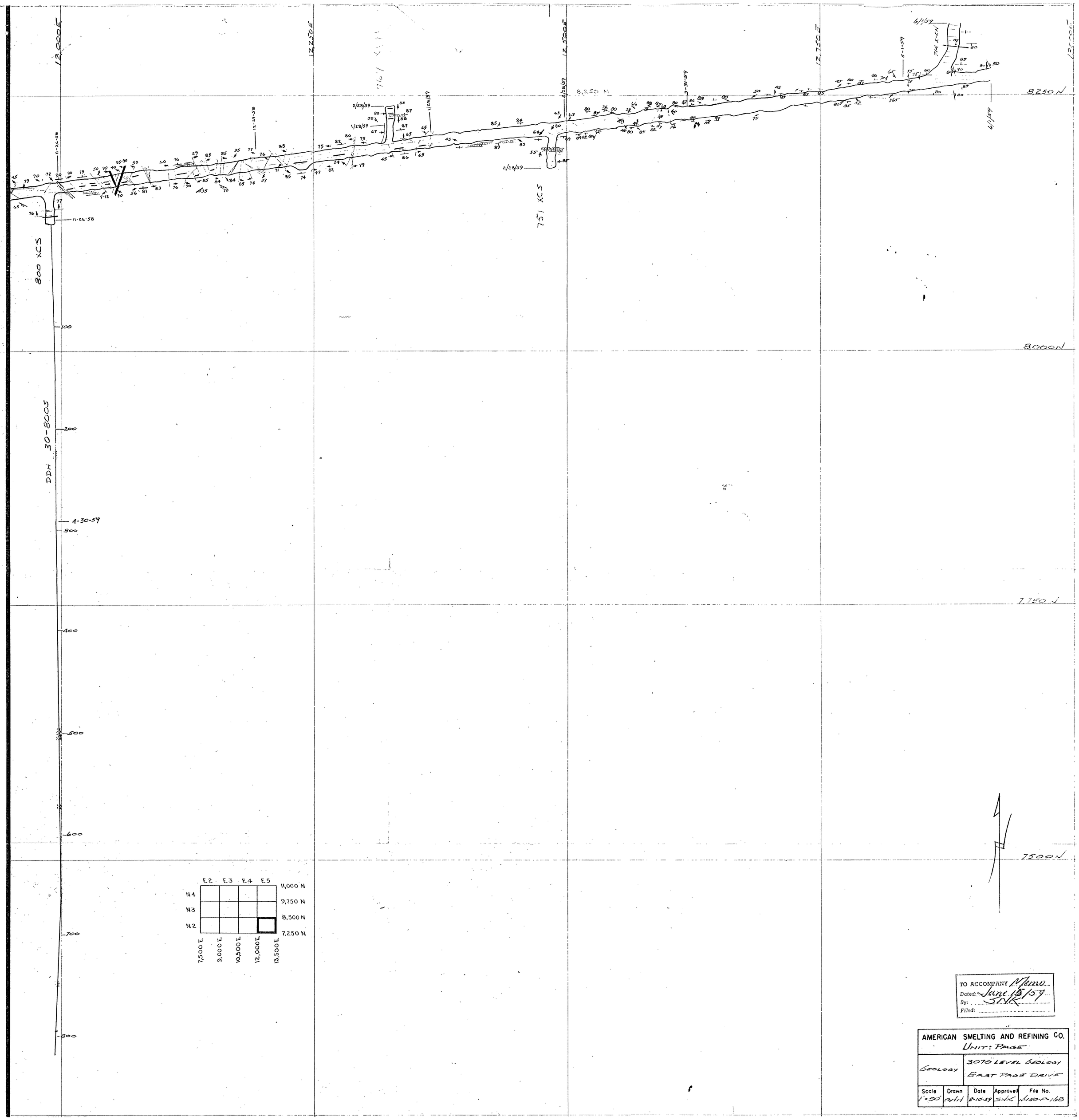
8000 N
7750 N
7500 N
7250 N
9250 E
9500 E
9750 E
10,000 E
10,250 E
10,500 E
CURLEY
VEIN
TO ACCOMPANY Mine
Dated:
By: S.N.Keslyn
Filed: East Page
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
LEVEL GEOLOGY ON 3070 LEVEL
Scale 1"=50'
Drawn D.H.O.
Date 10/9/57
Approved S.N.K.
File No. N-150-P-129.

PLATE I



TO ACCOMPANY Memo
Dated: June 15/59
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070 LEVEL GEOLOGY EAST PAGE DRIVE			
Scale	Drawn	Date	Approved	File No.
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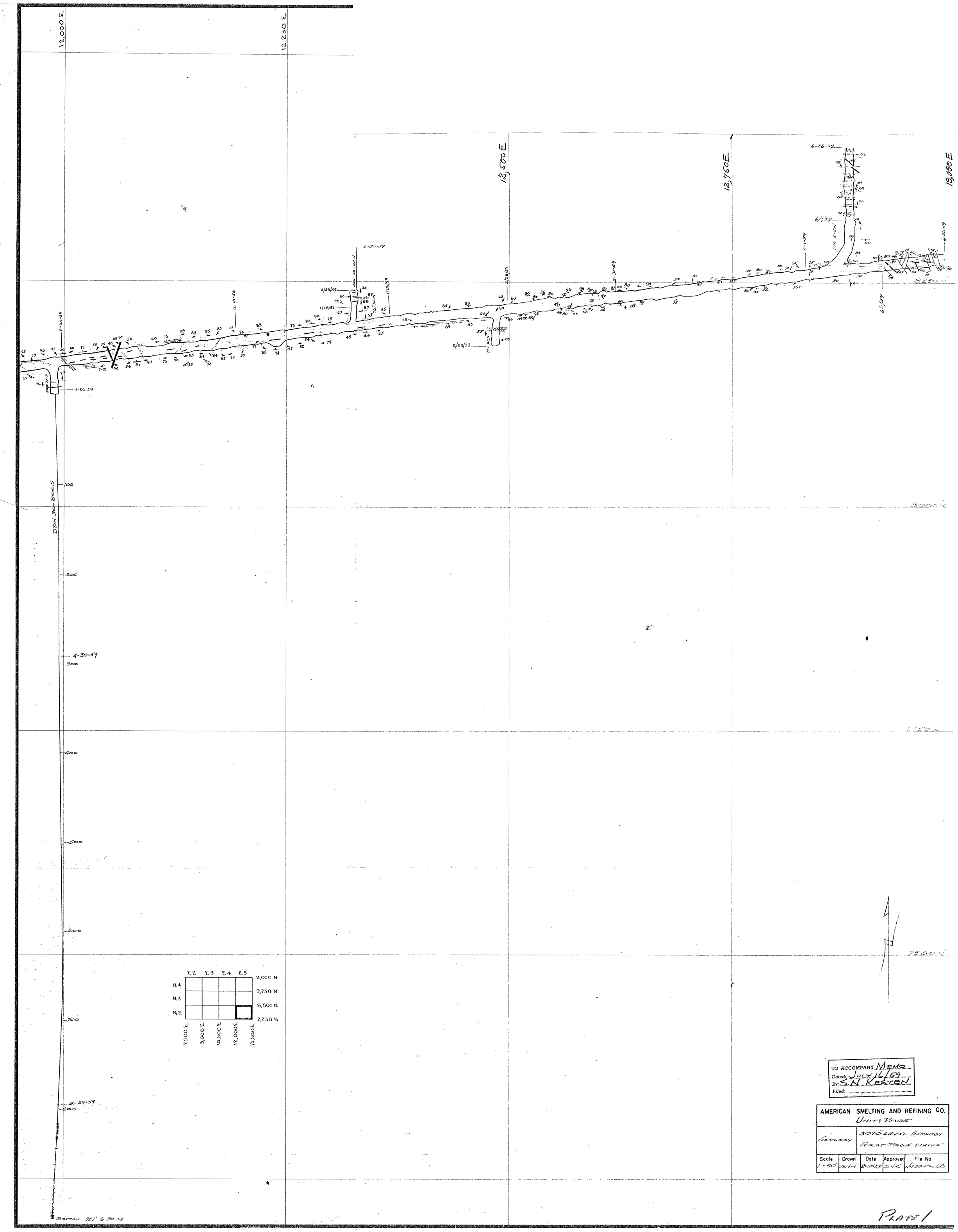
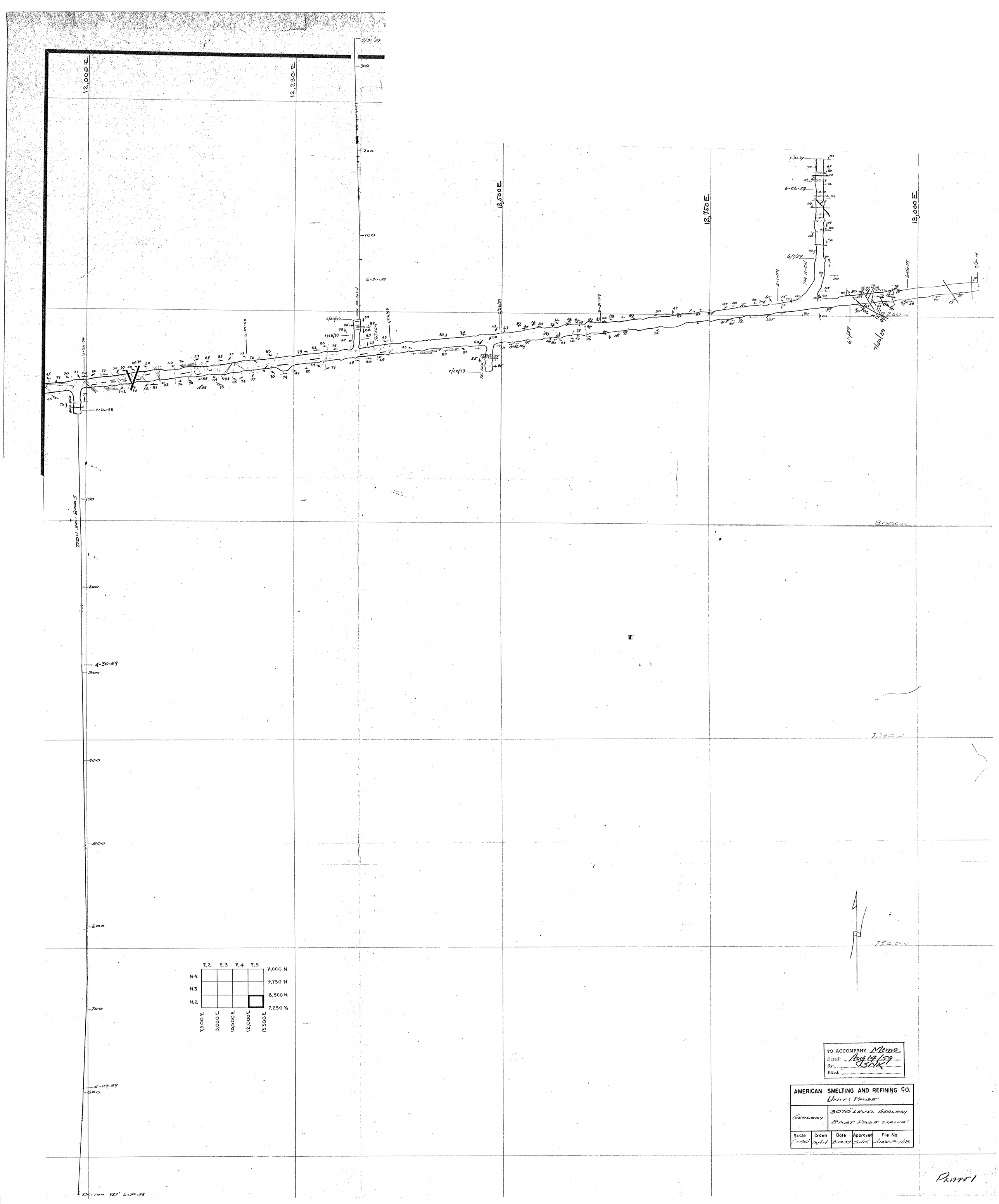


TO ACCOMPANY MEMO
Dated: JULY 16 59
By: S.N. KESTEN
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
GEOLOGY	3070' LEVEL GEOLOGY EAST PAGE DRIVE			
Scale 1"=50'	Drawn G.H.	Date 2-10-59	Approved S.N.K.	File No. W150-P-68

PLATE 1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6-26-59
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5-29-59
11-26-58
12-29-58
2/28/59
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3-31-59
7-30-59
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Bottom 927' 6-30-59
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N4 N3 N2
11,000 N
9,750 N
8,500 N
7,250 N
7,500 E
9,000 E
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12,000 E
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TO ACCOMPANY Memo
Dated: Aug. 19, 59
By: GNK
Filed:
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL GEOLOGY
EAST PAGE DRIVE
Scale 1" = 50'
Drawn
Date 8-10-59
Approved GNK
File No 1150-P-168

TO ACCOMPANY Memo
Dated: Sept. 15 1959
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
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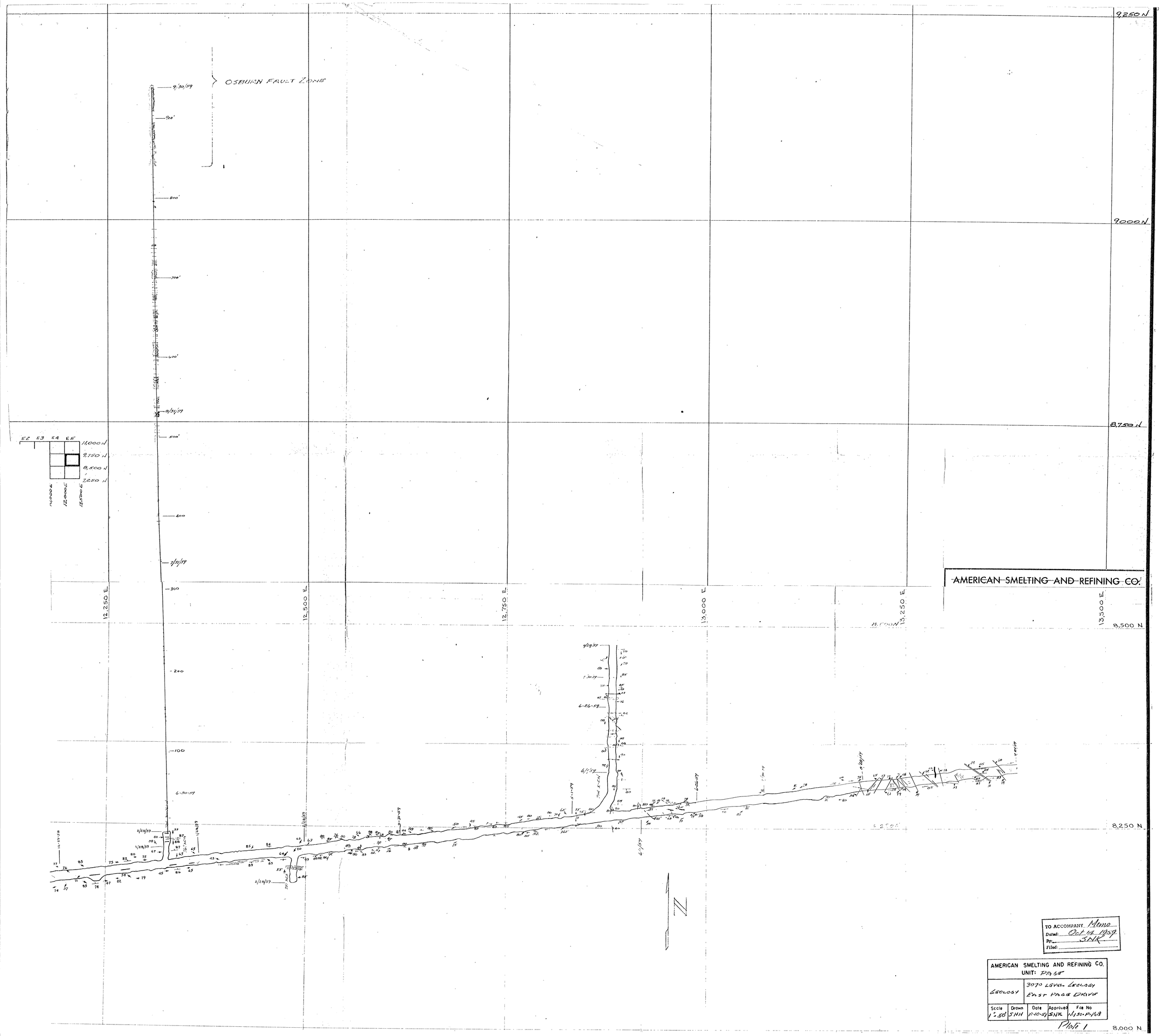
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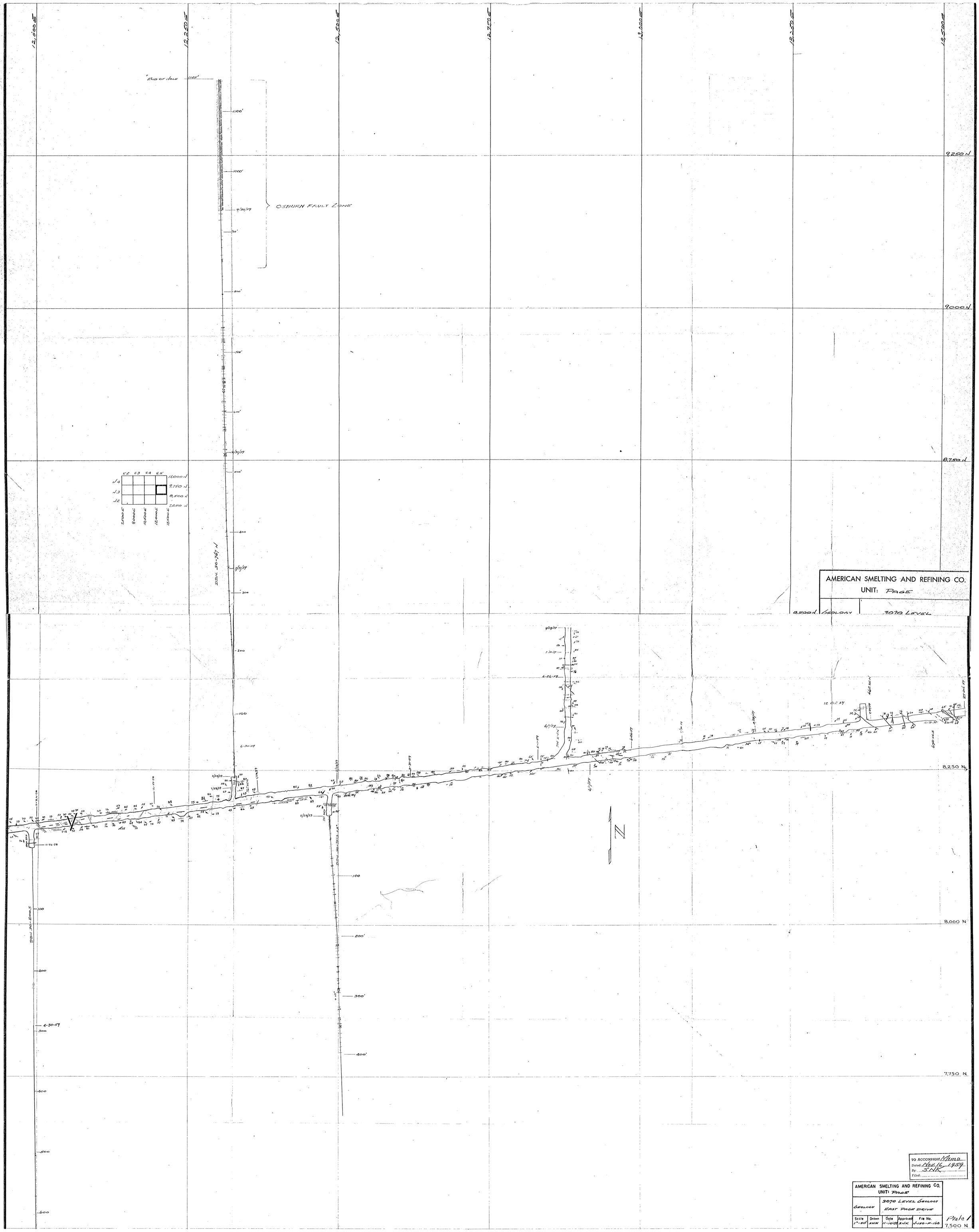
AMERICAN SMELTING AND REFINING CO.
TO ACCOMPANY Memo
Dated: Oct 14 1959
By: SNK
Filed:
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL GEOLOGY
EAST PAGE DRIVE
Scale 1" = 50'
Drawn SHH
Date 12-10-59
Approved SNK
File No
Plate 1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600'
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7/31/59
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OSBURN FAULT ZONE
N 15°-30° W
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4-30-59
DDH 30-7515
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11,000 N
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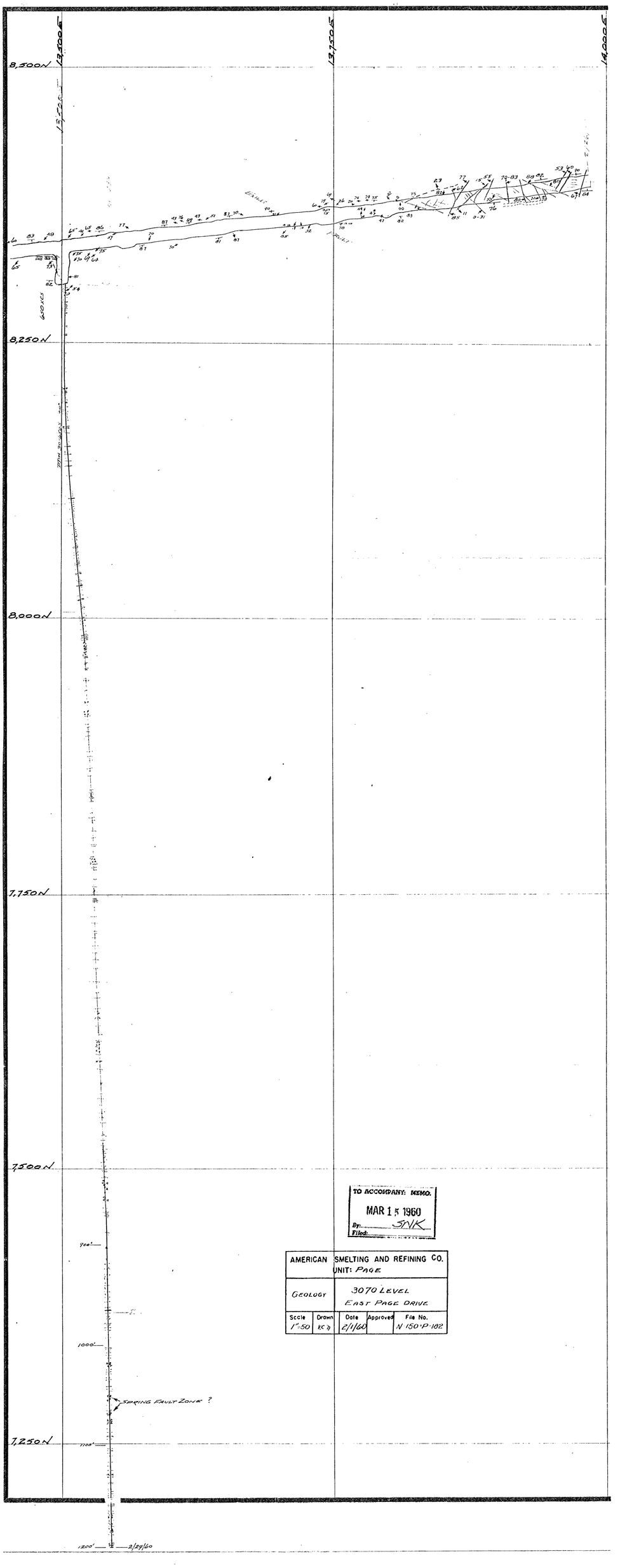
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL
TO ACCOMPANY Memo
Dated: Nov. 16, 1959
By: SNK
Filed:
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL GEOLOGY
EAST PAGE DRIVE
Scale 1" = 50'
Drawn JHH
Date 11-10-59
Approved SNK
File No. N-150-P-168
Plate 1



TO ACCOMPANY: MEMO.
MAR 15 1960
By: SNK
Filed:

AMERICAN SMELTING AND REFINING CO. UNIT: PAGE				
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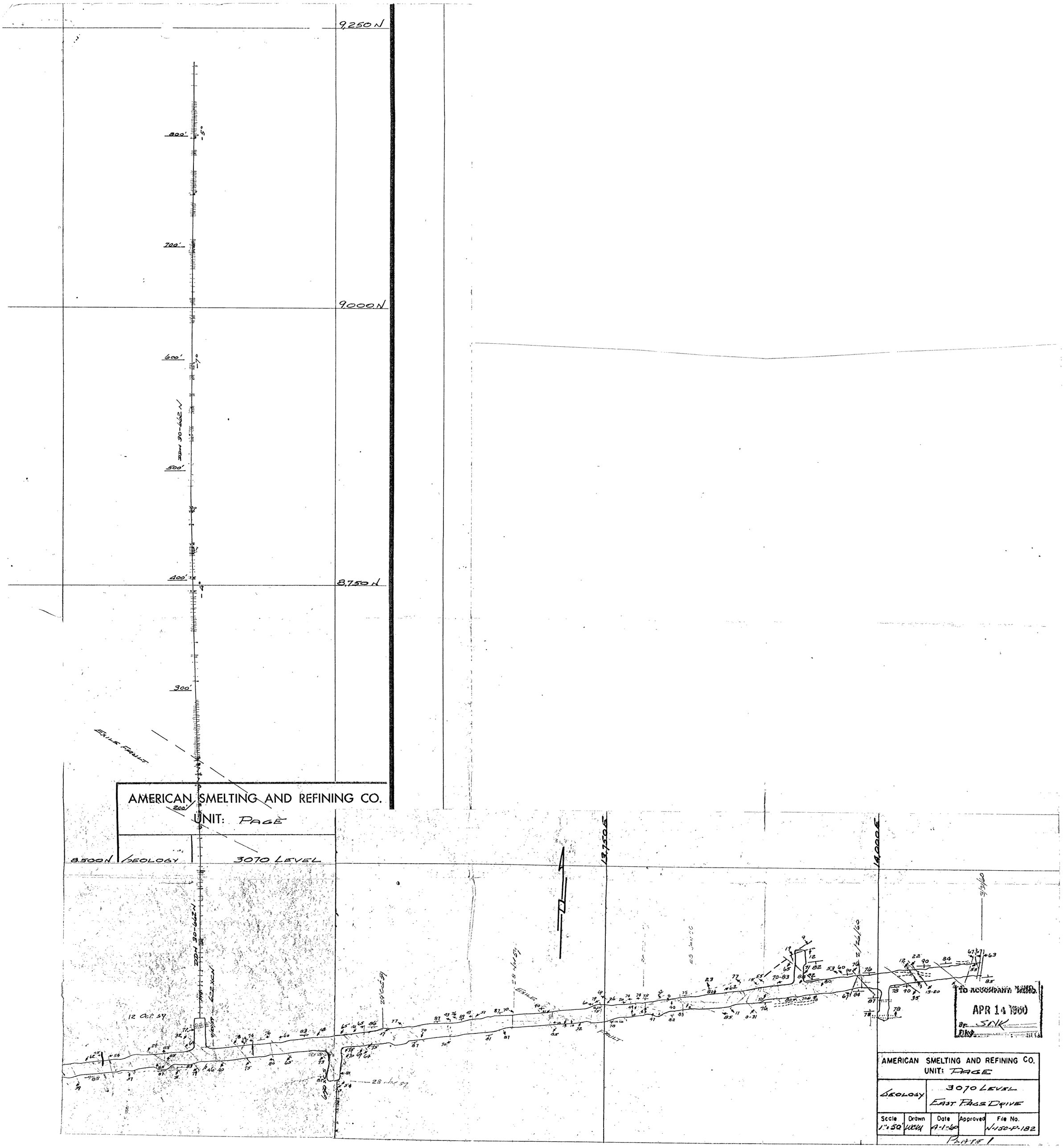
Scale 1"=50	Drawn KC	Date 2/1/60	Approved	File No. N 150-P-182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9000 N
8,750 N
800'
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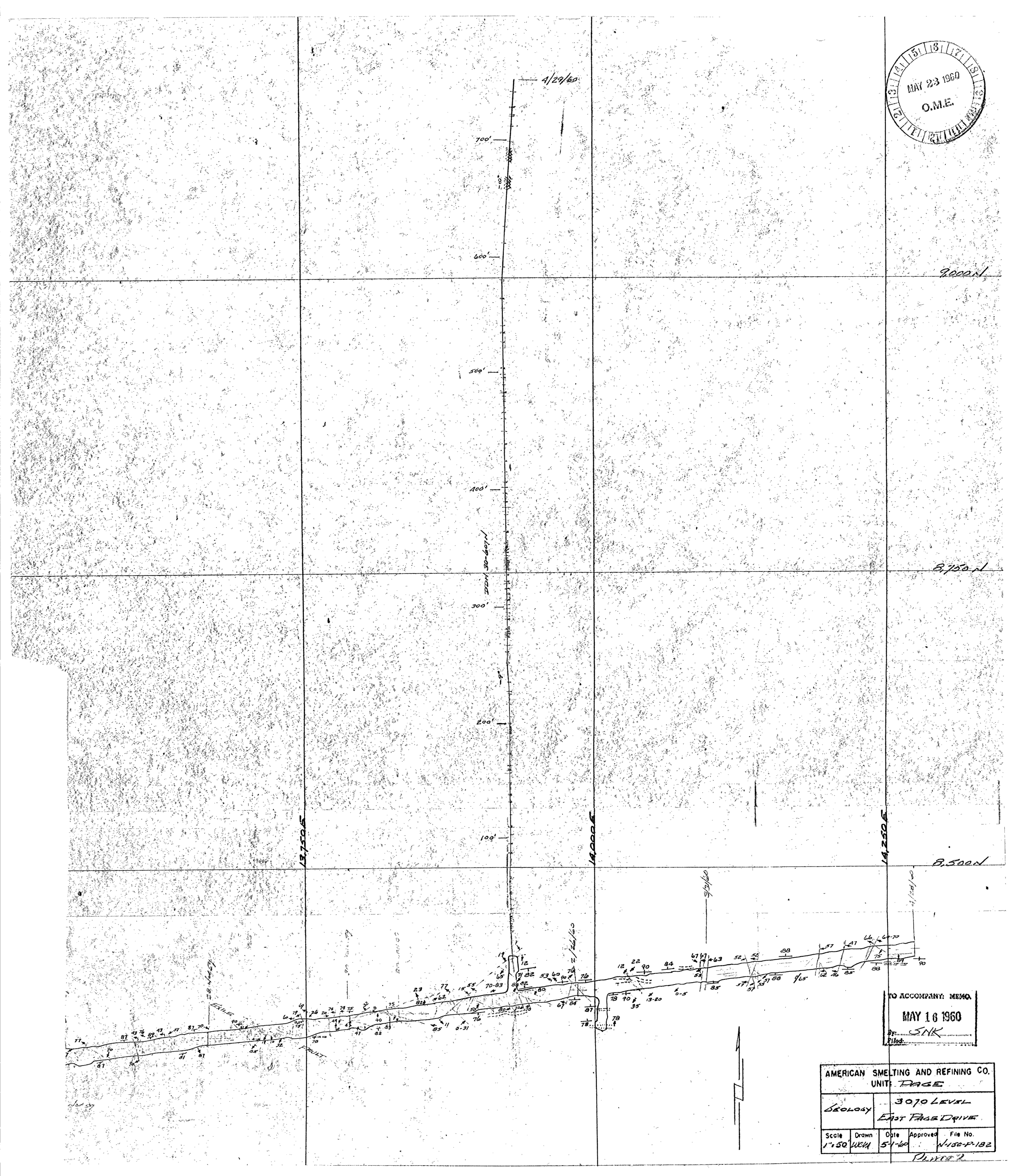
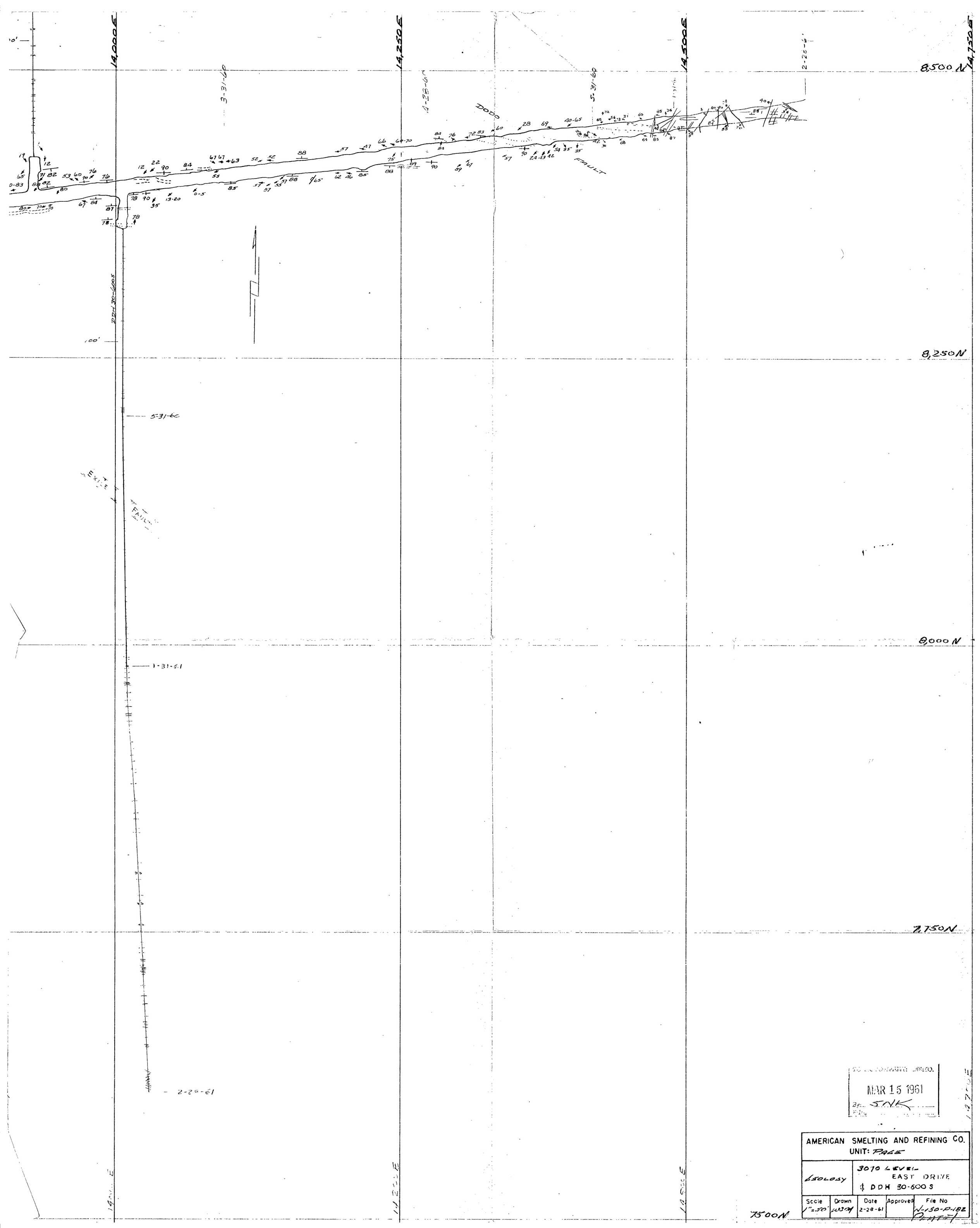
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
8,500 N
GEOLOGY
3070 LEVEL
13,750 E
14,000 E
12 Oct. 59
24 Oct. 59
28 Jan. 60
EXILE
FAULT
TO ACCOUNTING DEPT.
APR 14 1960
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL
EAST PAGE DRIVE
Scale 1" = 50'
Drawn
Date 4-1-60
Approved
File No. N-150-P-182
PLATE 1


4/29/60
700'
600'
500'
400'
300'
200'
100'
DDH 30-607N
9000N
8,750N
8,500N
13,750E
14,000E
14,250E
EXILE
FAULT
3/31/60
4/12/60
MAY 23 1960
O.M.E.
TO ACCOMPANY: MEMO.
MAY 16 1960
By: SNK
Filed:
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL
EAST PAGE DRIVE
Scale 1" = 50'
Drawn WCM
Date 5-1-60
Approved
File No. N-152-P-182
PLATE 2


14,000E
14,250E
14,500E
14,750E
8500N
8,250N
8,000N
7,750N
7500N
DODO
FAULT
DDH 30-600S
3-31-60
1-28-60
5-31-60
2-28-61
1-31-61
100'
AMERICAN SMELTING AND REFINING CO.
UNIT: PAGE
GEOLOGY
3070 LEVEL
EAST DRIVE
℄ DDH 30-600 S
Scale 1"=50'
Drawn
Date 2-28-61
Approved
File No W-150-P-182
MAR 15 1961