IN REPLY REFER TO:
Office of Minerals Exploration

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

AUG 21 1968

Grandview Mines, Inc.
309 Radio Central Building
Spokane, Washington 99204

Re: DMEA-325 (Zinc)
Grandview Mines, Inc.
Scandia Mine
Stevens County, Washington
Second Amended Contract Idm-E60

OFFICIAL COPY
O. M. E.
RECEIVED
AUG 29 1968
INITIALS CODE
220

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

From December 15, 1967, to August 15, 1968,

1. ~~Since~~ , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes [ ] No [X]

During this period, (a) was the December 1, 1955, Option Agreement with Theodore, John, Donald, and Effie Nasburg, and Raleigh Hallenius covering the land in the contract in full force and effect? If not give details. Yes /X/ No /__/

(b) Was the annual assessment work done on the unpatented claims? If not, please give details. Yes /X/ No /__/

2. ~~Since~~ During the same period, has there been any production from the land subject to the contract? Yes [ ] No [X]

A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes [ ] No [ ]

If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name GRANDVIEW MINES

Address 309 Radio Central Bldg., Spokane, Washington 99204

Title By Karl W. Jasper, President

Date August 27, 1968

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/21/68		110
		220

AUG 21 1968

Memorandum

To: Field Officer, Region I

From: Chief, Office of Minerals Exploration

Subject: DMEA-325 (Zinc)
Grandview Mines, Inc.
Scandia Mine
Stevens County, Washington
Second Amended Contract Idm-260

The expiration date of the royalty repayment period of the subject contract is August 15, 1968. Please check with the U. S. Bureau of Mines on possible production from the property from May 3, 1962, until the above date, and advise.

FRANK E. JOHNSON

Frank E. Johnson

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
130 (2)

GLAult/a 8-21-68

IN REPLY REFER TO:
Office of Minerals Exploration

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

December 8, 1967

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: DMEA-325 (Zinc)
Grandview Mines, Inc.
Scandia Mine
Stevens County, Washington
Second Amended Contract Idm-E60

Grandview Mines, Inc.
310 Radio Central Building
Spokane, Washington 99204

OFFICIAL COPY
O. M. E.
RECEIVED
DEC 19 1967

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

Frank E. Johnson
Office of
Minerals Exploration

INSTRUCTIONS TO DELIVERING EMPLOYEE
☐ Show to whom and date delivered ☐ Show to whom, date, and address where delivered ☐ Deliver ONLY to addressee
(Additional charges required for these services)

RECEIPT
Received the numbered article described below.

REGISTERED NO.
CERTIFIED NO. 133756
INSURED NO.
SIGNATURE OR NAME OF ADDRESSEE (Must always be filled in)
SIGNATURE OF ADDRESSEE'S AGENT, IF ANY
DATE DELIVERED DEC 11 1967
SHOW WHERE DELIVERED (only if requested)

055—16—71548-9 GPO

Copy to R-I

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since February 1966 , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes [ ] No [X]

   Is the December 1, 1955, Option Agreement with Theofore, John, Donald, and Effie Nasburg and Raleigh Hallenius covering the land in the contract still in full force and effect? If not, give details. Yes/ X /No/ /

   Has the annual assessment work been done to date on the unpatented claims? If not, please give details. Yes/ X /No/ /

2. Since February 1966 , has there been any production from the land subject to the contract? Yes [ ] No [X]

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes [ ] No [X]

   If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name KARL W. JASPER Title PRESIDENT

Address 309 RADIO CENTRAL BLDG. Date 12/15/67

OFFICIAL COPY
O. M. No.
RECEIVED
FEB 28 1966
MINERALS COPY

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

February 17, 1966

Re: DMEA-325 (Zinc)
Grandview Mines, Inc.
Scandia Mine
Stevens County, Washington
Second Amended Contract Idm-E60

Grandview Mines, Inc.
310 Radio Central Bldg.
Spokane, Washington 99204

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

Frank E. Johnson

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

DMEA-325X
Idm-E60

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since August 1964, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes [ ] No [x]

   Is the December 1, 1955, Option Agreement with Theodore, John, Donald, and Effie Nasburg and Raleigh Hallenius covering the land in the contract still in full force and effect? If not, give details. Yes /x/ No /__/

   Has the annual assessment work been done to date on the unpatented claims? If not, please give details. Yes /x/ No /__/

2. Since August 1964, has there been any production from the land subject to the contract? Yes [ ] No [x]

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes [ ] No [ ]

   If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Eskil Anderson Title Grandview Mines, Inc.

Address 399 Radio Central Bldg. Spokane, Wash. 99204 Date 2/22/66

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

August 3, 1964

Re: DMEA-325 (Zinc)
Grandview Mines, Inc.
Scandia Mine
Stevens County, Utah
Amended Contract Idm-E60

Second

Grandview Mines, Inc.
310 Radio Central Bldg.
Spokane, Washington, 99204

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 10 1964

DATE	INITIALS	CODE
8/10		800
		100
8/10		110
8/11		120
		120
		220

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **September 1963**, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☒ No ☐

   Is the December 1, 1955, Option Agreement with Theodore, John, Donald, and Effie Nasburg and Raleigh Hallenius covering the land in the contract still in full force?

2. Since **September 1963**, has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☒

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Kalle Jasper Title President

Address 310 Radio Central Bldg Date 8/7/84

4511

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

August 20, 1963

Official ~~EXTRA~~ COPY
O. M. E
RECEIVED AUG 26 1963
INITIALS

DATE		CODE
	DMEA-325 (Zinc)	800
	Grandview Mines, Inc.	
	Scandia Mine	8500
	Stevens County, Utah	
	Amended Contract Idm-E60	
		210

Re:

Grandview Mines, Inc.
310 Radio Central Bldg.
Spokane, Washington 99204

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **April 9, 1962**, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since **April 9, 1962**, has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☒

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name KARL W. JASPER Title PRESIDENT

Address 309 Radio Central Bldg., Date 8/23/63

SPOKANE, WASHINGTON 99204

4511

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

OFFICIAL FILE COPY
O. M. E
RECEIVED APR 13 1962

4/13 8.00
4/13 100
4/13 110
500
220

APR 4 1962

Re: DMEA-325 (Zinc)
Grandview Mines, Inc.
Scandia Mine
Stevens County, Utah
Amended Contract Idm-E60

Grandview Mines, Incorporated
310 Radio Central Building
Spokane, Washington

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

Willis R. Griswold

Willis R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since September 9, 1959 , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since September 9, 1959 , has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name KARL W. JASPER Title PRESIDENT

Address 310 RADIO CENTRAL BLDG Date 4/9/62

4511

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

1201 N. Division St.
Spokane 2, Washington

October 27, 1958

RECEIVED NOV 18 1958

DATE	INITIALS	CODE
11/18	H. J.	225
4		100
6		110
11/18		800
11/19		500

MEMORANDUM

To: OME Field Team, Region I

From: E. G. Erickson, Mining Engineer, U. S. ~~Bureau of Mines~~

Subject: Final inspection report, Docket No. DMEA-325 (zinc), Grandview Mines, Inc., Scandia Mine, Stevens County, Washington, Second Amended Contract No. Idm-E60

A final inspection of the property was made on October 3, 1958, by Howard F. Albee, Geologist, U. S. Geological Survey. His report, dated October 8, verifies that all of the diamond drilling allowed by the contract has been completed.

Drill Hole Data

Hole No.	Total depth	Inclination
5	206'	- 43°
6	380	- 43°
7	371	- 45°
8	420	- 51°
9	364	- 41°
10	236	- 33°
11	216	- 28½°
12	290	- 30°
Total	2483 ft. *	

*The Operator did 258 feet of drilling on his own account to complete hole No. 12.

Work units authorized and approved under the contract are:

Stage III (fixed costs)	Unit Cost	Authorized	Approved
Core drilling	$6.96/ft.	2,225 ft.	2,225 ft.
Assay determinations	1.00/ea.	160	160
Sample sacks	0.35/ea.	70	70

Work under Stages I and II has been verified by a Report of Review by C. A. Turner, dated November 19, 1956.

A Certification of Discovery or Development, issued March 19, 1957, is considered as having been made pursuant to the provisions of Article 6(a) of this Second Amended Contract.

Distribution:
OME (4) Docket
USGS (2) Erickson
USBM (AD)

E. G. Erickson

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

OFFICIAL FILE COPY
O. M. E.
RECEIVED NOV 4 1958

DATE	INITIALS	CODE
11/4	C	220
"	JLJ	110
11/4	[illegible]	800
11/5	[illegible]	500

October 8, 1958

MEMORANDUM

To: OME Field Team, Region I

From: Howard F. Albee, Geologist, U. S. Geological Survey

Subject: Final inspection report (geologic), Docket No. DMEA-325 (Zinc), Grandview Mines, Inc., Scandia Mine, Stevens County, Washington, Second Amended Contract No. Idm-E60

The property was visited October 3, 1958. The project was completed and all drilling equipment had been removed from the property.

DDH's 10, 11, and 12 had been completed since the last inspection, which was made on August 7. At the completion of DDH 11, 2193 feet of the 2225 feet allowed under the contract had been drilled and the Operator completed the last 258 feet of DDH 12 on his own account.

Core from DDH's 10 and 11 shows sparsely scattered sphalerite beyond depths of 140 feet and 180 feet, respectively. Core from DDH 12 shows fair amounts of sphalerite from 247.5 feet to 252.5 feet and sparsely disseminated sphalerite from there to the contact.

The completed drill holes are all at an approximate bearing of N. 15° W.

DDH No.	Inclination	Depth to contact	Total depth	% recovery
10	-33°	231.5'	236'	90
11	-28½°	215.5'	216'	93
12	-30°	280.5'	290'	96

The core is in covered core boxes and stored at the respective drill sites.

Distribution:
OME (4)
USBM (2)
USBM(AD)
Docket
Albee

Form MR-10C (April 1958)

RECEIVED OCT 28 1958 O.M.E.

alr-W

Budget Bureau No. 42-R1036.5

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

~~Stage III~~ Ic-200

Month of July 1958 Docket No. ~~DMEA~~ DMA 375 Contract No. 20, 18

Operator's Name Grandview Mines, Inc. Minerals

Address ~~Radio Central Bldg., Spokane, Wash.~~

Contract Amount, $ 44922.00 Government Participation: 50 % Amount, $ 22,461.00

Stage III

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:	11,407.44	4,078.56	15,486.00	12/18/58 AWK		
Drilling				11407.44	4078.56	15,486.00
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	160.00			160.00	—	160.00
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):	24.50					
Ore Sacks				24.50	—	24.50
Prior Contract					29252.39	29252.39
$	11,591.94	4,078.56	15,670.50			
TOTALS				11591.94	33,330.95	44922.89

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

Date 10/16/58 *Payee Grandview Mines

Per Karl W. Jaeger Title President

*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:

$ 4795.97

Signature Dorothy F. Long (Authorized Certifying Officer)

Date 10/23/58 Vou. No. 2239

(See other side)

5795.97
Withheld 1000.00
Pay 4795.97

(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. E60 in accordance with the terms of the contract.

Signature /s/ Eric L. Erickson Title Mining Engr. Date 10/21/58

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

Signature /s/ A. B. Weissenborn Title Exec. Officer Date Oct. 23, 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

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of [illegible] 195[illegible] Docket No. ~~DMEA~~ DMA [illegible] Contract No. [illegible]
Operator's Name [illegible] Inc. Minerals [illegible]
Address [illegible] Radio Control Bldg., Spokane, Wash.

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								
Raising								
Shafts								
Winzes								
Drilling: Core	Ft.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2225	6.96/ft.
Churn								
Auger								
Stripping	[illegible]	160.00	160	160.00			160	1.00/cu.
Trenching	[illegible]	20.50	70	20.50			70	$0.35/cu.
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		11,591.[illegible]		15,[illegible].00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 10/16/58 Operator [illegible] Inc.
Per [illegible] Title President

→ 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/ Eric G. Erickson, 10/12/58

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

Narrative Report on Diamond Drilling on Scandia Prospect by Grandview Mines July and August, 1958. OEM Docket No. 325, Contract No. [illegible]-660, Stage III.

The locations, directions, and lengths of diamond drill holes drilled during July and August follow.

	Collared	Direction	Depth
DDH7	146 ft., S. 75° W. and 90 ft. above DDH5	N. 19° W.,-47°	371 ft.
DDH8	115 ft., S. 15° E., and 47 ft. below DDH9	N. 12°30' W.,-51°	420 ft.
DDH9	247 ft., S. 57° E., and 149 ft. below DDH4	N. 13° W.,-41°	364 ft.
DDH10	177 ft., N. 83° E., and 82 ft. below DDH4	N. 15° W.,-33°	236 ft.
DDH11	109 ft., N. 57° E., and 10 ft. above DDH4	N. 12° W.,-29½°	216 ft.
DDH12	161 ft., N. 75° E., and 39 ft. below DDH9	N. 14° W.,-30°	290 ft.

All drill holes were collared in whitish gray limestone and drilled to the slate contact and a few feet beyond. Within 200 feet of the slate contact all drill holes from DDH1 through 12 have encountered a brecciated and recemented zone with darker colored limestone, silicified limestone, dolomite and some zinc mineralization. The alteration and brecciation is generally most intense near the slate contact.

Core recovery was excellent except in some mineralized zones in the last holes drilled where higher grade ZnS core was usually spalled off at the ends of short pieces and presumably lost.

Some mineralization was encountered in all holes drilled during 1958. Only lead and zinc sulfide shines were found in DDH7 and less than 1% ZnS in any section of DDH11 which was near the surface and leached and oxidized.

The best mineralization in holes 5 to 12 was

DDH5	6.1 feet	Pb-0.43%	Zn-6.1%	Ag-3.8 oz
DDH6	10.[illegible] feet		Zn 3.0[illegible]	
DDH8	5.2 feet		Zn 2.0[illegible]	
DDH9	1.5 feet		Zn 5.7[illegible]	
	10.0 feet		Zn 3.[illegible]	
	5.7 feet		Zn 3.6[illegible]	
DDH10	6.0 feet		Zn 2.3[illegible]	
DDH12	6.0 feet		Zn 2.9%	

July & Aug., 1958 MF-104 - F60 - DMFA-325
Grandview Mines (Lead-Zinc)

DIAMOND DRILL RECORD

Standpipe 3'
Casing
Started 6/12/58
Finished 6/16/58
Hole Size AX
Depth 206'
% Core Rec. 93%

Mine Scandia
Location Northport District, N E Stevens Co., Washington
Logged by Eskil Anderson Date 6/16/58
Drilled by Boyles Bros. (Herb Buffan, Frank Henderson)

Hole No. 5
Level
Grid
Latitude
Departure
Elevation 2423
Bearing N. 15° W.
Inclination -43°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-3	3'BX	Soft medium xline grayish white ls with	698	15.7-16.7 (some oxidation)	1.0	1.0	No	No	1.2
3'-78	71	black and dark gray wavy irregular banding & blotching. Some fracturing & recementing with white calcite, especially in short, nearly black sections of core. Few coarse ZnS, and some oxidation from 15' to 62'.	699	32.0-33.3 (some oxidation)	1.3	1.3	No	No	0.7
			700	59-62 (Some oxidation) & leaching, ore badly broken for ab 1'	2.7	3.0	No	No	0.7
		Dark gray to black sections of ls with twisted bands or masses of carbonaceous material often fractured & recemented with calcite & ZnS.	833	96-101	5.0	5.0	No	No	1.0
			1027	104.4-106.8	2.4	2.4	Stowell 0.2 Am.Zn	1.1 2.35	13.9 10.90
78-79.8	1.8	Med. grained, med. basic gray green dike. Fresh except for 1" to 2" portion near center.	1028	106.8-110.5	3.7	3.7	St.0.2 Az--	No 0.03	1.1 0.25
			1029	120.5-123.5	3.0	3.0	No	No	1.2
79.8-196	110	Same rock as 3' to 78' becoming more darkened by twisted bands of carbonaceous ls. Also more brecciated & recemented with calcite seams - at times Zn bearing. Oxidation on seams ends at about 90'	1030	145.8-147.8 (v. slight oxidation)			No.	No.	1.8
			1031	179.3-179.8 (Test for Ni)	0.5	0.5	No nickel		
			1032	169-1.74 (Some oxidation)	5.0	5.0	No	No	0.5
		Good ZnS for about 3" at about 96'. Shines scattered thereafter. Some pyrite at ab. 105' Sample from ab. 106' to 110' Very good section of PbS & ZnS for 14" between 106 & 108. Blobs & bands of fine grained pyrite or pyrrhotite at 115.5'; ZnS from 121' to 123' and at 127' From 125' on ls becomes dark from carbonaceous material; brecciated & recemented with white calcite; and somewhat silicified & dolomitized. At 146' ab 2" graphitic slate material.	1033	182.5-185.5	3.0	3.0	No	No	0.6

DIAMOND DRILL RECORD

Standpipe —
Casing 3'

Started 6/12/58
Finished 6/16/58
Hole Size AX
Depth 206'
% Core Rec. 93%

Mine Scandia
Location Northport District, N.E. Stevens Co., Washington
Logged by E. Kil Anderson Date 6/15/58
Drilled by Boyles Bros. (Herb Buffan, Frank Henderson)

Hole No. 5
Level
Grid
Latitude
Departure
Elevation 2423
Bearing N. 15° W.
Inclination -43°

Depth Feet	Feet Core	Lithologic Description	Sample Data No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
		Fair ZnS from 146 to 147 Sparse ZnS, and Zn oxides, 174 to 176 Partly silicified ls with tiny dark gray oval shaped cherty spots in gray ls. Blobs of pyrite or pyrrhotite at 192.5 & 195							
196-206	6	Black graphitic slate with scattered pyrite. Slaty cleavage at 90° to hole.							

DIAMOND DRILL RECORD

Standpipe 3'
Casing

Started 7/20/5[illegible]
Finished 7/2[illegible]/5[illegible]
Hole Size 4X
Depth 300'
% Core Rec. 94

Mine Scandia
Location Northport Dist., N. E. Stevens Co., Wash.
Logged by Eskil Anderson Date 7/20/5[illegible]
Drilled by Boyles Bros. (Herb Suffan, Frank Henderson

Hole No.
Level
Grid
Latitude
Departure 2202'
Elevation N. 15[illegible]
Bearing -43°
Inclination

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-79.3	2'8X 68	Whitish gray ls with dark gray wavy distorted banding, occasional short dark gray silicified sections, some graphitic partings. Darker gray sections often brecciated and recemented with white calcite seams. About 1' white qtz & calcite at 59'	1034	184.3-189.3	5.0	5.0	No	No	0.2
			1035	189.3-197.[illegible] (Few Zn shines)	8.[illegible]	8.6	No	No	0.2
			1036	250.7-255	5.3 Rejects →	5.3	St No Az--	No Tr	3.2 2.35
			1037	265-270	5.0 Rejects →	5.0	St.No Az--	No Tr	4.4 4.85
			1038	270-275	4.7 Rejects →	5.0	St.No Az--	No. Tr	1.6 0.45
79.3-81	0.8	Med. basic dike							
81-139.8	55	Same as 0-79.3 Some black silicified sections several feet long.							
139.8-141.7	1.9	Med. basic gray green dike							
141.7-375	219	Same as other ls sections Partially oxidized ZnS shines from 140-158. Sporsely scattered Scattered ZnS shines from 184 to 196. Ls becoming more brecciated & recemented, partially dolomitized from 230. ZnS shines at 237 and from 253 to 260. 260-265 Good section of honey yellow ZnS in dark brecciated ls with white calcite seams. 265-270. Same as 260-265. Dark material partially silicified and some dolomitized. 270-275 Low grade ZnS section. Ls whiter & less brecciated after 278 with some darker dolomitized & some silicified short sections both of these becoming more extensive near slate contact with few ZnS shines and more brecciation.							

Page 2

Standpipe 3'
Casing

Started 6/20/58
Finished 6/26/58
Hole Size
Depth 394
% Core Rec.

DIAMOND DRILL RECORD

Mine Scandia
Location Northport dist., [illegible] Stevens Co. Wash.

Logged by [illegible] Date 6/[illegible]/58
Drilled by Dalles Bros. (Herb [illegible], Fran Henderson

Hole No. 5
Level
Grid
Latitude
Departure
Elevation
Bearing N. 18 W.
Inclination -45

Depth Feet	Feet Core	Lithologic Description	Sample Data						
			No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
		Some black and white speckled colo itic material.							
375-380	5'	Black graphitic slate. Bedding at near right angles to direction of hole. Few blebs of pyrite in slate.							

Form 108 2M 3-53 SHAW & BORDEN CO. 308150

DIAMOND DRILL RECORD

Standpipe
Casing 10'

Started 7/1/58
Finished 7/10/58
Hole Size AX
Depth 371
% Core Rec. 98

Mine Scandia
Location Northport Dist., N E Stevens Co., Wash.
Logged by Eskil Anderson Date 7/13/58
Drilled by Boyles Bros. (Herb Buffan, Frank Henderson)

Hole No. 7
Level
Grid
Latitude
Departure 2372'
Elevation
Bearing N. 19° W.
Inclination -47°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-10'	3'BX	Gray-white soft xline ls with dark blue gray wavy irregular banding & blotching. Some brecciation of light material, cemented by dark material (or vice versa), or by calcite or qtz seams almost everywhere. 2" of coarse ZnS spotted ls at 128'. 8" of black carbonaceous ls at 171'. Slight amount of FeO_x staining along seams. Silicification of white and of dark gray ls, sometimes with no change in appearance, beginning at 248' with few ZnS shines, especially at 251'. PbS and ZnS shines from 274 to 280. Snow white calcite & PbS shines. Brecciation increasing and proportion of darker material becoming larger after 255. (1' core lost from 275 to 280)	1041	274.8-281.8	6.0	7.0	--	Tr	Tr
10-289	274.8		1042	332.5-335.5	3.0	3.0	--	Tr	Tr
			1043	335.5-340.5	5.0	5.0	--	Tr	Tr
			Above assays by American Zinc						
289-291.7	2.7	Med. basic dike (dacite)							
291.7-360	68	Intensely brecciated, recemented, black and white limestone, silicified or dolomitized in short sections. Ls becoming very dark and dolomitized after 335 with some near graphite partings and short zones with some pyrite globs. From 332 to 340 few scattered ZnS & PbS shines with large pyrite globs but no near ore. Silicification almost complete for 8' before slate contact. Pyrite at 352'							
360-371	11	Black slate with white calcite and pyrite spots. Bedding at 20° or so from right angles to core.							

DIAMOND DRILL RECORD

Standpipe —
Casing 5'

Started 7/19/58
Finished 7/29/58
Hole Size AX
Depth 420
% Core Rec. 97

Mine Scandia
Location Northport District, Stevens Co., N E Washington
Logged by Eskil Anderson Date 7/29/58
Drilled by Herb Buffan, Frank Henderson (Boyles Bros.)

Hole No. 8
Level
Grid
Latitude
Departure
Elevation 2170'
Bearing N. 12° 30' W.
Inclination -51°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-5	3 BX	Gray ls, few ZnS shines.	1040	3-5	2	2	—	Tr	Tr
			1044	26.7-30.0	3.3	3.3	—	Tr	Tr
5-131	121	Whitish gray ls with blue gray irregular bandings & markings, brecciation showing up particularly where there is dark and light material, cementing by white calcite and some quartz seams and largely by recrystallization. Some coarsely, crystalline gray dolomite. Few 3" stylolitic appearing bands of impure clayey material	1045	35.0-37.0	1.5	2.0	--	Tr	Tr
			1046	201-205	4.0	4.0	--	Tr	0.60
			1047	205-211	6.0	6.0	--	Tr	Tr
			1048	211.0-214.0	2.9	3.0	--	Tr	1.45
			1049	391.2-396.4	5.1	5.2	--	Tr	2.75
			1050	406.1-409.3	3.2	3.2	--	Tr	Tr
				Above assays by American Zinc					
				Assays by Peter Mack					
		Slight oxidation along few seams to about 75'	1046				None	Tr	0.75
		Sparse partially oxidized ZnS at 12' to 14'	1048				None	Tr	1.85
			1049				None	None	2.9
		Few ZnS and pyrite blobs at 27 to 30; with PbS shines, calcite & dolomite 32-37; 47-48; ZnS and few PbS shines 85-86.							
		FeO_xs in clay & breccia band about 4" across at 71-72.							
		Strong brecciation from 99 to 101 with a few feet of medium gray, rather coarsely xline dolomite on both sides. Somewhat similar zones off and on to 131.							
131-131.9	0.9	Dark gray green dike							
131.9-414.5	280.5	Slaty banding in ls on both sides of dike for about 2' at rt. angles to about 40° from axis of core.							
		Ls otherwise the same as from 5 to 131 with more coarse dolomite, more dark material, and gradually more brecciation							
		ZnS shines at 146.5. Coarse ZnS at 245.5; 201-215 with few PbS shines.							
		Brecciation strong near 268'. Silicified zone, dark gray qtz.							

Page 2, Cont'd

DIAMOND DRILL RECORD

Standpipe —
Casing

Started 7/19/58
Finished 7/23/58
Hole Size NX
Depth 420
% Core Rec. 97

Mine Scandia
Location Northport District, Stevens Co., Wash.
Logged by Eskil Anderson Date
Drilled by Herb Buffan Frank Henderson

Hole No. 5
Level
Grid
Latitude
Departure 2170'
Elevation
Bearing N. 12° 30' W.
Inclination -51°

Depth Feet	Feet Core	Lithologic Description	Sample Data No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
		Some dolomitization for some feet in that area with some white qtz and white calcite. Whitish gray typical ls from about 285 with core brecciation after 360. Few short silicified sections. ZnS mineralization beginning at 391. Fine PbS shines. Core largely dolomitized to 408 and silicified from there to slate contact at 414.5. Two narrow ZnS seams within 6" of contact (about 1/16" thick)							
414.5 -420	5.0	Black graphitic slate with few specks of pyrite & white calcite seams. Bedding at 10° to 15° to right angles to core. No break at contact.							

DIAMOND DRILL RECORD

Standpipe
Casing 6'

Started 7/12/58
Finished 7/18/58
Hole Size [illegible]
Depth 364
% Core Rec. 90

Mine Scandia
Location Northport Dist. Stevens Co. Washington
Logged by Eskil Anderson Date 7/18/58
Drilled by Boyles Bros. (Herb Suffan, Frank Henderson)

Hole No. 9
Level
Grid
Latitude
Departure
Elevation 2217'
Bearing N. 15° W.
Inclination -41°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-6	2'3"	Gray ls. from 3' to 6' few Zns shines.	1051	121.3-123.4	1.5	1.5	--	Tr	5.70
6-61.2	51	Gray white ls & dolomite with dark gray irregular banding, brecciation, and recementing intense in first 45'. Some impure ls shows good black & white banding. Lighter gray ls with smaller proportion of dark material from 45'. Partially oxidized Zns at 57'	1052	149-154	3.4	5.0	--	Tr	5.95
			1053	154-159	3.4	5.0	--	Tr	5.80
			1054	159-164	5.0	5.0	--	Tr	0.70
			1055	164-169	5.0	5.0	--	Tr	Tr
			1056	169-175	5.0	6.0	--	Tr	Tr
			1057	175-181	5.0	6.0	--	Tr	Tr
			1058	181-186	5.0	5.0	--	Tr	1.50
			1059	186-191.5	4.0	5.5	--	Tr	Tr
			1060	191.5-197	4.0	5.5	--	Tr	Tr
			1061	197-201	2.7	4.0	--	Tr	0.50
			1062	213-217	4.0	4.0	--	Tr	Tr
61.2-61.2	0.5	Red. basic dike	1063	242-246	3.5	4.0	--	Tr	Tr
			1064	250-254.2	3.9	4.2	--	Tr	1.10
			1065	259-264	4.7	5.0	--	Tr	Tr
61.2-332	271	Gray white ls with some dark wavy banding and particles in recemented breccia zones. Few Zns shines at 72.5 feet; 80'; 110'. Good patch of yellow & coffee brown Zns at 122' to 123'. Yellow brown Zns shines continuing in varying abundance from 12[illegible] 10' core loss between 13[illegible] 159. After 215' ls becomes darker, intensely brecciated, recemented, and partially silicified and dolomitized. Zns shines scattered throughout in varying concentrations. Pbs shines and seam, about 1/8", at ab. 255'. Coarse Pbs blob at 253. Light gray white ls from 292 to 305 when brecciation again becomes intense and alternates with layers of white gray ls to 332. From 334 ls is mostly replaced by silica to slate contact.	1066	264-269	3.3	5.0	--	Tr	1.10
			1067	269-274	5.0	5.0	--	Tr	0.80
			1068	274-280.5	6.5	6.5	--	Tr	Tr
			1069	280.5-286.2	5.7	5.7	--	Tr	3.35
			1070	290.4-295.7	5.3	5.3		Tr	0.45
			1071	295.7-296.7	5.0	5.0	--	Tr	1.10
			1072	299.7-304	5.3	5.3	--	Tr	Tr
			1073	5-6	1	1	--	--	0.40
									0.90
				(BX split)					
				Soluble Zn					
			1054	Tr					
			1052	Tr					
			1078	Tr					
				Above assays by American Zinc					
				Assays by Peter Mack					
			1051				None	None	5.8
			1052				None	None	5.9
			1053				None	None	5.8
			1054				None	None	1.0
			1058				None	None	1.7
			1061				None	None	0.75
			1062				None	None	0.25
			1064				None	None	1.5
			1066				None	None	1.4
			1067				None	None	1.15
			1068				None	None	0.45
			1069				None	Tr	3.8
255-364	4	Black graphitic slate with white calcite seams and pyrite specks. Bedding about 20° from right angles to axis of core. No. 3. Practically no core lost or broken material at contacts with slate so far. No. 3. Major core losses seem to be at places where good Zns has chattered and spalled off ends of short core pieces.	1070	None	None	1.1	1071	None	None 1.1

Form 108 2M 8-58 SHAW & BORDEN CO. 300/150

DIAMOND DRILL RECORD

Standpipe 6'
Casing
Started 8/7/.8
Finished 8/12/.8
Hole Size AX
Depth 236
% Core Rec. 98

Mine Scandia
Location Northport Dist., N.E. Stevens Co., Wash.
Logged by Esbil Anderson 8/12/.8
Drilled by Boyles Bros. Drill Co. Date Frank Henderson

Hole No.
Level
Grid
Latitude
Departure 2278
Elevation N. 15° W.
Bearing -33
Inclination

Depth Feet	Feet Core	Lithologic Description
0-6	6 BX	Whitish gray medium crystalline ls with distorted blue gray band ing and blotches and occasional recemented breccia zones and a
6-231.5	206	few short dolomitized sections, sometimes with ZnS shines. Few ZnS shines in BX core 0-6 and thereafter. ZnCO3, Zn oxide in seams, and some ZnS from 8' to 140. Ab. 1/8" band Pb at 33'. Coarsely xline calcite from 130 to 135.5 Few Pb & ZnS from 138.5-143.5. ZnS scattered from 140 on. Very few pyrite specks in core. Core considerably darker and usually intensely brecciated after 150, and often silicified or dolomitized with ZnS specks or occasional blebs of fine grained pyrite. Ab. 1/8" seam of ZnS at contact.
231.5-236	4.0	Black graphitic slate with few pyrite spots and white calcite seams. Cleavage and bedding at about 45° to axis of core.

N. B. Where core is lost in ore section most shattered pieces and fines are high in ZnS.

Sample Data

No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
~~1080~~	~~9-14~~	~~5.0~~	~~5.0~~	~~--~~	~~--~~	~~Tr~~
1081	26-28	2.0	2.0	--	Tr	Tr
1082	33-42	2.0	3.0	--	Tr	Tr
1083	73.2-75.5	2.3	2.3	--	--	Tr
1084	106.4-111.4	5.0	5.0	--	--	--
1085	134-149	5.0	5.0	--	Tr	Tr
1086	149-154	5.0	5.0	--	Tr	Tr
1087	155-161	5.0	6.0	--	Tr	Tr
1088	161-167	5.0	6.0	--	Tr	2.35
1089	178-182.5	4.5	4.5	--	Tr	Tr
1090	182.5-188.0	5.5	5.5	--	Tr	0.85
1091	188.5-191	1.3	3.0	--	Tr	Tr
1092	216.5-221.5	5.0	5.0	--	Tr	0.40

	Soluble Zn	Soluble Pb
1080	Tr	
1081	Tr	
1082	Tr	Tr
1083	Tr	
1085	Tr	Tr
1084	Tr	

Above Assays by American Zinc

Assays by Peter Lach

1083	None	None	None
1088	None	None	2.35
1089	None	None	0.85
1091	None	None	0.65
1092	None	None	0.5

DIAMOND DRILL RECORD

Standpipe
Casing 5

Started 8/14/58
Finished 8/18/58
Hole Size AX
Depth 216
% Core Rec. 93

Mine Scandia
Location Northport Dist., N E Stevens Co., Wash.
Logged by Eskil Anderson Date 8/18/58
Drilled by Boyles Bros. (Herb Buffan & Frank Henderson

Hole No. 11
Level
Grid
Latitude
Departure
Elevation 2370
Bearing N. 12° W.
Inclination -28½°

Depth Feet	Feet Core	Lithologic Description	Sample Data No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-215.5	201	Whitish gray ls with some wavy irregular blue gray banding; brecciation and proportion of dark ls increasing after 100'. Core gradually becomes more shattered.	1093	58-59	1.0	1.0	--	Tr	0.80
			1094	65-68	3.0	3.0	--	--	--
			1095	94-96.5	2.0	2.5	--	--	--
			1096	114-118	4.0	4.0	--	--	--
			1097	204-208	3.5	4.0	--	Tr	0.40
		Tan spots, may be ZnCo3, or Fe Ox stain, at 4'-19; 41-43; 52; 65-68; 72; 77; 94-96.5; 105, 115-118; 133-8; 153-154;	1098	213-214.5 (Identify brown mineral)					
		White calcite from 52 to 60 From 58 to 59 FeO_x from bugholing probably partly from leached PbS small amount of which remains.		Soluble Zn					
		ZnS spots at 70.2; 80.3;	1093	0.80					
		About 1½' cave near 150'.	1094	Tr					
		Core much darker and intensely brecciated after 160. White calcite and qtz seams often cementing breccia. 1/8" calcite seam with Zn and PbS at 184. Few ZnS shines scattered through core thereafter.	1095	Tr					
			1096	Tr					
				Above assays by American Zinc					
				Peter Mack Assays					
			1097				None	None	0.5
		At 212'-213' apple green Ni staining in calcite and ls breccia. Silicified ls from 213-215.5 with ZnS and brown translucent mineral from 213 to 214.5.							
215.5-216	0.5	Black graphitic slate with pyrite blobs.							

DIAMOND DRILL RECORD

Standpipe 6'
Casing

Started 7/31/58
Finished 8/5/58
Hole Size AX
Depth 290
% Core Rec. 96

Mine Scandia
Location Northport Dist., N E Stevens Co., Washington
Logged by Eskil Anderson Date 8/6/58
Drilled by Boyles Bros. (Herb Buffan, Frank Henderson

Hole No. 12
Level
Grid
Latitude
Departure
Elevation 2178'
Bearing N. 14° W.
Inclination -30°

Depth Feet	Feet Core	Lithologic Description
0-6	6	BX
6-280.5	268.5	Whitish gray ls with irregular wavy and distorted dark gray bands particles and zones, brecciated and recemented with ls, calcite, or quartz, brecciation becoming more abundant, especially after 118'. Few partially oxidized ZnS shines at 16.5; 26.5; 61-62; 103; with bugholing at 180 and 182.5. Few fine PbS shines near 180 Intensely brecciated, and recemented, from 170 with gradually increasing content of darker ls. FeO_x and Zn oxide stain on seams from 210 to 245. Few PbS shines between 240-250. Fair ZnS from 247.5 to 252.5 with occasional shines thereafter. Most of good Zn zone silicified and dark gray. From 252.5 core is very dark, has been intensely broken and recemented, and is largely silicified, and partially dolomitized with little unaltered ls. Some white qtz and calcite recementing on seams.
280.5-290	6	Black graphitic slate; bedding at very nearly right angles to axis at core.

Sample Data

No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
				--	0.10	Tr
1073	177.8-183.1	5.3	5.3	--	Tr	0.30
1074	195-199	4.0	4.0	--	Tr	0.65
1075	202-204.5	2.5	2.5	--	Tr	Tr
1076	207.5-210.5	3.0	3.0	--	Tr	Tr
1077	241.5-246.5	5.0	5.0			
1078	246.5-252.5	4.7	6.0	--	Tr	Tr
1079	255.5-262	6.5	6.5			
	Soluble Zn		Soluble Pb			
1079	Tr					
1073	Tr		Tr			
	Above assays by American Zinc					
	Assays by Peter Mack					
1078				None	Tr	2.8
1078 (Reject)				None	Tr	2.9

Grandview Mines Oct. 11, 1958

258- 13	A	Tr	Tr	Tr	0.2
	B	Tr	1.4	3.1	1.0
	C	Tr	0.2	0.95	Tr
	1046		none	Tr	0.75
	48		"	Tr	1.85
	52		"	"	5.8
	53		"	"	5.8

Helen MacD

Grandview Mines

Oct. 11, 1958

1054	none	none	1.0
58	"	"	1.7
61	"	"	0.75
62	"	"	0.25
64	"	"	1.5
66	"	"	1.4
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	none	[illegible]
70	"	none	1.1

Peter J Mark

CERTIFICATE OF ASSAY

FROM

PETER MACK

ASSAYER AND CHEMIST

Wallace, Idaho, Oct. [illegible]

Grandview Mines

	1071	none	none	1.1
	78	"	Tr	2.8
(REJECT)	78	"	Tr	2.9
	83	"	none	none
	88	"	"	2.35
	90	"	"	0.85
	91	"	"	0.65
	92	"	"	0.5
	1099	"	"	0.5

Peter Mack

AMERICAN ZINC, LEAD & SMELTING CO.

Metaline Falls, Washington

ASSAY SHEET G.W. Mines Inc. **Date** July 12, 1958

Description	% Lead	% Zinc	% Soluble Zinc	% Soluble Lead			Remarks
1953 Core Samp# 1027	2.35	10.90					
" " 1028	0.03	0.25					
" " 1036	Tr.	2.35			10 assays		
" " 1037	Tr.	4.85					
" " 1038	Tr.	0.45					
1956 " " 1141	Tr.	10.55					
" " 1142	0.10	0.20					
" " 1143	Tr.	1.10					
" " 1145	Tr.	0.70	not charged				
" " 1157	0.03	2.90					
" " 1158	Tr.	0.10					
" " 1159	Tr.	0.65					
" " 1160	Tr.	0.15					
" " 1164	0.15	1.15					
" " 1165	0.20	3.15					
" " 1169	Tr.	3.60					
" " 1171	Tr.	2.30					
" " 1172	0.18	0.60					
" " 1173	Tr.	4.00					
" " 1177	0.15	4.30					

Assayer

AMERICAN ZINC, LEAD AND SMELTING COMPANY

Hotaling Building, [illegible]

September 10, 1938

Assays of Diamond Drill cores
E. Anderson, 8/19/38

Grandview Mines

Core Sample No.	[illegible]
X1038	[illegible]
X1040	[illegible]
X1042	[illegible]
X1044	[illegible]
X1047	[illegible]
X1053	[illegible]
X1054	[illegible]
X1055	[illegible]
X1056	[illegible]
X1058	[illegible]
X1059	[illegible]
X1060	[illegible]
X1061	[illegible]
X1062	[illegible]
X1063	[illegible]
1064	[illegible]
1066	[illegible]
1067	[illegible]
1068	[illegible]
1070	[illegible]
1072	[illegible]
1074	[illegible]
1075	[illegible]
1076	[illegible]
1077	[illegible]
1086	[illegible]
1087	[illegible]
1089	[illegible]
1091	[illegible]
1092	[illegible]

55 assays

AMERICAN ZINC, LEAD & SMELTING CO.
METALINE FALLS, WASH.

September 18, 1958

Grandview Mines
310 Radio Central Building
Spokane, Washington

Assays of Diamond Drill Cores

71 assays

Core Sample No.	% Lead	% Zinc	% Soluble Lead	% Soluble Zinc
A58-13A	Tr.	0.65		
1045	Tr.	Tr.		
1053	Tr.	5.20		
1054	Tr.	0.70		Tr.
1079	Tr.	Tr.		Tr.
1081	Tr.	Tr.		Tr.
1082	Tr.	Tr.	Tr.	Tr.
1083	Tr.			Tr.
1085	Tr.	Tr.	Tr.	Tr.
1093	Tr.	0.80		0.80
X 1039	Tr.	0.90		
X 1040	Tr.	Tr.		
X 1041	Tr.	Tr.		
1042	Tr.	Tr.		
1043	Tr.	Tr.		
X 1044	Tr.	Tr.		
1046	Tr.	0.60		
X 1047	Tr.	Tr.		
1048	Tr.	1.45		
1051	Tr.	5.70		
X 1055	Tr.	Tr.		
X 1056	Tr.	Tr.		
X 1057	Tr.	Tr.	Tr.	
X 1058	Tr.	1.50		Tr.
X 1059	Tr.	Tr.		
X 1060	Tr.	Tr.		
X 1061	Tr.	0.50		
X 1062	Tr.	Tr.		
X 1063	Tr.	Tr.		
1065	Tr.	Tr.		

X Duplicate assays of Sept. 10, 1958 sheet

Assay #1078 not received

27 Assays for Pb
4 Assays for soluble Pb
31 @ $2.50

25 Assays for Zn
15 " " soluble Zn
40 Assays @ 3.00

$77.50
120.
$197.50
Less 10% 19.75
Total 177.75

	% Lead	% Zinc	% Soluble Lead	% Soluble Zinc
Core Sample No. No. A58-13B	2.75	0.65		
1049	Tr.	2.75		
1050	Tr.	Tr.		
1052	Tr.	5.95		Tr.
1088	Tr.	2.35		
1090	Tr.	0.85		
1069	Tr.	3.35		
1071	Tr.	1.10		
1073	0.10	Tr.	Tr.	Tr.
1097	Tr.	0.40		
1080	Tr.			Tr.
1094				Tr.
1095				Tr.
1096				Tr.
1084				Tr.

36 assays

Wm. H. Stowell & Co.

GOLD and SILVER BOUGHT.

CHEMISTS and ASSAYERS
421 SPRAGUE AVENUE
TELEPHONE MAIN 5924

Memorandum of Assay of Rock made for

Grandview Mines Spokane, Wash., July 8, 1958

ASSAY VALUE PER TON OF 2,000 POUNDS AVOIRDUPOIS

SAMPLE MARK	Lead per lb.			Zinc per lb.			Silver at cents per ounce				Gold at per ounce				Total	
	Per Cent	DOLLARS	Cents	Per Cent	DOLLARS	Cents	OUNCES	10ths	DOLLARS	Cents	OUNCES	100ths	DOLLARS	Cents	DOLLARS	Cents
No. 1 698	no			1 2/10			—									
No. 2 699	no			7/10			—									
No. 3 700	no			7/10			—									
No. 4 833	no			1 0/10			—									
No. 5 1027	1 1/10			13 9/10				2								
No. 6 1028	no			1 1/10				2								
No. 7 1029	no			1 2/10			—									
No. 8 1030	no			1 5/10			—									

No. 155778-93

Charges $

Wm H Stowell & Co
H. S.

Assayers

Wm. H. Stowell & Co.

GOLD and SILVER BOUGHT.

CHEMISTS and ASSAYERS
421 SPRAGUE AVENUE
TELEPHONE MAIN 5924

Memorandum of Assay of Rock made for

Grandview Mines Spokane, Wash., July 8, 1958

ASSAY VALUE PER TON OF 2,000 POUNDS AVOIRDUPOIS

SAMPLE MARK	Lead per lb.			Zinc per lb.			Silver at cents per ounce				Gold at per ounce				Total	
	Per Cent	DOLLARS	Cents	Per Cent	DOLLARS	Cents	OUNCES	10ths	DOLLARS	Cents	OUNCES	100ths	DOLLARS	Cents	DOLLARS	Cents
No. 1 1032	no			5/10			—									
No. 2 1033	no			6/10			—									
No. 3 1034	no			2/10			—									
No. 4 1035	no			2/10			—									
No. 5 1036	no			3 2/10			no									
No. 6 1037	no			4 4/10			no									
No. 7 1038	no			1 6/10			no									
No. 8																

No.

Charges $

Wm H Stowell & Co Assayers
HJ

Wm. H. Stowell & Co.

GOLD and SILVER BOUGHT.

CHEMISTS and ASSAYERS
421 SPRAGUE AVENUE
TELEPHONE MAIN 5924

Memorandum of Assay of Rock **made for**

Grandview Mine Spokane, Wash., July 8, 1958

ASSAY VALUE PER TON OF 2,000 POUNDS AVOIRDUPOIS

SAMPLE MARK	..... per lb.			Nickel per lb.			Silver at ..... cents per ounce				Gold at per ounce				Total	
	Per Cent	DOLLARS	Cents	Per Cent	DOLLARS	Cents	OUNCES	10ths	DOLLARS	Cents	OUNCES	100ths	DOLLARS	Cents	DOLLARS	Cents
No. 1 1031 Iron Sulphide				no												
No. 2																
No. 3																
No. 4																
No. 5																
No. 6																
No. 7																
No. 8																

No. .....

Charges $ .....

Wm H Stowell & Co Assayers
H.J.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

August 11, 1958

8/26 C 220
26 Com 100
" 9C 110
8/27 C&S 800
" alt 500

MEMORANDUM

To: DMEA Field Team, Region I

From: Howard F. Albee, Geologist, U. S. Geological Survey, and Eric G. Erickson, Mining Engineer, U. S. Bureau of Mines

Subject: Interim inspection, Docket No. DMA-325 (zinc), Grandview Mines, Inc., Scandia Mine, Stevens County, Washington, Second Amended Contract No. Idm-E60

The property was visited August 7, 1958, accompanied by Eskel Anderson, company geologist, and A. E. Weissenborn, R. G. Yates and P. E. Hotz, geologists, U. S. Geological Survey. 3 men

DDH 6, 7, 8 and 9 have been completed since the inspection by G. G. Waddell on June 24, 1958. Because of the difficulty encountered in moving the drill over the very steep terrain, the progress has been slow, but the Operator expects the drilling to be completed prior to the contract completion date.

The drill holes are all at an approximate bearing of N. 15° W. The depth and inclination of the holes completed to date are as follows:

DDH-5	206'	- 43°
DDH-6	380'	- 43°
DDH-7	371'	- 45°
DDH-8	420'	- 51°
DDH-9	364'	- 41° 1/

1/ DDH-9 was moved 99' N. 15° W. of proposed site to avoid drilling in canyon bottom.

The Operator drilled one hole N. 75° E. 180 feet from DDH-9. This hole bottomed at 290 feet and was inclined at -30°.

With the exception of DDH-7, core from the holes shows fairly good thicknesses of low grade sphalerite. The grade is estimated to range from 1 to 7 percent; however, definite grades and thicknesses must await assay results. The core recovery in DDH-9 was about 90 percent and from the other holes it was from 95 to 98 percent.

The drilling is being performed in a workmanlike manner and the core is placed in covered core boxes that are stored at each drill site.

The status of the contract is:

Date of contract: August 1, 1957 31
Termination date: October 21, 1958
Amount of contract: $44,922.00 (Stages I, II and III)
Amount spent: 33,330.95 (thru June '58)

Total cost - Stages I and II: $29,252.39
" " - Stage III : 15,670.50
Amount spent " III : 4,078.56

Stage III (fixed costs)	Authorized	Completed
Core drilling	2,225 ft.	1,741 ft.
Assay determinations	160	none
Sample sacks	70	none

Howard F. Albee
Eric G. Erickson

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Erickson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

June 25, 1958

DMEA
RECEIVED JUL 22 1958

7/22 C 220
22 Com 100
7 Jy 110
7/22 800
500

MEMORANDUM

To: DMEA Field Team, Region I

From: G. G. Waddell, Mining Engineer, U. S. Bureau of Mines

Subject: Interim inspection, Docket No. DMEA-325, Grandview Mines, Inc., Scandia Mine, Stevens County, Washington, Contract No. Idm-E60

An inspection of the Scandia mine was made on June 24, 1958. A diamond driller, helper, and a foreman from Boyles Bros. Drilling Co. were present. Eskel Anderson, geologist for Grandview Mines, was contacted at his Deep Lake home on Monday afternoon but he was unable to accompany me on the inspection.

Drilling commenced about June 9, 1958 and at the time of the inspection 385 feet of AX drilling had been completed. No cementing or reaming has been needed and the core recovery has approached 90%. A brief summary of the holes is as follows:

DDH-5 Bearing N. 15° W., inclined -44°
(hole up hill and N. 15° W. of DDH-4)

0-124' Light grey limestone
77.5 - 79.5 Dark basic dike
105.2 - 106.2 Galena and sphalerite, est. 3% Pb, 3% Zn
124-198' Dark grey limestone
198-206' Ledbetter slate; bedding 17° to axis of core; pyrite on contact

DDH-6 Bearing N. 15° W., inclined -43°
(hole down hill and S. 15° E. of DDH-4)

0-179' Light grey limestone with sections of dark limestone and dolomite
79.5 - 80.5' Basic dike
140.0 - 142.0' Basic dike
(slate contact expected at 400' depth)

Status of the contract:

Date of contract: August 1, 1957
Completion date: October 31, 1958
Amount of contract: $44,922.00
Amount spent: 29,252.39 (total cost of Stages I and II)
(no expenditures under Stage III)

Stage III	Authorized	Completed
Diamond drilling	7 holes or 2,225 feet	1½ holes or 385 feet

G. G. Waddell

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Waddell

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 JUL 21 1958 D.M.E.A.

Month of June, 1958 Docket No. ~~DMEA~~ DMF 325 (Zn) Contract No. ~~Stage III~~ Idm-E60

Operator's Name Grandview Mines Minerals Zn, Pb

Address 310 Radio Central Bldg., Spokane 4, Washington

Contract Amount, $ ~~15,670.50~~ 44,922.00 Government Participation: 50 % Amount, $ 22,461.00

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
Stage III						
(1) Independent Short Form Contracts:						
Drilling	$4,078.56	None	$4,078.56	4078.56	—	4078.56
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Prior Contracts					29252.39	29252.39
TOTALS	$4,078.56	None	$4,078.56	4078.56	29252.39	33330.95

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

Date 7/10/58 *Payee GRANDVIEW MINES

Per Karl W. Joseph Title President

*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:

$ 2039.28

Signature Dorothy F. Lowe
(Authorized Certifying Officer)

Date 7/15/58 Vou. No. 2196

(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. E60 in accordance with the terms of the contract.

Signature /s/ Galen G. Waddell Title Mining Engr. Date 7-14-58

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wilson G. Agnew Title Acting Spec. Date 7-15-58

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

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1958 Docket No. DMEA 325 (Zn) Contract No. Idm-E60 Stage III

Operator's Name Grandview Mines Minerals Zn, Pb

Address 310 Radio Central Bldg., Spokane, Wash.

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								
Raising								
Shafts								
Winzes								
Drilling: Core	foot	$4,078.56	586	$4,078.56 X	586	$6.96	2225	6.96
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$4,078.56	586	$4,078.56				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 7/10/58 Operator GRANDVIEW MINES

Per Karl Jaeger Title President

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/ Galen L. Waddell
Mining Engr, 7/14/58

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

Narrative Report on Diamond Drilling on Scandia Prospect by Grandview Mines in June, 1958. DMEA Docket No. 325, Contract No. IDM-E60, Stage III.

Mobilization was begun by Boyles Bros. Drilling Co. on June 9 with two crews and the first drilling began on June 12.

DDH5 was collared in grayish white limestone at 148 feet N. 13° W. and 63 feet above DDH4. It was drilled from elevation 2423 feet at -43° and N. 15° W. to a depth of 206 feet, which was 10 feet beyond the Ledbetter slate contact at 196 feet. The hole was drilled in grayish white limestone, sometimes fractured and recemented, sometimes becoming dark to black and partially silicified and dolomitized, especially from 125 feet to the slate contact at 196 feet. A few coarse honey colored ZnS spots were scattered here and there for the length of the hole. A short high grade section of lead and zinc sulfides occurred between 105 and 107 feet with lower grade material, just before and beyond the high grade zone for a few feet. Assays have not yet been completed.

DDH6 was drilled at -43° N. 15° W. from a point S. 12° 30' E., 151.5 feet from DDH4. Its collar elevation is 2282 feet. The rocks encountered in the hole were similar to those in DDH5, with what seemed to be a more brecciated, darker partially silicified zone from 230 to 270 and again towards the slate contact, which was cut at 375 feet. From about 260 feet to about 275 feet a zone of low grade ZnS represents the ore zone which so far has generally been within 100 feet of the slate contact.

Two narrow medium basic dikes were encountered in DDH6 and one in DDH5.

Core recovery was from 93% to 94%. Although the limestone has been extensively brecciated, recementing of the breccia has made the zones drilled almost solid and accounts for the good core recovery.

DIAMOND DRILL RECORD

Standpipe
Casing
Started 5/12/58
Finished 5/1/58
Hole Size [illegible]
Depth [illegible]
% Core Rec.

Mine Sandia
Location Northport District, [illegible] Stevens Co., Washington
Logged by Leskil Anderson 5/1/58
Drilled by Boyles Bros. (Herb Dalton, Frank Henderson)

Hole No.
Level
Grid
Latitude
Departure
Elevation 2423
Bearing N. 15° W.
Inclination -43°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
[illegible]	[illegible]	Soft medium saline grayish white, ls with	502	12.7-13.7	1.0	1.0			
[illegible]-75	71	black and dark gray wavy irregular banding or blotching.		(some oxidation)					
		Some fracturing & recementing with white calcite, especially in short, nearly black sections of core.	503	22.0-23.3 (some oxidation)	1.3	1.3			
		Few coarse Zns, and some oxidation from 18' to 62'.	700	53-62 (some oxidation)	7.7	3.0			
			833	96-101 leaching, core badly broken for ab 1'	5.0	5.0			
		Dark gray to black sections of ls with twisted bands or masses of carbonaceous material often fractured & recemented with calcite & Zns.	1027	104.4-106.8	2.4	2.4			
75-79.8	1.8	Med. grained, med. basic gray green dike. Fresh except for 1" to 2" portion near center.							
79.8-105	110	Same rock as 8' to 78' becoming more darkened by twisted bands of carbonaceous ls. Also more brecciated & recemented with calcite seams - at [illegible] in bearing. Oxidation [illegible] ends at about 90'	1028	105.8-110.5	3.7	3.7			
		Good Zns for about 3' at about 96'. Shines scattered thereafter.	1029	120.5-123.5	3.0	3.0			
		Some pyrite at ab. 105'	1030	145.5-147.5 (v. slight oxidation)					
		Sample feed ab. 106' to 110'							
		Very good section of blob Zns for 14' between 106 & 108.							
		Blobs & bands of fine grained pyrite or pyrrhotite at 115.5'; Zns from 121' to 123' and at 127'	1031	171.5-172.5 (Test for Pb)	3.5	3.5			
		From 125' on ls becomes dark from carbonaceous material; brecciated & recemented with white calcite; and somewhat silicified & dolomitized.	1032	173-174 (Some oxidation)	5.0	5.0			
		At 140' ab 2" graphitic slate material.	1033	182.5-183.5	[illegible]	[illegible]			

DIAMOND DRILL RECORD

Standpipe
Casing 3'

Started 6/12/58
Finished 6/16/58
Hole Size 206'
Depth 93%
% Core Rec.

Mine Scandia
Location Northport District, N E Stevens Co., Washington
Logged by Eskil Anderson Date 6/16/58
Drilled by Boyles Bros. (Herb Buffon, Frank Henderson

Hole No.
Level
Grid
Latitude
Departure
Elevation 2423
Bearing N. 15 W.
Inclination -43°

Depth Feet	Feet Core	Lithologic Description	Sample Data No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
		Fair ZnS from 146 to 147 Sparse ZnS, and Zn oxides, 174 to 176. Partly silicified ls with tiny dark gray oval shaped cherty spots in gray ls. Blobs of pyrite or pyrrhotite at 192.5 & 195.							
196-206		Black graphitic slate with scattered pyrite. Slaty cleavage at 90° to hole.							

DIAMOND DRILL RECORD

Standpipe
Casing 9'

Started 6/20/58
Finished 6/26/58
Hole Size AX
Depth 380'
% Core Rec. 94

Mine Scandia
Location ~~Northport District., N E Stevens Co., Wash.~~
Logged by ~~Eskil Anderson~~ Date 6/30/58
Drilled by ~~Boyles Bros.(Herb Burton, Frank Henderson~~

Hole No.
Level
Grid
Latitude
Departure 2282'
Elevation
Bearing N. 15° W. -43°
Inclination

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-9	2'BX	Whitish gray ls with dark gray wavy distorted banding, occasional short dark gray silicified sections, some graphitic partings. Darker gray sections often brecciated and recemented with white calcite seams	1034	184.3-189.3	5.0	5.0	--	--	
9-79.3	68	About 1" white qtz & calcite at 59'	1035	189.3-197.9 (FewZn & Pb Shines)	8.6	8.6			
			1036	259.7-265	5.3	5.3			
79.3-81	0.8	Med. basic dike							
81-139.8	55	Same as 9-79.3 Some black silicified sections several feet long.	1037	265-270	5.0	5.0			
139.8-141.7	1.9	Med basic gray green dike	1038	270-275	4.7	5.0			
141.7-375	219	Same as other ls sections Partially oxidized ZnS shines from 149-158. Sparsely scattered Scattered ZnS shines from 184 to 196 Ls becoming more brecciated & recemented, partially dolomitized from 230. ZnS shines at 237 and from 253 to 260. 260-265 Good section of honey yellow ZnS in dark brecciated ls with white calcite seams 265-270. Same as 260-265 Dark material partially silicified and some dolomitized. 270-275 Low grade ZnS section Ls whiter & less brecciated after 278 with some darker dolomitized & some silicified short sections both of these becoming more extensive near slate contact with few ZnS shines and more brecciation Some black and white speckled dolomitic material.							
375-380	5'	Black graphitic slate. Bedding at near right angles to direction of hole. Few blobs of pyrite in slate.							

BOYLES BROS.
DRILLING COMPANY

Salt Lake City 4, Utah

I hereby certify that during month of June, 1958 Boyles Bros. Drilling Company, under my supervision, completed 586 feet of diamond drilling on the Scandia Property, Stevens County, Washington on behalf of Grandview Mines, Spokane, Washington.

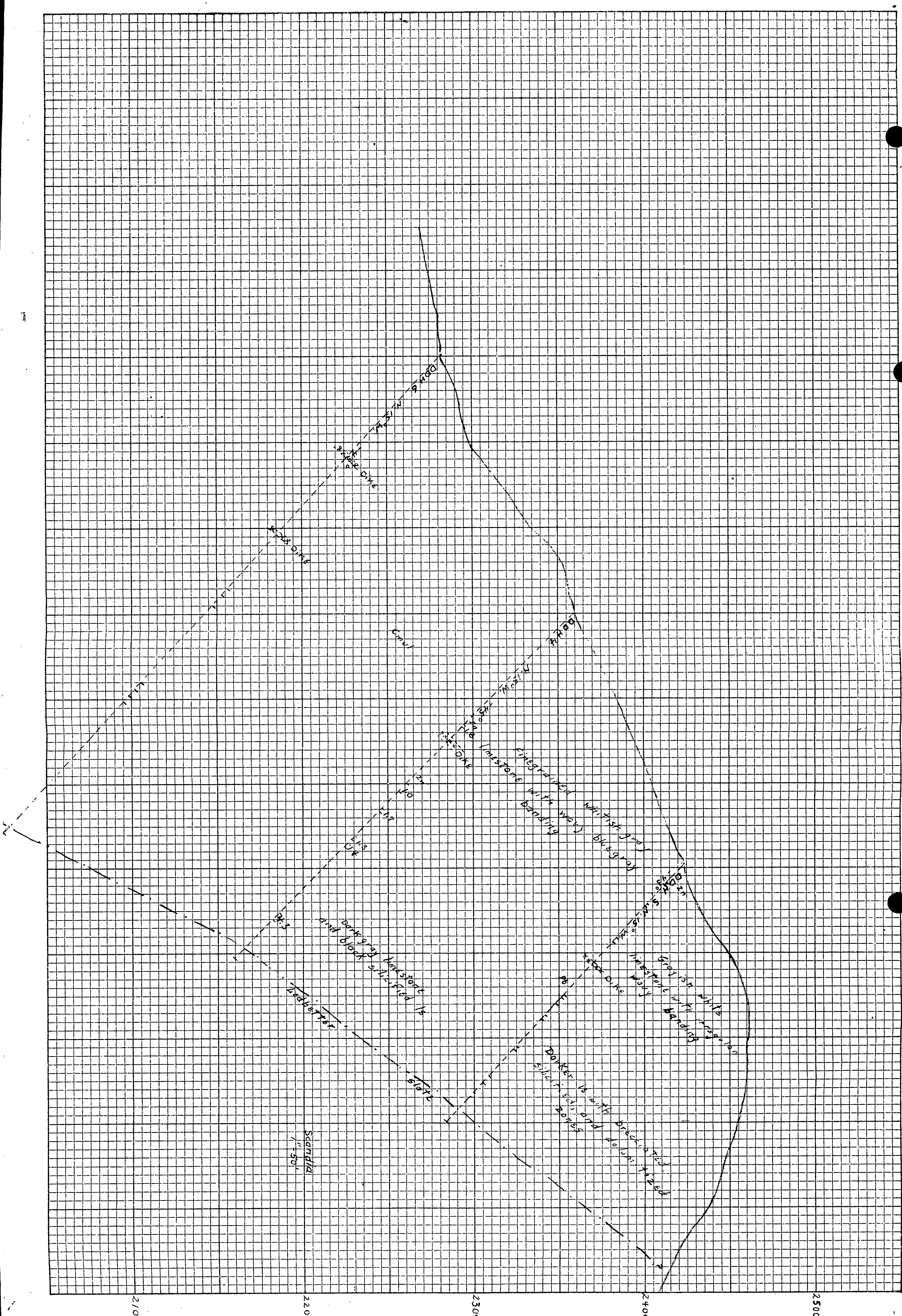
Footages were distributed as follows:

D.D. #5	206 feet
D.D. #6	380 feet
	586 feet

July 9, 1958

Fred Robertson

District Manager, Boyles Bros. Drilling Co.,
Colville, Washington.


DDH 6
DDH 4
DDH 2
Dike
Cmul
Fine grained whitish gray limestone with wavy banding
bluegray
Dark gray limestone ls and black silicified
Ledbetter
Slate
Grayish white limestone with irregular wavy banding
Darker ls with brecciated silicified and dolomitized zones
Scandia
1" = 50'
2100
2200
2300
2400
2500

EXTRA COPY
D M E A
RECEIVED JUL 21 1958

DATE	INITIALS	CODE

rd Form No. 1034a—Revised
Form prescribed by
Comptroller General, U. S.
September 7, 1950
(Reg. No. 51, Supp. No. 11)

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSO

D. O. Vou. No. .....

Bu. Vou. No. 1903

U. S. .....
(Department, bureau, or establishment)

Voucher prepared at Spokane 11/5/56
(Give place and date)

THE UNITED STATES, Dr., *Payee's Account No.* Idm-E60

To Grandview Mines, Inc.
(Payee)

310 Radio Central Bldg., Spokane 4, Wash.
(Address) (City) (State)

PAID BY
Dee Klug.
Berty
(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.
	Aug. & Sept. 1956	Balance withheld when payment was made on voucher #1897 - 10/22/56				100.	00
		Final Payment					
PAYMENT: Complete ☐ Partial ☐ Final ☐		Use continuation sheet(s) if necessary					

Shipped from to Weight Government B/L No. Total 100.00

(Payee must NOT use this space)

Differences .....

Account verified; correct for 100.00

(Signature or initials) M. A.

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 $..... } on Treasurer of the United States in favor of payee named above.
{ Cash, $....., on ....., 19.....

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

RECEIVED
OCT 30 1956

1201 N. Division St.
Spokane 2, Washington
October 22, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: M. R. Lickes, Mining Engineer, Bureau of Mines

Subject: Final inspection, Docket No. DMEA-325 (zinc), Scandia Mining Group, Grandview Mines assignee, Stevens County, Washington, Contract No. Idm-E60

Final inspection of the subject property was made on October 17, 1956.

The following footages were drilled:

DDH #1	219.6 feet
DDH #2	416.0 "
DDH #3	320.0 "
DDH #4	284.0 "
Total	1,239.6 feet

No core was available from mineralized horizons because it had been taken by the company for assay. Hole No. 1 was blank; ore horizons in the other holes assayed as high as 5 feet of 11.3 percent zinc with no lead reported in any assay.

According to the Operator's final report, "If similar ore intersections can be obtained by additional drilling below and around the drill holes already completed, a zinc ore body of substantial tonnage might be found to occur here."

Certification of discovery will be recommended.

M. R. Lickes

M. R. Lickes

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Turner
Docket
Lickes

DMEA Field Team, Region I, NW District October 24, 1956

Certifying Officer, Region I

RECEIVED OCT 29 1956

Docket No. DMEA 325, Contract No. Idm-860, Grandview Mine
Monthly operating report for August and September 1956.

The subject voucher has been processed and forwarded to the disbursing officer for payment.

A disallowance of $1.54 has been made from the drilling costs claimed by the operator to bring the approved costs to $8,218.00. This is in accordance with the contract which calls for 1174 feet of diamond drilling at $7.00 per foot.

The project work has been completed and this will be the final MF-104 submitted. We are withholding a portion of the Government's contribution to project costs until an audit of the Operator's records can be made by a representative of the Contract Administration and Audit Division, DMEA. This is standard procedure for all contracts. The amount being withheld is $100.00.

Myrtle Purdy

cc: DMEA (2)
USGS (2)
Wash. (2)
AD
MRL

Form MF-194 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED
OCT 29 1956

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

Month of August & September 1956 Docket No. DMEA 325 Contract No. DMI-E60

Operator's Name Grandview Mines Minerals Zn-Pb

Address 310 Radio Central Bldg., Spokane 4, Washington

Contract Amount, $ 8,219.54 / 29215.00 Government Participation: 50 % Amount, $ ~~4,109.77~~ 14630.00

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:				11/2/56		11/1/56
Drilling	$8,219.54	None	$8,219.54	8218.00	— o —	8218.00
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Prior Contract					21034.39	21034.39
TOTALS	$8,219.54	None	$8,219.54	8218.00	21034.39	29252.39

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

Date 10/1/56 *Payee Grandview Mines

Per _____ Title President

*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)

Approved 4109.00
100.00
4009.00

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

$ 4009.00

Signature MEP
(Authorized Certifying Officer)

Date 10/22/56 Vou. No. 1897
(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. E60 in accordance with the terms of the contract.

Signature /S/ M. R. Ruckles Title Mining Engr. Date 10/19/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Wm G Agnew Title Acting Exec. Date 10/22/56

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
OCT 29 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August & September 1956 Docket No. DMEA 325 Contract No. I D 11-E60

Operator's Name Grandview Mines Minerals Zn-Pb

Address 310 Radio Central Bldg., Spokane 4, Washington

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								
Raising								
Shafts								
Winzes								
Drilling: Core	foot	$8,219.54	1174	$8,219.54	1174	$7.00		
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		~~$8,219.54~~ 8218.00	1174	~~$8,219.54~~ 8218.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Prior Contract				21034.39				
Total Costs		8218.00		29252.39				

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 10/1/56 Operator Grandview Mines

Per _____ Title President

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/ M. R. Lickes

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.

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GPO 872894

BOYLES BROS.
DRILLING COMPANY

Salt Lake City 4, Utah

RECEIVED
OCT 29 1956

I hereby certify that during the months of August and September, 1956 Boyles Bros. Drilling Company, under my supervision, completed in excess of 1174 feet of diamond drilling on the Scandia Property, Stevens County, Washington on behalf of Grandview Mines, Spokane, Washington.

Mobilization at the drill site was begun on July 27.

Footages were distributed as follows:

D.D.#1	219.6	feet
D.D.#2	416.0	"
D.D.#3	320.0	"
D.D.#4	284.0	"
	1239.6	

September 28, 1956

W. J. Francis

Foreman, Boyles Bros. Drilling Co.,
Northport, Washington.

Narrative Report on Diamond Drilling of Scandia D.D.Holes #1 to #4, DMEA Docket No. 325, Contract No. IDM-E60, July 27, 1956 to September 16, 1956.

Laying of pipeline by Boyles Bros. was begun on July 27 on the Scandia property. About 3000' of pipeline and a very steep slope made the setting up process very slow and actual drilling was begun on Scandia D.D. Hole No. 2 on August 7. D.D.Hole #4 was completed and the project concluded on September 17 after 1239.6 feet of drilling had been done.

The first hole, D.D.#2, was drilled in limestone at -60°, N.30°E. to crosscut the known ore zone at about right angles to its strike as observed in the tunnel and incline (see logs and sketches). Some ZnS mineralization was encountered from about 150 to 400 feet in the hole with the best intersections within about 50' of the contact of the slate and limestone which was crossed at 408'. The hole was stopped in slate at 416'. Best mineralization was encountered at 359.0-364.0 feet with 5.8%Zn; 364-374 feet with 2.4% Zn, and 395.0-400.8 feet with 5.6% Zn. Scattered PbS shines were also observed in some of the core.

Information obtained from D.D.#2 showed that mineralization was not confined to the zone on which the previous work had been done, and, together with surface indications, suggested that the general strike of the formation was probably somewhat to the north of east and the dip southeast. Later holes were therefor drilled in north and northwesterly directions in an attempt to get a more nearly right angled intersection of the ore zones.

D.D.#1, drilled at -60°, N.15°W. from the same location as #2, reached the slate contact at 210 feet, much sooner than expected. A zone of dark colored silicified limestone and brecciated recemented limestone was encountered in this hole the same as in the mineralized part of D.D.#2 but the only mineralization was a few ZnS and pyrite shines. The slate apparently is offset to the south by a fault between #1 and #2.

D.D.#3 was drilled from 137'E. and 82' below #1 & #2 at -45°N. The hole was collared in soft whitish gray limestone with wavy blue gray banding, as were all of the other holes. At about 75' black chert, and darker colored brecciated and recemented limestone was encountered and continued to the slate contact at 315'. The hole was stopped at 320'. ZnS mineralization began at about 90' and occurred in varying concentrations to the slate contact. Best intersections were 11.3% Zn at 95.5 to 100.5; 3.2% Zn at 124 to 131.5; 3.9% Zn at 165 to 169; 2.2% Zn from 183 to 198.7; 3.9% Zn from 205.5 to 213.5 and 5.2% Zinc from 280 to 290 feet.

Single narrow dikes intersected in #2, #3, and #4 probably are not the same.

DD#4 was drilled from 175' east and 98' below #3 at -45°, N.15°W. Formations encountered were the same as in the other holes although the silicified zones were closer to the slate contact which occurred at 276.1 feet. The best mineralization in #4 was 4.3% Zn from 247.3 to 252.3 feet.

Overall results of the drilling indicate that the limestone and slate contact and the general bedding strike at about N.75°-80 E and dip about 60° southeast. The

mineralization exposed in the tunnel and incline appears to occur in the upper part stratigraphically of a partially silicified and recemented brecciated zone perhaps averaging about 100' thick overlying Ledbetter slate. The better mineralization found in the drillholes occurs stratigraphically somewhat below the mineralization exposed in the underground workings, generally within about 50' of the slate contact. Most of the ore intersections in the drillholes were between 200 feet and 300 feet vertically below the ore zones exposed in the tunnel indicating that ore mineralization should occur more or less continuously through that vertical range and that it might be generally associated with a partially silicified limestone zone overlying the slate in that area.

If similar ore intersections can be obtained by additional drilling below and around the drill holes already completed a zinc orebody of substantial tonnage might be found to occur here.

DIAMOND DRILL RECORD

Standpipe
Casing 10' BX

Started 7/29/56
Finished 8/25/56
Hole Size AX
Depth 416
% Core Rec. 86

Mine Scandia
Location N E Stevens Co. Washington
ab. 4 mi. S E of Northport
Logged by Eskil Anderson Date 8/26/56
Drilled by Art Schaller (Boyles)

Hole No. 2
Level
Grid
Latitude
Departure
Elevation 2540'
Bearing N. 30° E
Inclination -60°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-10	2.0 BX	Fine grained gray to blue gray ls	1167	165.0-168.5	3.5	3.5	0.0	0.0	0.0
			1168	177.0-179.3	2.3	2.3	0.0	0.0	1.1
10-156.5	125.5	Same ls with only bedding making 30° angle with plane across core. Two 1" black ls bands at 83'. Poor recovery to 37'. Near end of section ls gradually becomes more dark to bluish gray with short black dolomitic sections. Only 7' core from 142 to 156.5. Few narrow calcite seams occur and sparse ZnS shines near 130'.	1169	268.0-271.0	3.0	3.0	0.0	0.0	4.0
			1170	298.0-300.5	2.5	2.5	0.1	0.0	1.6
			1171	302.0-305.0	3.0	2.7	0.1	0.0	4.6
			1172	319.0-320.7	1.7	1.7	0.0	0.0	1.9
			1173	359.0-364.0	5.0	5.0	0.2	0.0	5.8
			1174	364.0-374.0	10.0	10.0	0.0	0.0	2.4
			1175	375.6-379.6	4.0	4.0	0.0	0.0	1.8
			1176	389.0-395.8	6.8	6.8	0.0	0.0	0.5
			1177	395.8-400.8	5.0	5.0	0.0	0.0	5.6
156.5-252	88.0	Black chert sections in the ls made very hard drilling. About 3" white glassy quartz with few ZnS shines at 160.5, and from 166 to 168 with few specks of pyrite also. From about 130' on throughout hole ls often brecciated and recemented, with calcite and quartz seams. Majority of core dark gray to black, and often silicified ls; sparse honey to brown ZnS shines occur almost anywhere. Some dark ls is dolomitized. From 169 to 198 sparse honey colored ZnS shines occur, only approach to commercial grade being in 2" streak at 178'. Occasional graphite partings often at high angles to plane across core to end of hole. ZnS shines at 215' and 243'	1175	PbS shines					
252.-283	26.0	Scattered ZnS shines and pyrite specks to 262'. Seams make angles of 20° to 50° with plane across core and considerable porosity is developed along seams to 262'. Some oxidized minerals in bugholes at 258.5'. At 270' pale green siliceous platy oxidized mineral in bugholes with pyrite.		Short core sections of massive ZnS lost considerable of their bulk by spalling off at ends.					

Form 108 2M 3-53 SHAW & BORDEN CO. 308150

Standpipe
Casing 10' BX

DIAMOND DRILL RECORD

RECEIVED OCT 29 1956

Hole No. 1
Level
Grid
Latitude
Departure
Elevation 2540'
Bearing N.15°W
Inclination -60°

Started 8/27/56
Finished 9/1/56
Hole Size AX
Depth 219.6
% Core Rec. 96.7

Mine Scandia
Location Northport District, Stevens Co.
Northeast Washington
Logged by Eskil Anderson Date 9/2/56
Drilled by Art Schaller (Boyles)

Depth Feet	Feet Core	Lithologic Description	Sample Data						
			No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-141	135	White gray fine grained ls with some wavy dark gray banding, often at near rt angles to direction of hole. Very small seam of light brown ZnS at 31.5. A few bugholes between 10' and 15'. Some brecciated material, solid, composed of light & dark gray particles from about 50', and occasional narrow calcite seams at any angle to hole. Few blobs of fine grained pyrite at 120'.							
141-210	67.3	Dark gray to almost black silicified cherty ls with occasional blobs of pyrite, narrow calcite seams and some lighter gray ls. Few graphite partings. Much of core brecciated & recemented. ZnS shines near 153'. At 177' green stain on parting plane which probably is Ni oxidization minerals.							
210-219.6	9.6	Black slate with thin calcite and pyrite seams and bedding at rt angles to 45° from axis of hole. N. B. Not sampled.							

Form 108 2M 3-58 SHAW & BORDEN CO. 308150

2 (Cont'd)

Standpipe
Casing

DIAMOND DRILL RECORD

RECEIVED OCT 29 1956

Started
Finished
Hole Size
Depth
% Core Rec.

Mine: Scandia Prop.
Location
Logged by — Date
Drilled by

Hole No.
Level
Grid
Latitude
Departure
Elevation
Bearing
Inclination

Depth Feet	Feet Core	Lithologic Description	Sample Data: No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
		From 270.3 to 270.9 good light brown ZnS.							
283-293	10.0	Same is at first part of hole.							
293-327.8	31.2	Same is as 156.5 to 283 with wavy banding from 280' to 300' near right angles to axis of core. Coarse light brown ZnS from 298 to 300 and from 302.5 to 305 with fair ZnS from 303.3 to 304.8. Sparse ZnS and PbS shines to 327.3 with green transparent mineral at 307'. Fair ZnS & PbS from 319.3 to 321.							
327.8-336	2	Med. ultino basic dike. Slightly altered dark gray-green. Poor core recovery crossing dike zone & from 327 to 359.							
336-408	67	Gray and dark gray ls and some black silicified ls, both brecciated and recemented, with calcite and quartz seams. Sparse ZnS shines scattered along core. Pyrite and some PbS shines at ab. 358'. Good ZnS from 359 to 364. ZnS brownish yellow. Fair ZnS from 364 to 374; at ab. 382' and from 389 to 391; from 392 to 393. Fair ZnS from 396 to 399. 8" to 10" inches of high-grade from 399 to 401. From 401 to 408 ls mainly silicified with considerable pyrite.							
408-416	8	Black slate with pyrite specks and white calcite seams containing ZnS. Excellent slate bedding making angles of 15° to 60° with plane across core.							

DIAMOND DRILL RECORD

Standpipe
Casing 5' BX

Started 9/4/56
Finished 9/10/56
Hole Size AX
Depth 320
% Core Rec. 99%

Mine Scandia
Location Northport District, NE
Stevens Co., Wash.
Logged by Eskil Anderson Date 9/12/56
Drilled by Art Schaller (Boyles)

Hole No. 3
Level
Grid
Latitude
Departure
Elevation 2458
Bearing N. 0
Inclination -45

Depth Feet	Feet Core	Lithologic Description
0-74	72.5	Soft light gray and blue gray finely xline ls with wavy dark gray banding. Some brecciated zones with both light and dark gray angular particles often in a black ls matrix. Banding at various angles to core axis, more often making angle of 0° to 45° to plane across core. Thin calcite seams abundant.
74-245	171	Gray and black silicified ls, jasperoid, much brecciated and recemented; with many white calcite seams, some coarsely xline calcite and some quartz. Occasional graphite partings & few particles of pyrite. Light brown ZnS beginning at 91.1 and occurring thereafter in all sections in alternate sparse to fairly strong concentrations; with occasional specks of PbS, best at 223.5-228. Slight oxidation in vugs at 119'9 to 130'; to 130'; leached vugs from 160-162.
245-247.5	2.5	Basic dike. Med. grained, med-gray green.
247.5-315	67.5	Same as 74-245 except less silicification and brecciation and more soft light gray, finely xline, wavy banded ls from dike to 272'. Coarse ZnS shines in last 7' of ls not sampled. Bedding at high angle to core axis near end of ls.
315-320	2.6	Black slate with thin white calcite bands and pyrite. Bedding or cleavage at about right angles to axis of hole. 2.4' core lost going across ls-sl contact zone.

Sample Data

No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
1140	91.1-95.5	4.2	4.4	Nil	Nil	0.5
1141	95.5-100.5	5.0	5.0	0.2	Nil	11.3
1142	100.5-104.5	4.0	4.0	Nil	Nil	Nil
1143	104.5-109	4.5	4.5	Nil	Nil	1.4
1144	109.0-113.5	4.5	4.5	Nil	Nil	0.4
1145	113.5-120	6.5	6.5	0.1	Nil	1.9
1146	120-124	4.0	4.0	Nil	Nil	Nil
1147	124-131.5	7.5	7.5	0.2	Nil	3.2
1148	139.0-145.5	6.5	6.5	Nil	Nil	0.9
1149	157.0-165.0	8.0	8.0	Nil	Nil	0.1
1150	165.0-169.0	4.0	4.0	0.2	Nil	3.9
1151	169.0-174.0	5.0	5.0	Nil	Nil	0.6
1152	174.0-180.2	6.2	6.2	0.1	Nil	2.1
1153	180.2-183.0	2.8	2.8	Nil	Nil	Nil
1154	183.0-194.0	11.0	11.0	Nil	Nil	2.3
1155	194.0-198.7	4.7	4.7	Nil	Nil	2.2
1156	198.7-205.5	6.8	6.8	Nil	Nil	0.4
1157	205.5-213.5	8.0	8.0	Nil	Nil	3.9
1158	213.5-223.5	10.0	10.0	Nil	Nil	Nil
1159	223.5-228.0	4.5	4.5	Nil	Nil	1.4
1160	228.0-234.6	6.6	6.6	Nil	Nil	Nil
1161	234.6-240.6	6.0	6.0	Nil	Nil	3.3
1162	240.6-245.0	4.4	4.4	0.2	Nil	2.5
1163	247.5-249.6	2.1	2.1	Nil	Nil	2.1
1164	272.6-273.9	1.3	1.3	Nil	Nil	1.6
1165	280.0-290.0	10.0	10.0	0.2	Nil	5.2
1166	304.0-309.0	5.0	5.0	Nil	Nil	0.2

1143 PbS specks
1145 PbS-few coarse crystals
1159 PbS specks
1164 PbS spots

In high grade sections, massive ZnS lost by chipping off ends of short pieces of core.

DIAMOND DRILL RECORD

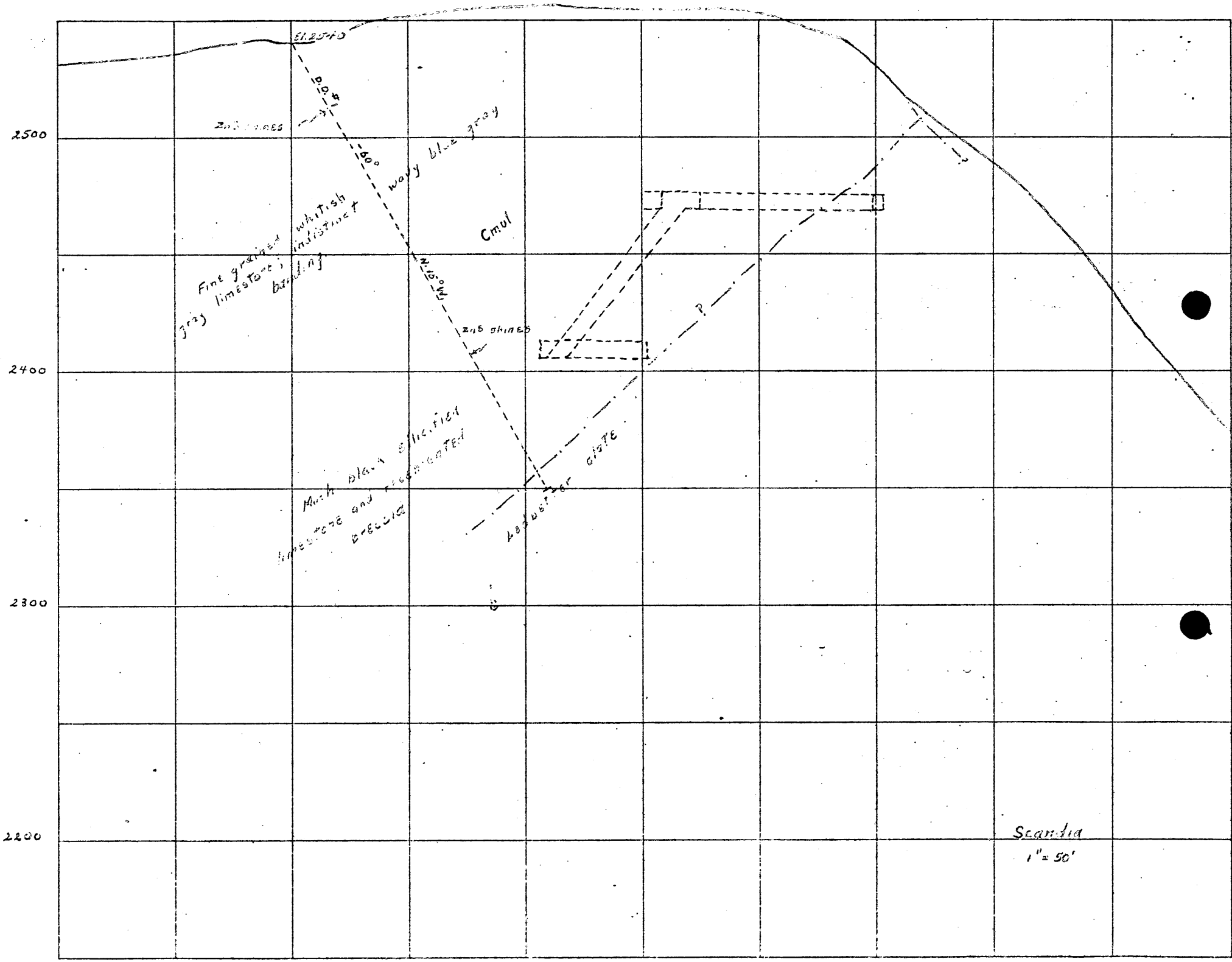
Standpipe
Casing 10'

Started 9/12/56
Finished 9/16/56
Hole Size AX
Depth 284
% Core Rec. 96

Mine Scandia
Location N E Stevens Co., Washington, about 5 Mi. S E of Northport
Logged by Eskil Anderson Date
Drilled by Nyberg & Chidester (Boyles)

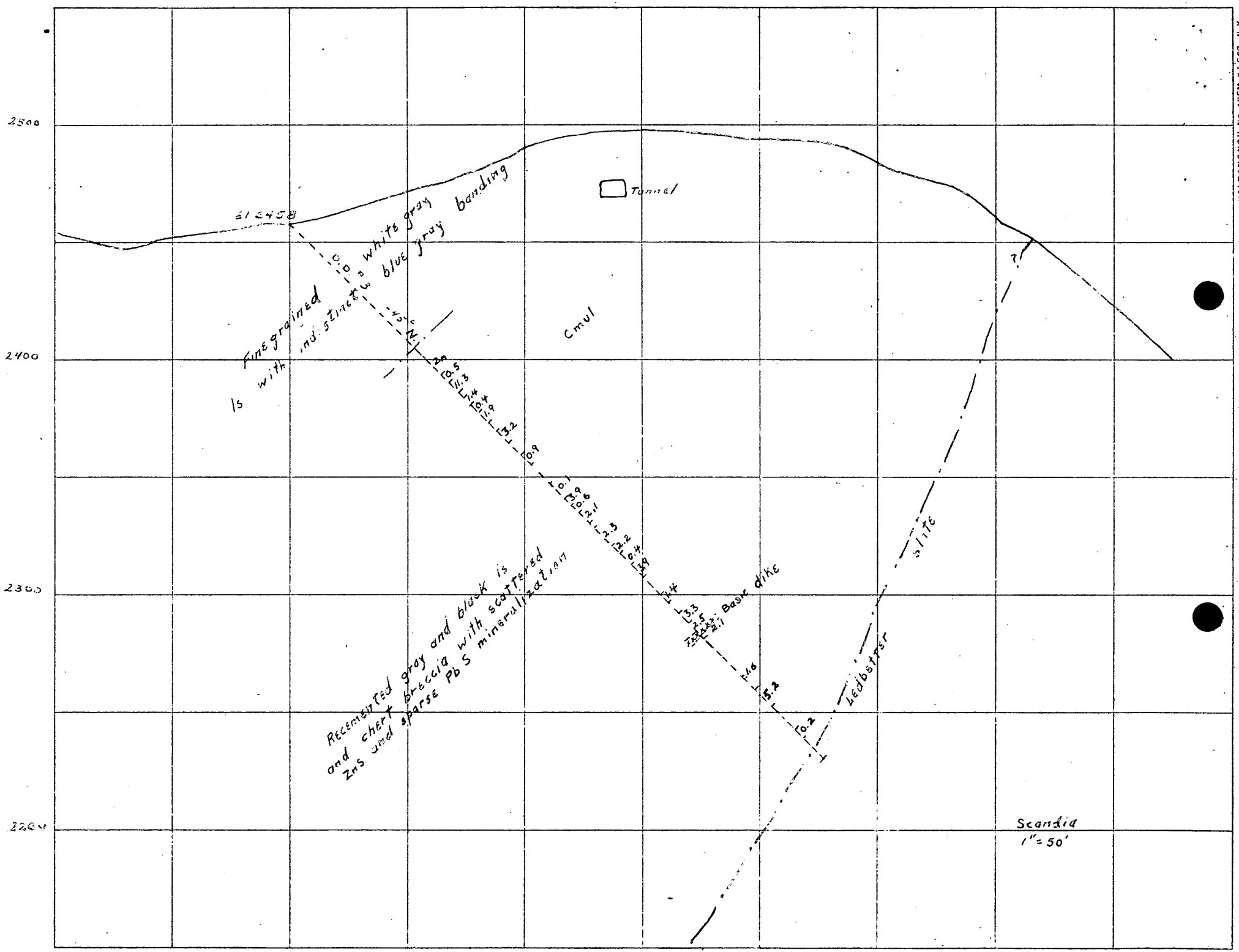
Hole No. 4
Level
Grid
Latitude
Departure
Elevation 2360
Bearing N.15 W.
Inclination -45°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-102	10'BX 90'AX	Soft white gray finely xline ls with indistinct wavy blue gray banding. Few inch sections of black dolomitic ls and of calcite. Few coarse ZnS shines at 11.5' " 48.0'		92.8-93.8	1.0	1.0			1.8
				140.0-146.3	6.3	5.0			1.0
				151.8-156.8	5.0	5.0			0.0
				160.5-162.7	2.2	2.2			1.7
				183.2-186.2	3.0	3.0			1.3
				189.0-192.0	3.0	3.0			1.4
				247.3-252.3	5.0	4.0			4.3
102.0-106.0	1.8	Med. grained, med. basic dike. Lost 2.2' core crossing dike							
106.0-276.1	160.0	Same as 0-102. Ls brecciated and recemented from 131 to 140. Some other breccia zones. Sparse F_eO_x along few bugholes. Few specks of pyrite; graphite partings now and then. 4.0' core lost from 131 to 145 Scattered ZnS shines from 126' on with coarsely xline ZnS in narrow bands or in spots too far apart to make ore. 1' fair ZnS from 196.5-197.5 Ls becomes darker gray after 220' with occasional narrow white calcite seams and black silicified ls becoming more and more abundant towards slate contact. Ends of massive ZnS pes. broken off, ground off, and lost between 247.3-252.3							
276.1-284	10.0	Black slate, cleavage almost at rt angles to hole, with narrow white calcite seams containing coarse pyrite.							



"ALBANENE" No. 196M K&E CO., N.Y.

"ALBANENE" NO. 195M K&E CO., N.Y.
REG. U.S. PAT. OFF.



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REG. U.S. PAT. OFF.

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REG. U.S. PAT. OFF.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
SEP 21 1956

September 14, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: Donald F. Kellum, Geologist, U. S. Geological Survey, and M. R. Lickes, Mining Engineer, U. S. Bureau of Mines

Subject: Interim inspection report, Docket No. DMEA-325 (Zinc), Grandview Mines (Assignee of Nasburg, Hallenus, et al.), Scandia Mine, Stevens County, Washington, Contract No. Idm-E60.

On Thursday, September 6, 1956, M. R. Lickes of the Bureau of Mines and I made an interim inspection of work at the Scandia property. The current exploration consists of drilling four surface diamond drill holes in lieu of completing winzing and drifting from DMEA workings. The mineralized zone, partially explored by DMEA underground work, occurs in Cambrian Metaline limestone which overlies Ordovician Ledbetter slate either as a thrust plate or as the overturned limb of a recumbent syncline. Drilling is testing the limestone for mineralization at depths below the workings.

Prior to drilling, it was believed that the proposed location of DDH 1 was not warranted; however, initial drilling in DDH 2 showed that the slate contact would be sufficiently deep to warrant the location of DDH 1. Verbal authorization for this was given the Operator in a discussion at the Spokane office on August 23, 1956.

At the time of this inspection two drillers from Boyles Brothers, drilling contractors, were at the property. Work is being done on a two-shift basis.

DDH's 1 and 2 have been completed and, according to the drill crew, had intersected the slate contact at distances from the collars of about 215 and 410 feet, respectively. Core from these holes had been removed to Deep Creek and was not available for examination on this inspection. The drill crew reported that DDH 2 intersected a sparsely mineralized zone containing some sphalerite shines; DDH 1 was barren. Both holes were collared at the same location about 190 feet S. 60° E. and 70 feet higher than the DMEA adit portal. DDH 2 was directed at -60° on approximately a N. 25 E.

bearing, DDH 1 at about -60° on approximately a N. 15 W. bearing. DDH 3, inclined -60° in the direction of the DMEA adit portal, is located about 95 feet S. 15 W. and 10 feet lower than the adit portal. Drilling had progressed to 147 feet and had intersected a zone containing sparsely disseminated sphalerate between 93 and 133 feet.

After the completion of this hole and DDH 4 the contract work will be completed, probably by the 21st of September.

Distribution:
DMEA(Orig.&3)
USBM(2)
USBM(AD)
Docket
Kellum

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
August 9, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: M. R. Lickes, Mining Engineer, Bureau of Mines

Subject: Interim inspection, Docket No. DMEA-325 (zinc), Scandia Mine, Grandview Mines, assignee, Stevens County, Washington, Contract No. Idm-E60

An inspection of the Scandia mine was made on August 8. A diamond driller and helper were present at the time of the inspection. They are employees of Boyles Bros., diamond drillers under contract to Grandview Mines.

Drilling was started on the morning of August 8 and when I arrived at the property at 2:00 P.M. they were completing 31 feet of drilling on the first hole, all in barren limestone. Apparently 2 feet of soil was included in the 31 feet reported because only 29 feet were marked in the core box. Recovery is 57% at this distance.

The hole is being drilled N. 25° E. at minus 60° at a point that is approximately 220 feet S. 65° W. of the adit portal.

Water for the drill is pumped from Deep Creek to a tank on the adit level elevation through 2800 feet of pipe. The drill is supplied by a small circulating pump.

M. R. Lickes
M. R. Lickes

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Lickes

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AUG 27 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
May 28, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: M. R. Lickes, Mining Engineer, Bureau of Mines

Subject: Final inspection, Docket No. DMEA-325 (zinc), Scandia Mining Group, Scandia Mine, Stevens County, Washington, Contract No. Idm-E60

The Scandia property was visited on May 24, 1956, to complete a final inspection of the property. No work has been done since the inspection by Willard Puffett, USGS, and Webster Anderson, USBM, reported in their memorandum dated September 13, 1954. Because there is water in the bottom of the winze, no further inspection of the 100-level was made and the measurements reported by Puffett and Anderson - 101 feet of drifting - are accepted as the final 100-level footage. This is the amount claimed by the Operator.

In addition to this drifting, contract work at the Scandia comprises 208 feet of drifting on the adit level and 98.5 feet of sinking on the "A" occurrence, plus 22.5 feet of sinking on the "B" occurrence.

In addition to the equipment reported in my inspection report of August 20, 1955, there is stored in a small shed the following:

1 Swedish drill and jackleg
1 Tecalemit grease gun
100' (2 pieces) 1-inch rubber hose with fittings
6' 3/4-inch rubber hose and oiler
6' 1/2-inch rubber hose with fittings
200' 5/8-inch wire rope (new)
50' 1/2-inch wire rope (used)
Miscellaneous small tools, pipe fittings, etc.

Orig. & 3 cys - Wash.
USGS (2)
DMEA
AD
Turner
MRL/he

M. R. Lickes
M. R. Lickes

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~

RECEIVED
OCT 10 1955

1201 N. Division St.
Spokane 2, Washington
September 15, 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: M. R. Lickes, Mining Engineer, U. S. Bureau of Mines

Subject: Inspection, Scandia property, Docket No. DMEA 325 (zinc)
Stevens County, Washington, Contract No. Idm-E60

An inspection of the Scandia property was made on August 30, 1955. Because it was probable that this would be the final inspection of the property, a list of equipment and supplies on the premises was made. The equipment in which the Government has an equity will be established when an audit is made and early charges to "Equipment Purchased" substantiated by invoice.

Following is a list of equipment at the property on August 30:

Mine car and platform	14 pieces drill steel
Mucking machine	58 ft. 1½" pipe (not installed)
Side dump car	55 ft. ½" pipe (not installed)
Worthington compressor	270 ft. 1½" pipe (installed)
Air receiver	250 ft. ½" pipe (installed)
2 fabric gas tanks	170 ft. 16# rail (installed)
3 20-gal. water tanks	340 ft. 12# rail (installed)
hand pump	
ore bucket	
10" snatch block	

Additional equipment is stored in a padlocked shed. This could not be listed because it was impossible to determine what it includes.

In a telephone conversation with Raleigh Hallenius, Operator, on August 31, I was advised that Grandview Mines is interested intaking over the Scandia property. He advised that it is probable that Grandview will want to enlarge the contract to explore the property further.

Orig. & 3 cys - Wash.
USGS (2)
DMEA
AD
Turner
MRL/he

M. R. Lickes

M. R. Lickes

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

Budget Bureau No. 42-R1036.5

RECEIVED AUG 13 1956

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

Month of September, 1954 Docket No. DMEA 325 Contract No. IDM E 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-Ninth Avenue, Spokane, Wash.
Contract Amount, $21,700.00 Government Participation: ____% Amount, $10,850.00

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						
Bulldozing						
Crosscutting						
Drifting Off Winze	$735.00	$2800.00	$3535.00	735.00	2800.00	3535.00
		9850.00	9850.00		9850.00	9850.00
(2) Labor and Supervision:						
Labor		3718.80	3718.80		3718.80	3698.80
Supervision		150.00	150.00		150.00	150.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23	24.23	71.94	24.23	96.17
Explosives		900.32	900.32	.20	900.32	900.52
~~Pipe~~ ~~Freight~~ Pipe		12.56	12.56	34.24	12.56	46.80
Track				137.93	—0—	137.93
Power		641.29	641.29	[illegible]	641.29	—0—
Other ~~Carbide~~ Misc.		154.80	154.80	907.20	154.80	1062.00
(4) Operating Equipment:						
Rental		912.04	912.04	[illegible]	912.04	822.04
Purchase		632.39	632.39	[illegible]	632.39	232.91
Depreciation		250.00	250.00	90.00	252.00	342.00
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		160.78	160.78	115.94	160.78	45.04
Sampling and Analysis				5.00	—0—	5.00
Payroll Taxes		54.00	54.00	[illegible]	54.00	32.68
Liability Insurance				37.50	—0—	37.50
Bookkeeping		20.00	20.00	20.00	20.00	40.00
O. A. B.		22.25	22.25	[illegible]	22.25	—0—
(8) Contingencies (specify):						
TOTALS	$735.00	$20,305.46	$21,040.46	728.93	20305.46	21034.39

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Oct. 4, 1954 *Payee Scandia Mining
By Raleigh Hallenius Title Partner

*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:

$ 364.46

Signature MGP
(Authorized Certifying Officer)

Date 8-8-56 Vou. No. 1836
(See other side)

100% Government participation
Sent to Washington 10/14/54

as quoted to audit report

(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. E60 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Engr. Date 10-11-54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weissenborn Title Exec Officer Date 8-7-56

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
Approval expires 6-30-53.

Department of the Interior
Minerals Administration
RECEIVED
OCT 18 1954

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

Month of [illegible] 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible]
Minerals [illegible]
Address [illegible]

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				[illegible]				
Crosscutting								
Raising [illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]		
Shafts				[illegible]				
Winzes	[illegible]			[illegible]	[illegible]	[illegible]		
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		[illegible]	21	[illegible]				Total Costs Authorized by Contract
Operating Equipment Purchased				[illegible]				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		[illegible]		[illegible]				

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 [illegible] Operator [illegible]

Per Raleigh Hollenius Title [illegible]

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)

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.

10/14/54

Work on this project has been suspended and payment on this voucher is being held up until word is received from the operator regarding his plans for completion of the project.

GPO 83-38475

OCT 18 19

NARRATIVE OF SCANDIA PROJECT

October 4, 1954

DOCKET NO: DMEA 325

COMMODITY: Zinc

CONTRACT NO: IDME 60

During September we continued the drift in a Southeasterly direction for 21 feet. The formation continued about the same as the previous 50 feet. We cross cut several fairly large stringers of zinc which were at right angle to the drift. The zinc content was quite encouraging the entire distance to the face.

21' at $35.00 per foot - - - - - - - - - - Total $735.00

SCANDIA MINING GROUP
E.32 Twenty-Ninth Avenue
Spokane, Washington

Raleigh Hellewins
Partner

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

September 13, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey and Webster S. Anderson, Engineer, U. S. Bureau of Mines

Subject: Docket No. DMEA 325X (zinc), Scandia Prospect, Stevens County, Washington, Contract No. Idm-E60

The Scandia prospect was inspected on Wednesday morning, September 8, 1954, by Willard Puffett and Webster Anderson. Mr. Oliver Harris and Mr. John Harris were at the property. The new work, completed since the last inspection on August 5, was mapped. A copy of the map of the workings is attached to this report.

The Harris brothers were removing the last few car loads of broken rock from the drift. Earlier this summer they had obtained a contract from the owners of the Scandia property to drive 100 feet of crosscut and drift from the bottom of the winze. They had completed 101 feet and, thus, were preparing to remove their equipment from the mine.

The outline and geology of the lower level workings are shown on the accompanying map. They had turned from drifting due west to follow a narrow calcite stringer containing sphalerite to the northwest. This calcite stringer did not persist far along strike, and in continuing the drifting to the northwest, black slate was encountered. The bedding in the slate strikes N. 70° E. and dips about 30 degrees south. Very prominent joints in the slate strike N. 22° W. and dip 88 degrees south. The contact between the gray limestone and the slate is marked by a very tight fault which strikes N. 30° E. and dips nearly vertical. The drag in the slate along the fault suggests that the limestone has been downdropped along the fault. Just to the northwest of the fault, there are scattered nodules of pyrite in the slate. These nodules average about three-fourth inch in diameter and are aligned somewhat parallel to the bedding.

After intersecting the slate, the Harris brothers drove a crosscut to the northeast, starting 32 feet back from the face of the drift. In this drift they intersected three strong calcite veins containing high-grade sphalerite. It appears that an ore zone at least eight feet thick has been exposed in this crosscut. The ore along the calcite veins is estimated to contain nearly 20 percent zinc. Between the calcite veins there are many short and

variously oriented stringers of sphalerite. It is estimated that the ore zone will assay about eight percent zinc over a width of eight feet. One sample was cut across the zone, but no assays have been received.

It is difficult to correlate the ore zone exposed in the northeast crosscut with the ore zone on which the winze was sunk. A section through the winze is shown on the accompanying map. On this section it can be seen that the ore in the upper part of the winze is dipping quite flatly and should extend to the southwest portion of the lower workings. There are two narrow mud seams in the winze that may correlate with the veins in the northeast crosscut.

Evidence exposed to date in the underground workings suggest that the mineralized fractures are paralleling the major joint system in the limestone. These joints in general strike northerly and turn gradually to the northwest as they approach the slate-limestone contact. It also appears that there may be many mineralized fractures sub-parallel to each other, and further drifting and crosscutting may be successful in exposing many more mineralized fractures.

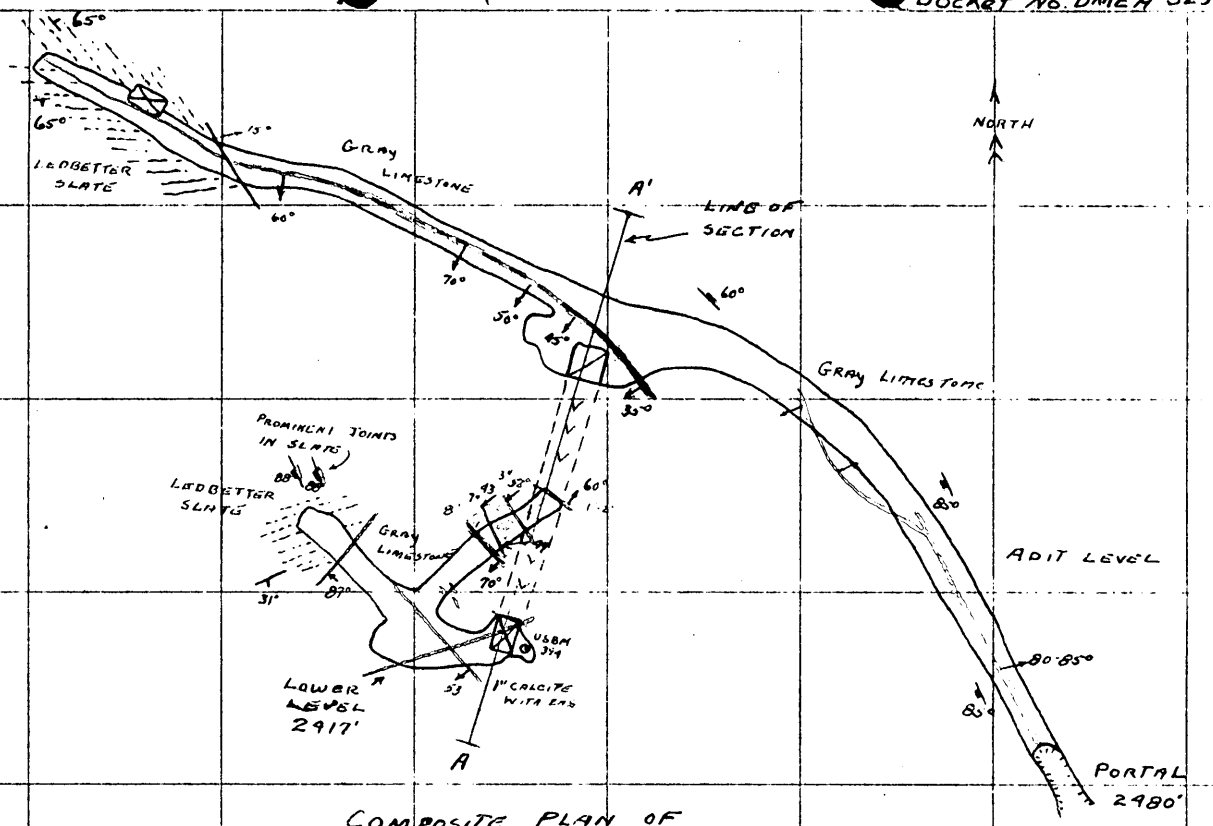
According to the contract, 100 more feet of drifting is allowed on the level at the bottom of the winze. Drifting to the east to intersect the southeastern extension of the ore zone found in the northeast drift appears warranted. Once this zone is intersected, the drift can follow it to the southeast and crosscuts can be driven, both to the northeast and the southwest to search for possible parallel zones.

According to the Harris brothers, the owners of the Scandia have no funds to continue work this season, and have made no arrangements to do further work. This is unfortunate as it appears now that the additional 100 feet of drifting allowed could more definitely outline the ore zone on the lower level and supply much needed information as to the possibilities of this property as a potential source of zinc. Sufficient information has been obtained on which to base a Certification of Discovery, but insufficient information has been obtained on which to base much of an estimate regarding ore reserves to be assigned to the property.

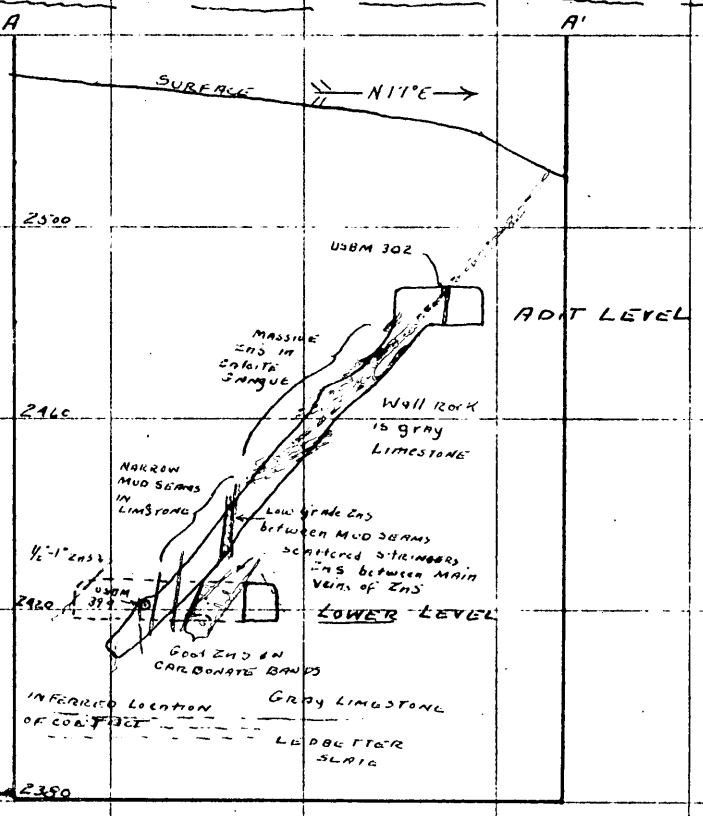
Enclosur e

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett

DOCKET NO. DMEA 325x (ZINC)



COMPOSITE PLAN OF
SCANDIA MINE
Stevens County, Washington
1" = 40'



VERTICAL SECTION A-A'

"ALBANENE" NO. 100M K&E CO., N.Y.
REG. U.S. PAT. OFF.

Payment released as we have received another MF-104 and are holding up payment on it. Project inactive.

MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
RECEIVED
SEP 9 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1954 Docket No. DMEA 325 Contract No. DMEA 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue-Spokane, Wash.
Contract Amount, $21,700.00 Government Participation: 50 % Amount, $10,850.00

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:						Betty
Drilling						
Bulldozing						
Crosscutting						
Drifting off Winze	$1995.00	$805.00	$2800.00	1995.00	805.00	2800.00
Sinking Winze		9850.00	9850.00		9850.00	9850.00
(2) Labor and Supervision:						
Labor		3718.80	3718.80		3718.80	3718.80
~~Supervision~~ Surveying		150.00	150.00		150.00	150.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23	24.23		24.23	24.23
Explosives		900.32	900.32		900.32	900.32
~~Exp~~ Freight		12.56	12.56		12.56	12.56
Track						
Power		641.29	641.29		641.29	641.29
Other (Carbide)		154.80	154.80		154.80	154.80
(4) Operating Equipment:						
Rental		912.04	912.04		912.04	912.04
Purchase		632.39	632.39		632.39	632.39
Depreciation		250.00	250.00		250.00	250.00
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		160.78	160.78		160.78	160.78
Sampling and Analysis						
Payroll Taxes		54.00	54.00		54.00	54.00
Liability Insurance						
Bookkeeping		20.00	20.00		20.00	20.00
O.A.B.		22.25	22.25		22.25	22.25
(8) Contingencies (specify):						
TOTALS	$1995.00	$18,310.46	$20,305.46	1995.00	18310.46	20305.46

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 9-2-54 *Payee Scandia Mining Group
Per Raleigh Hellerich Title Partner

*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:
$ 997.50
Signature MGP
(Authorized Certifying Officer)
Date 10/22/54 Vou. No. 1328
(See other side)

one 104a and narrative sent to wash. 9/15/54

(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. E60 in accordance with the terms of the contract.

Signature 19 Webster S Anderson Title Mining Engr Date 9/13/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Stephen W Zoldok Title Mining Engr Date 10/19/54

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 83-38476

2

Form MF-704A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 24 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1954 Docket No. DMEA 325 Contract No. I D M E 60

Operator's Name Scandia Mining Group Minerals Zinc

Address E. 32 Twenty-ninth Avenue-Spokane, Wash.

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				$ 5369.07				
Crosscutting								
~~Raising~~ Drifting off Winze	Ft.	$1995.00	57	2600.00	80	35.00		
Shafts				1654.00				
Winzes	Ft.			9850.00	98½	100.00		
Drilling: Core								9/29/54. J.W.A.
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$1995.00	57	$19,673.07				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				632.39				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1995.00		$20,305.46				

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 9-2-54 Operator Scandia Mining Group

Per Raleigh Hallenius Title Partner

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 83-38475

2

NARRATIVE OF SCANDIA PROJECT

September 2, 1954

DOCKET NO: DMEA 325

COMMODITY: Zinc

CONTRACT NO: IDME 60

During August we drifted from the bottom of the winze in a Northwesterly direction following a small stringer of zinc for about 30 feet until we encountered slate. We then drifted in a Southeasterly direction from the winze for about 50 feet making a total of 80 feet. Since going in the Southeasterly direction we have found Calcite, Sphalerite and Smithsonite. The zinc shows in small stringers. The rock is not so dark and looks much more favorable for ore than it did in the Northwest.

57' at $35.00 per foot - - - - - - Total $1995.00

SCANDIA MINING GROUP
E. 32 Twenty-ninth Avenue
Spokane, Washington

Raleigh Hellerness
Partner

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 6, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-325 (zinc), Routine Inspection Report, Scandia Mine, Stevens County, Washington, Contract No. Idm-E60.

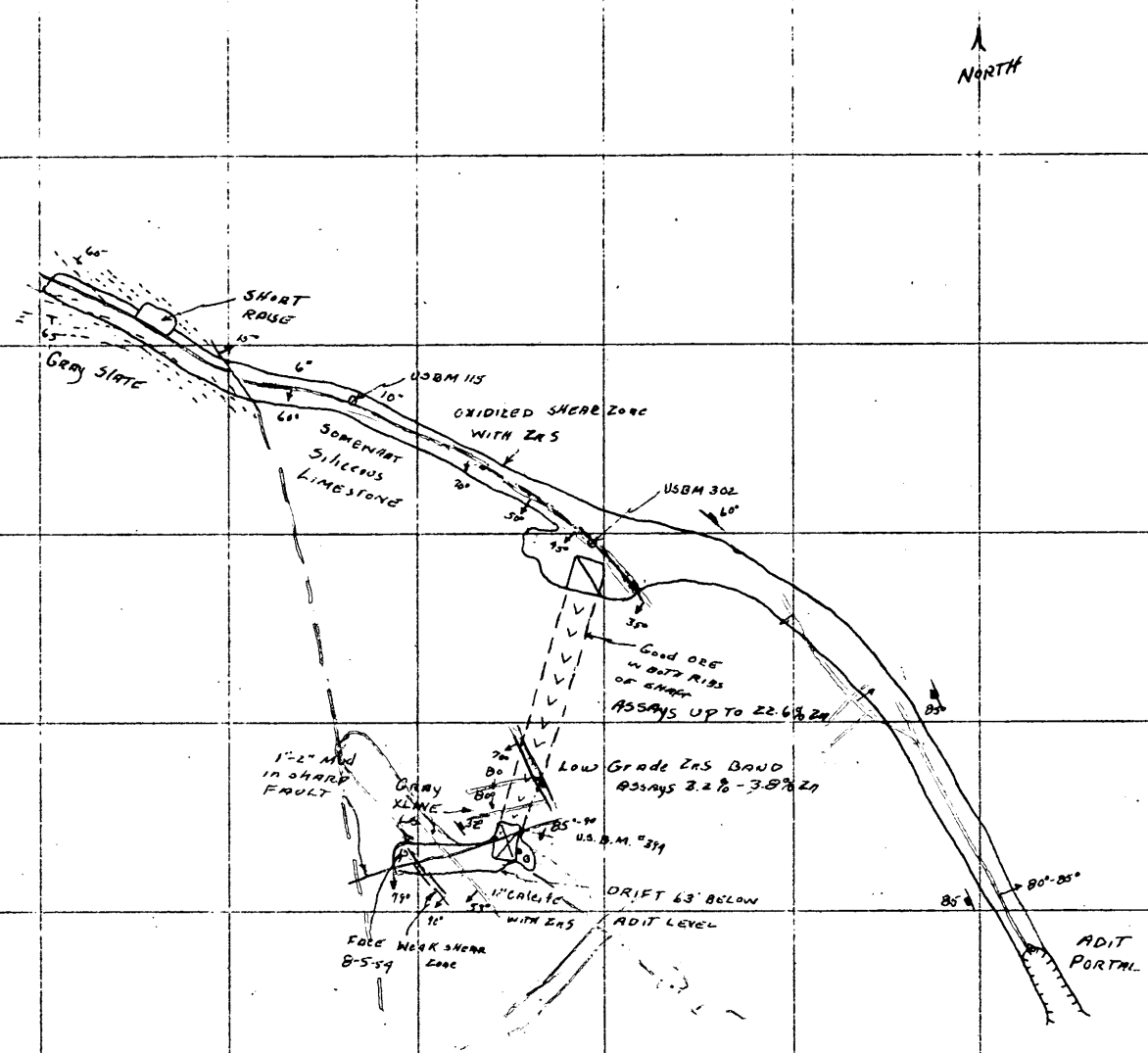
On Thursday morning, August 5, 1954, Webster S. Anderson, Engineer, Bureau of Mines, and I made a routine inspection of the Scandia mine. Mr. Oliver Harris and his brother, John, were at the property.

The shaft station near the bottom of the shaft had been completed, and the drift to the west had been advanced 20 feet. The drift walls are gray crystalline limestone, in which a few thin stringers of sphalerite and calcite occur. A thin mud seam traverses the length of the drift. One stringer of calcite with sphalerite strikes N. 40° W. and dips 53° S. This stringer can be traced across the drift and appears to be more persistent than the other thin stringers. As shown on the accompanying map, this band of sphalerite occurs in the right location to be correlated with the downward extension of the mineralized shear exposed in the upper part of the shaft and in the adit. The operator has been advised to turn the drift to a northwest direction to explore the northwest extension of the zinc-bearing band.

Attachment 1

Distribution:
DMEA (orig & 3)
USBM (2)
Docket
Puffett

DOCKET No. DMEA 325X (ZINC)



COMPOSITE OF SCANDIA MINE

STEVENS COUNTY, WASHINGTON

1" = 40'

"ALBANENE" NO. 1100M K&E CO. N.Y. REG. U.S. PAT. OFF.

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

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

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

Month of July, 1954 Docket No. DMEA 325 Contract No. I 5 M 3 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Wash.
Contract Amount, $21,700.00 Government Participation: 50 % Amount, $10,850.00

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						
Bulldozing						
Crosscutting						
Drifting	8805.00	None	8805.00	805.00	— 0 —	805.00
Sinking Winze	None	9850.00	9850.00		9850.00	9850.00
(2) Labor and Supervision:						
Labor		3718.80	3718.80		3718.80	3718.80
~~Supervision~~ Surveying		150.00	150.00		150.00	150.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23	24.23		24.23	24.23
Explosives		900.32	900.32		900.32	900.32
~~Pipe~~ Freight		12.56	12.56		12.56	12.56
Track						
Power		641.29	641.29		641.29	641.29
Other (Carbide)		154.80	154.80		154.80	154.80
(4) Operating Equipment:						
Rental		912.04	912.04		912.04	912.04
Purchase		632.39	632.39		632.39	632.39
Depreciation		250.00	250.00		250.00	250.00
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		160.78	160.78		160.78	160.78
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		54.00	54.00		54.00	54.00
Bookkeeping		20.00	20.00		20.00	20.00
O.A.B.		22.25	22.25		22.25	22.25
(8) Contingencies (specify):						
TOTALS	8805.00	17,505.46	$18,310.46	805.00	17505.46	18310.46

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 8/5/54 *Payee Scandia Mining Group
By Raleigh Hallenius Title Partner

*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:

$402.50

Signature MJP
(Authorized Certifying Officer)

Date 8/25/54 Vou. No. 1254
(See other side)

Betty
9/13/54 J.W.L.

(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 60 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Eng. Date 8/17/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Eng. Date 8/18/54

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 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1954 Docket No. DMEA 325 Contract No. I D M E 60

Operator's Name Scandia Mining Group Minerals Zinc

Address E. 32 Twenty-ninth Avenue - Spokane, Wash.

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				$5369.07				
Crosscutting								
Raising off winze	Ft.	$805.00	23	805.00	23	35.00		
Shafts				1554.00				
Winzes	Ft.			9950.00	99	100.00		
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$805.00	23	$17,678.07				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				632.39				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$805.00		$18,310.46				

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 8/9/54 Operator Scandia Mining Group

By Raleigh Hellewice Title Partner

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)

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 83-38475

NARRATIVE OF SCANDIA PROJECT

August 5, 1954

DOCKET NO: DMEA 325

COMMODITY: Zinc

CONTRACT NO: IDMS 60

On the 23rd of June we got started cleaning the road out, draining the winze and getting the necessary equipment required for drifting off the winze. We did not get set up to do any drifting during June.

During July we get the drift started. We crosscut three feet to set in the station and drifted twenty feet to the west. There was some zinc sulphide stringers in grey limestone. The stringers are in line with the zinc vein in the upper drift. Some samples were taken but not assayed.

23' at $35.00 per foot - - - - - - Total $805.00

SCANDIA MINING GROUP
E.32 Twenty-ninth Avenue
Spokane, Washington

Raleigh Hellenius
Partner

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

July 13, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Routine Inspection, Docket No. DMEA-325 (zinc), Scandia Mine, Stevens County, Washington, Contract No. Idm-E60.

The Scandia mine was visited on Thursday, July 8, 1954. I was accompanied by Mr. Don Kellum, Geological Survey, and Mr. Webster S. Anderson, Bureau of Mines. Mr. Oliver Harris and his brother, John, were at the property.

Mr. Harris informed us that although work had started, very little progress had been made because of mechanical difficulty with some of the equipment. At the time of the inspection, work was delayed pending arrival of repaired parts of this equipment.

It was expected by Mr. Harris that work would soon be resumed, and within a few days considerable advance would be made on the drift from the bottom of the winze.

As the bottom of the winze was filled with broken rock from a recent blast, the new work was not inspected.

Distribution:
DMEA (orig. & 3)
USBM (2)
Docket
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

June 21, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey, and Webster S. Anderson, Mining Engineer, U. S. Bureau of Mines

Subject: Docket No. DMEA-325 (zinc), Routine Inspection, Scandia Mine, Stevens County, Washington, Contract No. Idm-E60.

On Thursday, June 17, Mr. Oliver Harris was contacted at his home near Northport, Washington. Mr. Harris is planning to do the drifting from the bottom of the winze at the Scandia mine. Work has not started yet but Mr. Harris is preparing to move his equipment to the property and it is expected that work will be started before the first of July.

Mr. Harris was instructed as to the correct bearing on which to begin the drifting and also was counseled to retain muck car samples from each round of advance.

John Nasburg, one of the operators of the Scandia, was conferred with on Sunday, June 20, 1954, to discuss details of the proposed work.

Distribution:
DMEA (orig. & 3)
USBM (2)
Docket
Puffett

2

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1953 Docket No. DMEA 325 Contract No. I-D-M-E-60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Washington
Contract Amount, $21,700.00 Government Participation: 50 % Amount, $10,850.00

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						
Sinking Winze	$650.00	$9200.00	$9850.00	650.00	9200.00	9850.00
(2) Labor and Supervision:						
Labor		3718.80	3718.80		3718.80	3718.80
~~Supervision~~ Surveying		150.00	150.00		150.00	150.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23	24.23		24.23	24.23
Explosives		900.32	900.32		900.32	900.32
~~Exp~~ Freight		12.56	12.56		12.56	12.56
Track						
Power		641.29	641.29		641.29	641.29
Other (Carbide)		154.80	154.80		154.80	154.80
(4) Operating Equipment:						
Rental		912.04	912.04		912.04	912.04
Purchase		632.39	632.39		632.39	632.39
Depreciation		252.00	252.00		252.00	252.00
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		160.78	160.78		160.78	160.78
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		54.00	54.00		54.00	54.00
Bookkeeping		20.00	20.00		20.00	20.00
O.A.B.		22.25	22.25		22.25	22.25
(8) Contingencies (specify):						
TOTALS	$650.00	$16,855.46	$17,505.46	650.00	16855.46	17505.46

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

Date 11/4/53 *Payee Scandia Mining Group

Per Raleigh Hallenius Title Partner

*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:

$ 325.00

Signature MDP
(Authorized Certifying Officer)

Date 8/25/54 Vou. No. 1254
(See other side)

Narrative and one copy 104a sent to Wash. Jan 12-1954

(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. E60 in accordance with the terms of the contract.

Signature /S/ Webster S. Anderson Title Mining Engr Date 11/5/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Engr Date 11/5/53

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 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1953 Docket No. DMEA 325 Contract No. I D M E 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Wash.

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				$5369.07				
Crosscutting								
Raising								
Shafts				1654.00				
Winzes	Ft.	$650.00	6½	9850.00	98½	$100.00		
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$650.00	6½	$16,873.07				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				632.39				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$650.00		$17,505.46				

Betty 1/22/54 J.W.A.

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 11/4/53 Operator Scandia Mining Group

Per Raleigh Hallmissed Title Partner

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.

Project has been recessed until
spring and payment on Oct. 1953
MF-104 is being held up until
operations are resumed.

GPO 83-38475

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1954

NARRATIVE OF SCANDIA PROJECT

November 4, 1953

DOCKET NO: DMEA 325

COMMODITY: Zinc

CONTRACT NO: IDME 60

In October we advanced the winze 6½ feet making a total of 98½ feet to date. Due to the heavy rains, it was impossible to haul supplies up to the mine therefore we had to shut down for the winter months. Encouraging showings of zinc and lead continued to the bottom of the winze.

Some assays were taken but, to date, the assay reports have not been received so they are not available for this report.

6½' at $100.00 per foot - - - - - - - Total $650.00

SCANDIA MINING GROUP
E. 32 Twenty-ninth Avenue
Spokane, Washington

Raleigh Hallmiers
Partner

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

October 19, 1953

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey, and W. S. Anderson, Mining Engineer, U. S. Bureau of Mines.

Subject: Docket No. DMEA-325X (Zinc), Routine inspection of Scandia Prospect, Stevens County, Washington, Contract No. Idm-E60.

W. S. Anderson, U. S. Bureau of Mines, and W. P. Puffett, U. S. Geological Survey, made a routine inspection of the shaft at the Scandia prospect on Tuesday, October 13, 1953. No other persons were at the property during the inspection. Total length of the shaft was measured and geology of the new advance was noted. The accompanying map shows the new workings and the assay data from samples taken.

Total length of the shaft or winze is 98.5 feet, initial measuring point being at sill level of the adit. The contract specifies the winze to be sunk 100 feet. Subsequent to the examination, the Operators were contacted and they stated that the contract miner, Mr. Kurt, had been afflicted with mumps and consequently was forced to recess his mining activity. It was Mr. Kurt's opinion, though, that he had sunk the shaft a total length of 100 feet.

A drift is to be driven from a location near the bottom of the shaft. Inasmuch as it will probably be necessary to leave a 10-foot deep sump in the shaft, drifting will commence from near the 90-foot level in the shaft. At this location a narrow band of zinc ore is exposed in both walls of the shaft. The trend of this ore zone is nearly parallel to that zone exposed on the tunnel level, and thus it appears to be a promising structure to follow. Mapping the shaft has failed to show that one continuous mineralized

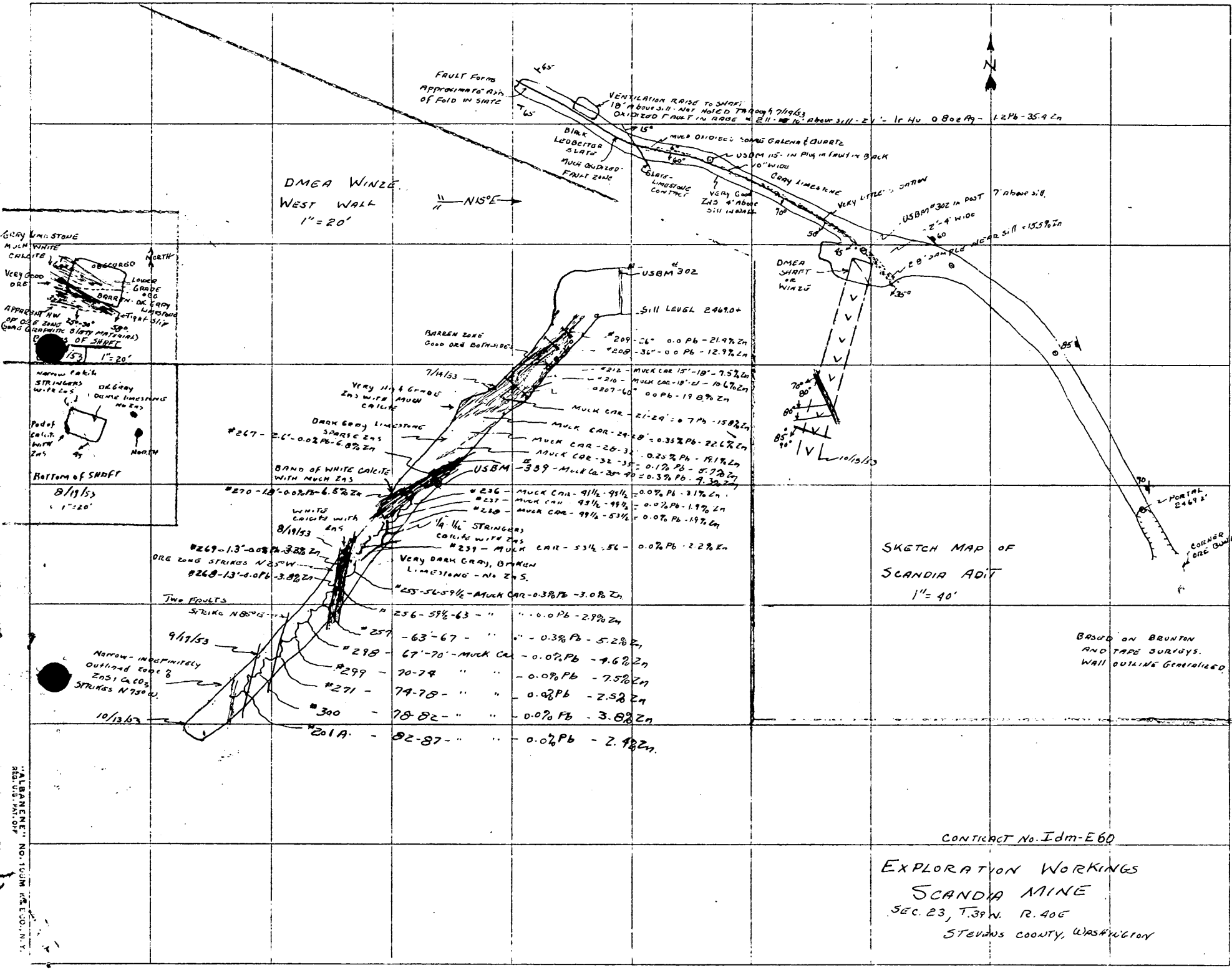
band of ore occurs, but rather it appears that the shaft is intersecting a wide band of mineralized ground in which are localized much higher grade concentrations of zinc ore. Therefore, it will probably be necessary for considerable crosscutting to be driven from the drifts in order to completely explore this mineralized zone.

The shaft has been quite completely sampled. The contract miner retained muck car samples from every round, starting at the 15-foot mark. In addition to these samples, the mineralized bands have been sampled during the routine inspections made by government personnel. Assay results of these samples are shown on the accompanying map. Although of little significant value, a weighted assay value of the muck car samples from the 15-foot mark to the 87-foot mark has been made. This value is 6.56 percent zinc, with negligible lead. No assays for precious metals were made. Two samples have been transmitted to check for possible germanium content of the sphalerite but no returns on these determinations have been received.

The Operators state that in all probability, no more work will be done at the mine this season because of the difficulty of accessibility, which is important due to its being necessary to transport water for drilling up the hill to the mine. This delay in completing the project is unfortunate, but it is believed the project can be more economically completed during the summer months. Work to date has been encouraging, and it is believed that without a doubt, a discovery will result from the completed project.

Attachment

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett



"ALBANENE" No. 1030M KEUFFEL & ESSER CO., N.Y.
REG. U.S. PAT. OFF.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 19 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1953 Docket No. DMEA 325 Contract No. I D M E 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Wash.
Contract Amount, $21,700.00 Government Participation: 50 % Amount, $10,850.00

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:						10/27/53 Dw. 001.
Drilling						
Bulldozing						
Crosscutting						
Drifting						
Sinking Mine	$2200.00	$7000.00	$9200.00			
(2) Labor and Supervision:						
Labor		3718.80	3718.80			
~~Supervision~~ Surveying		150.00	150.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23	24.23			
Explosives		900.32	900.32			
~~xxxx~~ Freight		12.56	12.56			
Track						
Power		641.29	641.29			
Other (Carbide)		154.80	154.80			
(4) Operating Equipment:						
Rental		912.04	912.04			
Purchase		632.39	632.39			
Depreciation		252.00	252.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		160.78	160.78			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		54.00	54.00			
Bookkeeping		20.00	20.00			
O.A.B.		22.25	22.25			
(8) Contingencies (specify):						
TOTALS	$2200.00	$14,655.46	$16,855.46			

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

Date 10/1/53 *Payee Scandia Mining Group

Per Raleigh Hellenius Title Partner

*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:

$ 1100.00

Signature [signature]
(Authorized Certifying Officer)

Date 10/6/53 Vou. No. 933
(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 60 in accordance with the terms of the contract.

Signature /s/ Webster S Anderson Title Mining Engr Date 10/5/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Thomas E Howard Title Mining Engr Date 10/5/53

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 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 16 1953

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

Month of September 1953 Docket No. DMEA 325 Contract No. I M R 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Wash.

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				$5369.07				
Crosscutting								
Raising								
Shafts				1654.00				
Winzes	Ft.	$2200.00	22	9200.00	92	$100.00		
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$2200.00	22	$16,223.07				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				632.39				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$2200.00		$16,855.46				

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 10/1/53 Operator Scandia Mining Group

Per Raleigh Hellerius Title Partner

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)

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 83-38475

NARRATIVE OF SCANDIA PROJECT

October 1, 1953

DOCKET NO: DMEA 325

COMMODITY: Zinc

CONTRACT NO: IDME 60

During the month of September the winze was advanced 22 feet making a total of 92 feet to date. Mineralization hasshown very encouraging the entire distance. An assay sample was taken across the face of the hanging wall at a 82 foot point which was assayed for zinc and lead. It showed 13.2% zinc and no lead. The mineralization has continued on from this point to the 92 foot point.

Copy of the assay report is attached.

22' at $100.00 per foot - - - - - - Total $2,200.00

SCANDIA MINING GROUP
E. 32 Twenty-ninth Avenue
Spokane, Washington

Raleigh Vallerius
Partner

82.
13.2
92.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
September 25, 1953

MEMORANDUM

To: DMEA Field Team, Region II

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

Subject: Routine inspection, Scandia prospect, Stevens County, Washington, Contract Idm-E60, Docket No. DMEA 325 (zinc)

The subject property was visited September 17, 1953, accompanied by Willard Puffett, U. S. Geological Survey. Mr. Paul Kurt, labor contractor for sinking the winze, was at the property during the visit.

USBM tag #339 was placed on the ladder 46.5 feet below USBM #302 for a measuring point.

The bottom of the winze is 41.5 feet below USBM #339 for a total advance of 81.5 feet under the contract.

Mr. Kurt stated that he averages 5 feet of advance every three days, and at this rate of advance the winze should be sunk to the 100-foot level by the second week in October.

Four samples were cut in the winze by Willard Puffett and the writer. Sample No. 267 was cut at USBM #339, No. 270 was cut 10 feet below USBM #339, No. 269 was cut 18 feet below USBM #339, and No. 268 was cut 24 feet below USBM #339. All samples were cut in the west wall of the winze. Mr. Kurt has been taking samples from each round and assay results are being submitted by the Operator with his monthly narrative.

W. S. Anderson
W. S. Anderson

Orig & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
WSA/he

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

Wash

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

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

Month of August, 1953 Docket No. DMEA 325 Contract No. I D M E 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Wash.
Contract Amount, $21,700.00 Government Participation: 50 % Amount, $10,850.00

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						
Sinking Winze	$3,000.00	$4000.00	$7000.00	[illegible]	[illegible]	[illegible]
(2) Labor and Supervision:						
Labor		3718.80	3718.80			
~~Supervision~~ Surveying		150.00	150.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23	24.23			
Explosives		900.32	900.32			
~~Repa~~ Freight		12.56	12.56			
Track						
Power		641.29	641.29			
Other (Carbide)		154.80	154.80			
(4) Operating Equipment:						
Rental		912.04	912.04			
Purchase		632.39	632.39			
Depreciation		252.00	252.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		160.78	160.78			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		54.00	54.00			
Bookkeeping		20.00	20.00			
O.A.B.		22.25	22.25			
(8) Contingencies (specify):						
TOTALS	$3000.00	$11,655.46	$14,655.46	[illegible]	11655.46	14,655.46

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

Date 9/1/53 *Payee Scandia Mining Group

Per Raleigh Hallenius Title Partner

*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:

$ 1500.00

Signature [illegible]
(Authorized Certifying Officer)

Date 9/4/53 Vou. No. 896

(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 60 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Engr Date 9/4/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Engr Date 9/4/53

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 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1953 Docket No. DMEA 325 Contract No. I D ME 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Wash.

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				$5369.07				
Crosscutting								
Raising								
Shafts				1654.00				
Winzes	Ft.	$3000.00	30	$7000.00	70	$7000.00		
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$3000.00	30	$14,023.07				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				632.39				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$3000.00		$14,655.46				

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 9/1/53 Operator Scandia Mining Group

Per Raleigh Hollenius Title Partner

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)

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 83-38475

NARRATIVE OF SCANDIA PROJECT

September 1, 1953

DOCKET NO: DMEA 325

COMMODITY: Zinc

CONTRACT NO: IDME 60

During the month of August the winze was advanced from 40 to 70 feet making a total of 30 feet advanced. The incline of the winze has continued on as it was at the beginning. Due to the ore body being somewhat irregular the winze has not been entirely in ore the continuous distance as shown in the assays listed below, however good ore was again encountered at the 65 foot point and at the 70 foot point the ore appears better than ever, in fact, at this point a good part of the winze appears to be in good ore. The samples taken at this point appear to again carry good values in zinc and also lead. As you will note there are only three assay reports for this period. This is due to the fact that some of the assays have not been received from the assay office.

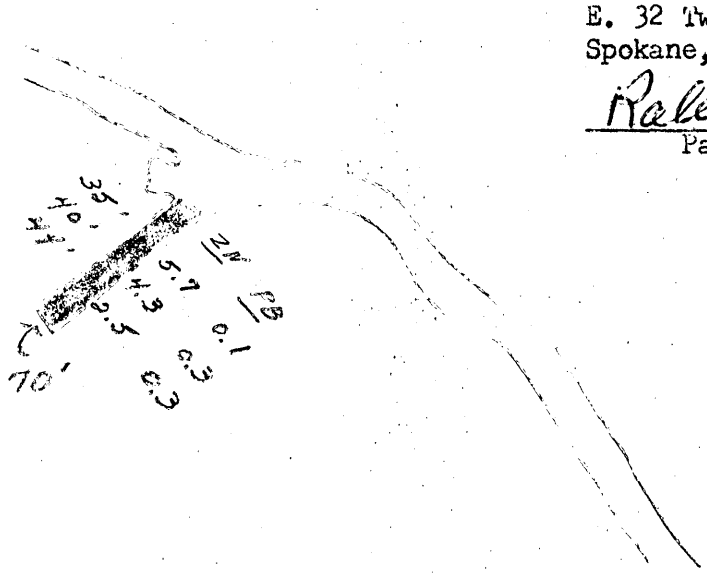
	Zinc	Lead
35 Ft.	5.7	0.1
40 Ft.	4.3	0.3
44 Ft.	2.5	0.3

*These assay figures are shown on the sketch of the winze.

30' at $100.00 per foot - - - - - - - - - - - - -Total $3,000.00

SCANDIA MINING GROUP
E. 32 Twenty-ninth Avenue
Spokane, Washington

Raleigh Hallenius
Partner



*These assays were obtained from grab samples taken from each skip bucket as it was hoisted u from the winze.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 21, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Routine examination, Docket No. DMEA-325 (zinc), Scandia Prospect, Stevens County, Washington, Contract Idm-E60.

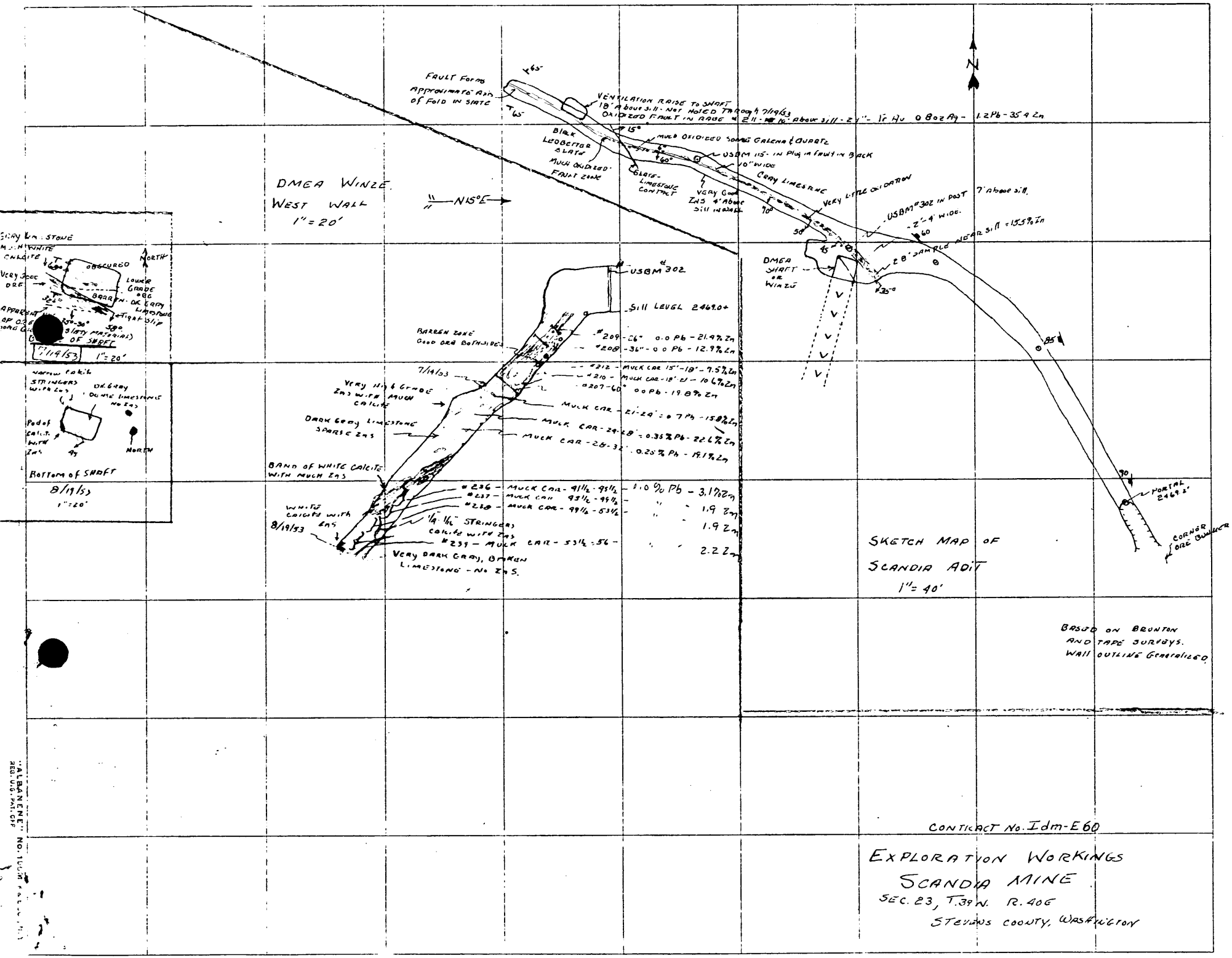
A routine examination of the Scandia Prospect was made on Wednesday afternoon, August 19, 1953. Mr. and Mr. Paul Kurt were working at the mine during the inspection.

The shaft had been sunk 56 feet as of August 19. A map was made of the west wall and bottom of the shaft and is included with this report. As can be seen on the map, the mineralized zones in the limestone are apparently dipping more flatly than the shaft. A few narrow stringers of calcite with sphalerite occur in one side of the bottom of the shaft but the higher grade ore previously intersected is not in evidence here. No samples were taken in the mine, but four muck car samples collected by Mr. Kurt were picked up and have been sent for assay.

Although it appears that the better grade ore is now in the hanging wall area of the shaft, it is believed that at present the shaft can be continued at its present inclination inasmuch as some low grade ore is still being intersected. If the shaft were to be flattened very much, it would create a problem in operating the hoisting bucket.

Enclosure
Distribution:
DMEA(Orig.&3)
USBM(2)
Docket
Puffett

DOCKET No. DMEA 325X (ZINC)



"ALBANENE" NO. 1003M REG. U.S. PAT. OFF.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
August 14, 1953

MEMORANDUM

To: DMEA Field Team, Region II

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

Subject: Interim inspection, Scandia Mine, Stevens County, Washington. Contract Idm-E60, Docket DMEA 325X (zinc)

The Scandia mine was inspected Tuesday, July 28, 1953. Mr. Paul Kurt, labor contractor for the winze, was at the property during the visit.

The winze was advanced 17.5 ft. since the last visit for a total advance of 32.5 ft. under Stage II of the contract.

The bottom of the winze was in zinc ore which would run approximately 16 percent Zn. Sample W.S.A. No. 42 was cut from the hanging wall of the winze and was a selective sample of the higher grade ore. This sample will be assayed for both zinc and germanium to determine if there is any germanium present, and if present, the ratio of germanium to zinc.

The ore that has been removed from the winze to date has been dumped on the dump with the waste material. It was suggested to Mr. Kurt that they make an effort to stockpile all of the muck from the winze as long as they were in ore as the muck car samples to date indicate the zinc content will be better than 15 percent.

The contractor to date has maintained good standards of work and his progress has been more satisfactory than was the case when work on the winze was initiated.

cc: Orig. & 3 cys- Wash.
USGS
DMEA
M/D
Engr.

W. S. Anderson

W. S. Anderson

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

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

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

Month of July, 1953 Docket No. DMEA 325 Contract No. IDME 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Wash.
Contract Amount, $21,700.00 Government Participation: 50 % Amount, $

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:						8/20/53 J.W.R. Betty
Drilling						
Bulldozing						
Crosscutting						
Drifting						
Sinking Winze	$2500.00	$1500.00	$4000.00			
(2) Labor and Supervision:						
Labor		3718.80	3718.80			
~~Supervision~~ Surveying		150.00	150.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23	24.23			
Explosives		900.32	900.32			
~~Pipe~~ Freight		12.56	12.56			
Track						
Power		641.29	641.29			
Other (Carbide)		154.80	154.80			
(4) Operating Equipment:						
Rental		912.04	912.04			
Purchase	212.31	420.08	632.39			
Depreciation		252.00	252.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		160.78	160.78			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		54.00	54.00			
Bookkeeping		20.00	20.00			
O.A.B.		22.25	22.25			
(8) Contingencies (specify):						
TOTALS	$2712.31	$8943.15	$11,655.46	2712.31	8943.15	11655.46

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

Date 8/3/53 *Payee Scandia Mining Group

Per Raleigh Hellenicor Title Partner

*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:

$ 1356.16

Signature [illegible]
(Authorized Certifying Officer)

Date 8/20/53 Vou. No. 860

(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. 60 in accordance with the terms of the contract.

Signature S/ W. S. Ankenman Title M. Eng. Date 8/4/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S/ J. E. Howard Title M. Eng. Date 8/4/53

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 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1953 Docket No. DMEA 325 Contract No. I D N E 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Washington

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								
Raising								
Shafts								
Winzes	Ft.	$2500.00	25	$4000.00	40	$100.00		
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$2500.00	25	$4000.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		$ 212.31		$ 632.39				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$2712.31		$4632.39				

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 8/3/53 Operator Scandia Mining Group

Per Raleigh Hellerines Title Partner

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)

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 83-38475

NARRATIVE OF SCANDIA PROJECT

August 3, 1953

DOCKET NO: DMEA 325

COMMODITY: Zinc

CONTRACT NO: IDME 60

During the month of July we advanced the winze 25' making a total of 40' to date. Continuing on the same incline as originally laid out we have been in good ore the entire distance, in fact, the ore body seems to be increasing in size and the average metal content is improving with depth. The assay samples taken are as follows:

	Zinc	Lead	Silver
20 to 24'	15.8	0.7	
24 to 28'	22.6	0.35	
28 to 32'	19.1	0.25	
32 to 36'	-----	3.5	0

These assay figures are shown on the sketch of the winze.

25' at $100.00 per foot - - - - - - - - - - - Total $2,500.00

SCANDIA MINING GROUP
E. 32 Twenty-ninth Avenue
Spokane, Washington

Raleigh Hallenius
Partner

NOTE: The samples taken at the 32 to 36' depth were not assayed for zinc but for silver and lead only.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
1201 N. Division St.
Spokane 2, Washington

July 16, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: W. S. Anderson, Mining Engineer, Bureau of Mines, Region II

Subject: Routine inspection of the Scandia Mine, Stevens County, Washington, Contract Idm-E60, Docket DMEA 325X (zinc)

The Scandia Mine was visited July 8, 1953 accompanied by Mr. Paul Kurt, miner who has the labor contract to sink the winze at the property.

The winze as allowed in Amendment No. 4 of the contract is now 15 feet below the sill of the main adit level as shown on the attached sketch. At the time of the visit the sinking operations were stopped due to a breakdown of the compressor. Mr. Kurt anticipates that it will take approximately 5 days to overhaul the compressor unit.

Work to date on the subject exploration project in which the Government has participated is as follows:

Stage I

Drifting	208.0 feet
Sinking	22.5 feet

Stage II

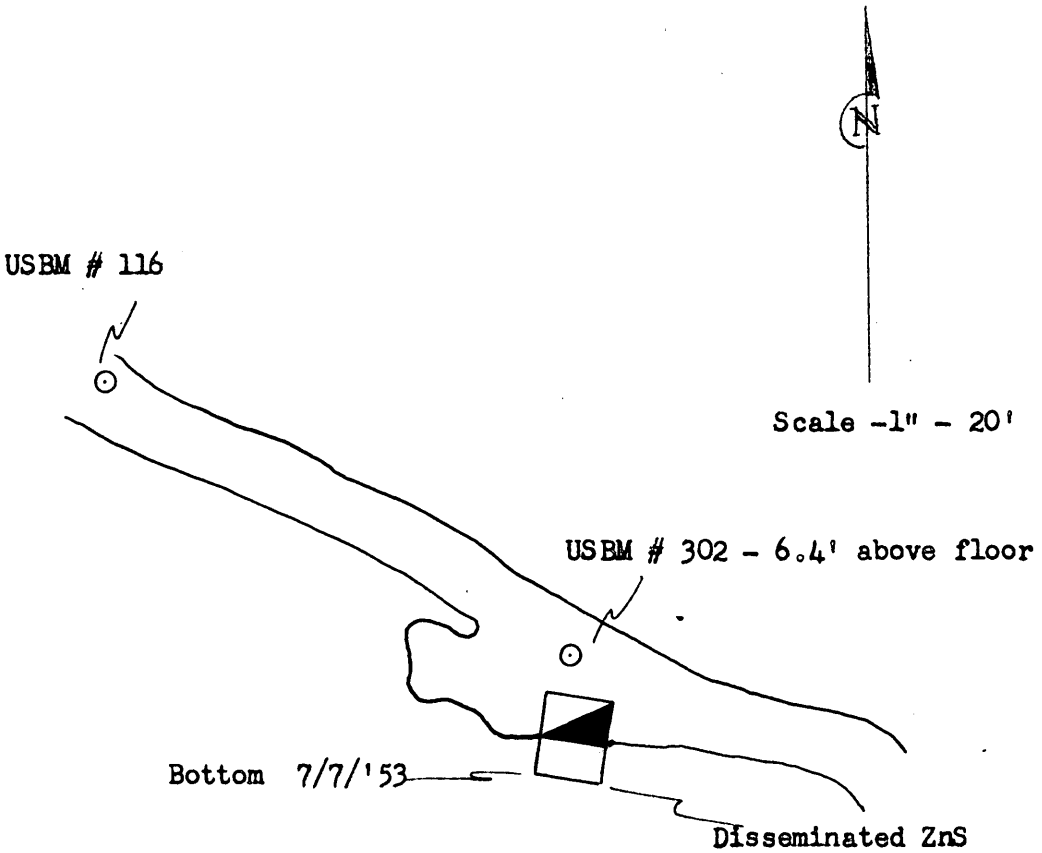
Sinking	15.0 feet

Mr. Kurt stated that he believes he will be able to pull approximately 3.5 feet per shift when he resumes sinking operations.

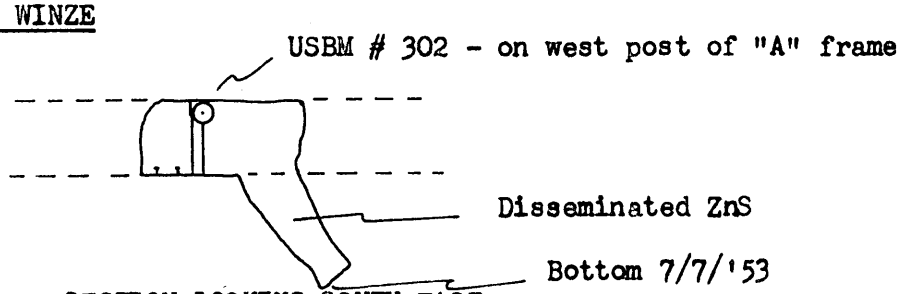
Advance in the winze to date has been through limestone which carries disseminated sphalerite. Mr. Kurt was advised to cut samples for every 5 feet of advance as long as he is in the mineralized structure.

W. S. Anderson
W. S. Anderson

cc: Orig & 3-Wash.
2-USGS
DMEA
M/D
WSA



PLAN OF DRIFT AND WINZE



SECTION LOOKING SOUTH EAST

WINZE AT THE SCANDIA MINE, STEVENS COUNTY, WASHINGTON.

Sketch by W.S.Anderson 7/7/'53 - DMEA Docket No. 325 - Contract Idm. E-60

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

July 14, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-325X (Zinc), Routine Examination of Scandia Mine, Stevens County, Washington, Contract Idm-E60

A routine examination of the Scandia mine was made on Tuesday morning, July 14, 1953. Mr. Paul Kurt, contract miner, and his helper were at the mine.

The winze, allowed under the terms of the extension of the contract, has been sunk nearly 21 feet on an incline of nearly 45°. Bearing of the center line of the winze is S. 15° W. Good zinc ore has been followed for the entire length of the winze. In the bottom of the winze, a very rich band of ore occurs. Apparently, there is one rich band of sphalerite with many narrow subsidiary stringers on sphalerite on either side of the main zone. Ore occurs in the footwall of the winze, and quite probably, ore occurs in the hanging wall.

A map was made of the west wall of the winze and is included on the accompanying map. Locations of three channel samples are shown as well as locations of muck car samples which have been taken by the miners. Results of the assays of these samples will be submitted with a later report. However, it is estimated that the average grade of the channel samples will be about 15 percent zinc.

A ventilation raise being advanced sporadically by Mr. Kurt was examined. He intends to hole through into the bottom of a shallow shaft and thus gain better circulation in the mine workings. The oxidized shear in the slate which represents the extension of that same zone in which the high-grade zinc ore occurs in the limestone is exposed in the ventilation raise. At an elevation of approximately 10 feet above the sill, this oxidized shear is 21 inches wide. A few remnants of galena were seen, and as a result, a sample was taken across the zone and is to be assayed for the precious metals as well as zinc and lead. Some bright green stain occurs in the slate near the oxidized shear, and it is speculated that this stain may be a film of silver halides. The green does not appear to be the right shade to be considered an oxidation product of copper minerals.

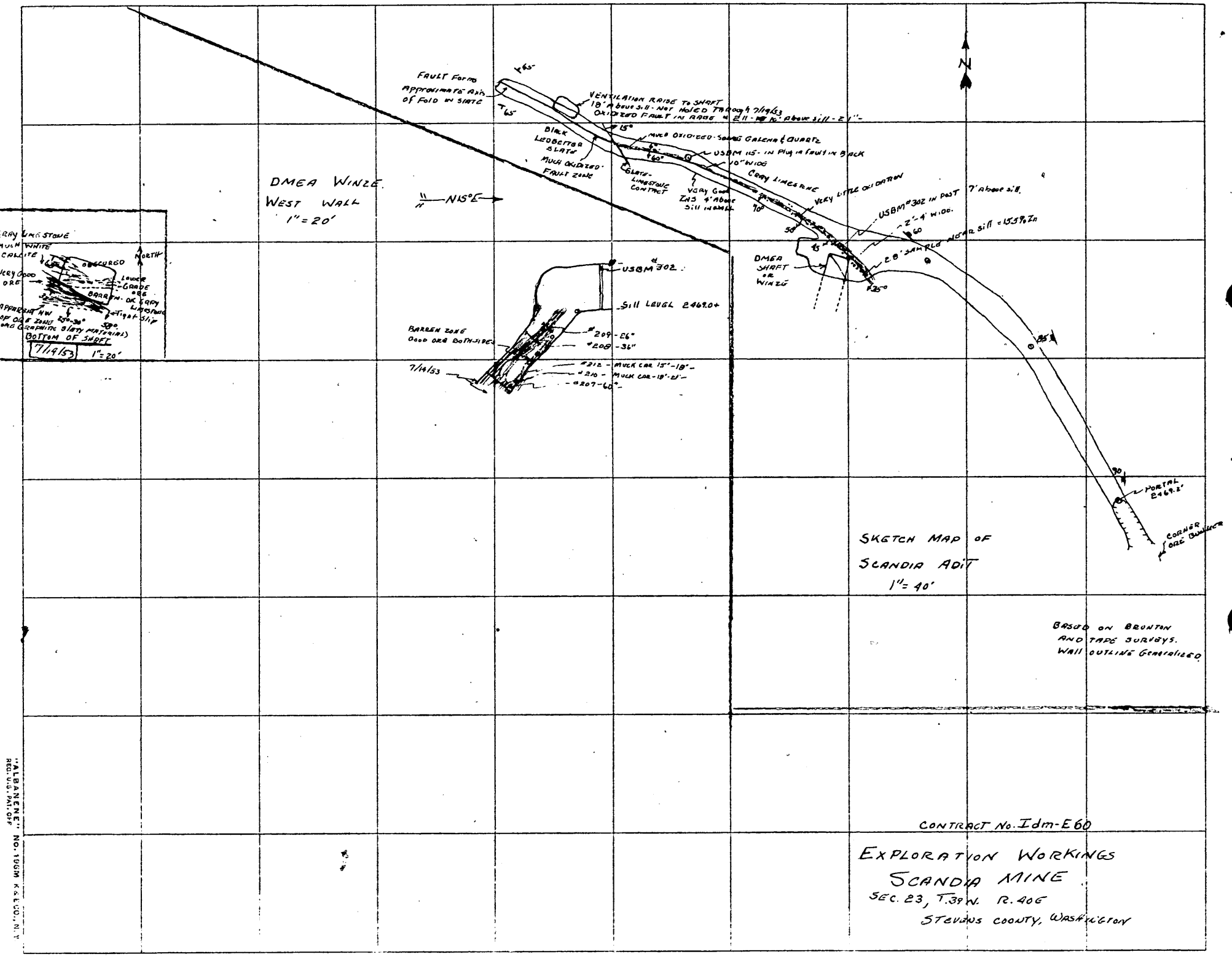
good ore reported

As mentioned, Mr. Kurt and his helper have been taking grab samples of the broken rock from the winze. They will continue to do this. Sample sacks were left with them for the storage of these samples, and on subsequent inspections, these samples will be gathered and assays will be made. In this way, it is believed that a close check can be maintained concerning the grade of ore being followed in the shaft.

Although the shaft has been sunk only 21 feet, present results are very promising. If anything, the mineralized zone is wider at the bottom of the shaft than at the collar. According to the new contract, a certification could probably be made at the present time, but it is hoped that this certification will be delayed until more is known of the ore zone, expecially, as the Operator does not plan any immediate sale of the ore being produced.

Enclosure
Distribution:
DMEA(Orig.&3)
USBM(2)
Docket
Puffett

DOCKET No. DMEA 325X (ZINC)



CONTRACT No. Idm-E60

EXPLORATION WORKINGS
SCANDIA MINE
SEC. 23, T.39 N. R.40 E
STEVENS COUNTY, WASHINGTON

"ALBANENE" NO. 105M K&E CO., N.Y.
REG. U.S. PAT. OFF.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1953 Docket No. DMEA 325 Contract No. 1 D M E 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Wash.
Contract Amount, $21,700.00 Government Participation: 50 % Amount, $

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						
Bulldozing						
Crosscutting						
Drifting						
Sinking Winze	$1500.00	None	$1500.00	1500.00	[illegible]	1500.00
(2) Labor and Supervision:						
Labor					3718.80	3718.80
~~Supervision~~ Supervisory					150.00	150.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber					24.23	24.23
Explosives					900.32	900.32
~~Pipe~~ Freight					12.58	12.58
Track						
Blower					641.29	641.29
Other Equipment					154.60	154.60
(4) Operating Equipment:						
Rental					912.04	912.04
Purchase					430.28	430.28
Depreciation					252.00	252.00
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment					160.78	160.78
Sampling and Analysis						
Payroll Taxes						
Liability Insurance					54.00	54.00
Recording					80.00	[illegible]
Costs					22.25	22.25
(8) Contingencies (specify):						
TOTALS	$1500.00	None	$1500.00	1500.00	8943.15	8943.15

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

Date July 3, 1953 *Payee Scandia Mining Group

Per Raleigh Hallerin Title Partner

*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:

$ 750.00

Signature (Authorized Certifying Officer)

Date 7/10/53 Vou. No. 823
(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 60 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Engr Date 7/9/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Engr Date 7/9/53

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 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

RECEIVED
JUL 30 1953

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

Month of June 195 3 Docket No. DMEA 325 Contract No. 1 D M E 60
Operator's Name Scandia Mining Group Minerals Zinc
Address E. 32 Twenty-ninth Avenue - Spokane, Washington

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								
Raising								
Shafts								
Winzes	Ft.	$1500.00	15	$1500.00	15	$1500.00		
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$1500.00	15	$1500.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 3, 1953 Operator Scandia Mining Group

Per Raleigh Hellerines Title Partner

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)

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 83-38475

NARRATIVE OF SCANDIA PROJECT

July 3, 1953

DOCKET NO: DMEA 325

COMMODITY: Zinc

CONTRACT NO: 1 DME60

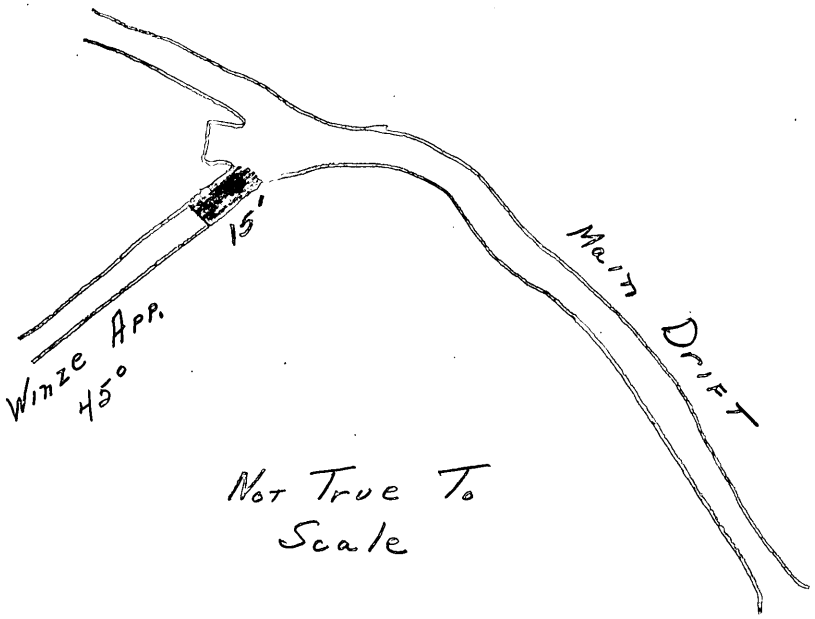
Started sinking winze in the Scandia project (as outlined by the U. S. Bureau of Mines and the U. S. Geological Survey) on June 22, 1953 and have advanced 15 feet on approximately 45 °. Have good zinc on the left and hanging wall and on the right side of the winze.

An assay sample was taken across the face of the hanging wall at a depth of 13 feet which ran 10.71 zinc and 0.5 lead.

15 Feet at $100.00 per foot - - - - - - - Total $1500.00

SCANDIA MINING GROUP
E. 32 Twenty-ninth Avenue
Spokane, Washington

Raleigh Hallenius
Partner



UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~

1201 N. Division St.
Spokane 2, Washington

June 25, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: W. S. Anderson, Mining Engineer, U. S. Bureau of Mines

Subject: Progress examination, Scandia Property, Stevens County, Washington, Contract Idm-E60, Docket DMEA 325X (zinc)

The subject property was visited Saturday June 13, 1953. Mr. Paul Kurt, miner who has the labor contract to sink the winze at the property was in Ione, Washington at the time of the visit.

Work under the exploration contract was recessed in August, 1952 when initial funds allowed under the contract were expended. The Operators applied for additional funds for further exploration work and Amendment No. 4, allowing more funds, was approved November 25, 1952.

Mr. Kurt was contacted in Ione, Washington, and he stated that he was running a ventilation raise to the surface from a point approximately 20' back from the existing face of the drift on the main level. He expected to hole through in the next round.

He anticipates that he will start sinking the winze, allowed in Amendment No. 4 of the contract, about June 18, 1953. Before sinking can be initiated an "A" frame and tugger hoist will have to be installed.

W. S. Anderson

CC: Orig. & 3 - Wash.
USGS -2
DMEA
M/D
WSA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

No. 157 Rural Trust
Spokane 5, Washington

August 20, 1952

Memorandum

To: [illegible] Director, Executive Officer, [illegible], Region II

From: [illegible] Duffett, Geologist, U. S. Geological Survey

Subject: [illegible] Inspection of Uranium Prospect, Stevens County, Washington, under DMA Contract 14-[illegible], Docket No. [illegible] (Fine).

A [illegible] examination was made of the [illegible] property on Wednesday, August 20, 1952. I was accompanied on this visit by [illegible] Rosebom, U. S. Geological Survey. Mr. [illegible] Murray was at the property.

[illegible] the footage under terms of the contract was completed August 6, 1952. Since that date no further work has been done inasmuch as the operators have submitted a request for an extension of their contract and are waiting until definite official word concerning this request is received.

[illegible] underground workings were seen. There has been a total of 246 feet of tunnel driven under terms of the contract.

Forty-two feet from the present tunnel face an irregular (pinto)-lined [illegible] contact was intersected and the remaining tunnel was driven in [illegible]. This contact represents the Stevens Thrust wherein [illegible] limestone of Cambrian age is thrust over Precambrian Metabotter [illegible].

The [illegible] utilized shear which was being followed in the limestone [illegible] exclusively at the pinto contact. [illegible] easily discernible [illegible] continues through the pinto but consists only of broken rock [illegible] no evidence of mineralization or valuable mineralization. There are [illegible] of tight folding in the pinto which is probably related to the major thrust movement.

The operator, Mr. Murray, [illegible] to have to request a final report [illegible] the project now, but inasmuch as he has requested an extension, [illegible] noted to wait until he has received definite word concerning it.

[illegible] Duffett

cc: [illegible]
[illegible] (2)
[illegible]

M. E. Volin, Member, DMEA Field Team
Region II

August 19, 1952

E. A. Magill, Mining Engineer

Progress Examination, Nasburg and Hallenius (Scandia Mining Group), Stevens County, Washington, Contract Idm-E60, Docket DMEA 325X Zinc.

An examination of the subject property was made on August 16, 1952.

Since the last visit the operators have completed a transit survey showing the topographic features and with a transit line run into the adit (copy attached). The location of reference point USBM 116 as shown on the map.

Since the last visit on July 12 the operators have advanced their drift a distance of 55 feet. This places the face a distance of 69 feet west of U.S.B.M. 116. The last 25 feet of the drift has been in Tedbetter State. The vein turns rather sharply at the slate-limestone contact and apparently dies out. The slate-limestone contact is an unconformable contact which dips gently toward the east.

The work done during the latter part of July and August exceeds the amount allowed in the original contract. The operators are hoping that the amendment No. 4 allowing additional funds for the project will be approved so that they may continue the project. In the meantime, they are preparing to raise to the bottom of the shaft at a point about 45 feet west of U.S.B.M. 116. This raise will greatly help the ventilation problems in any future work. They are also preparing to begin sinking a winze on the ore as proposed in Amendment No. 4.

Since the last visit the operators have washed down the walls in the area where the main adit first intersected the oreshoot. This has exposed the excellent showing of zinc.

E. A. Magill

CC: 4-Wash.
2-USGS
D/F
EAM

[illegible]

[illegible] work has been done on the [illegible] road. The [illegible] after the [illegible] has been completed the road will not be in condition until about next May.

[illegible]

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

Nasburg Ma. 2013
Hallowus Ma 9368

Budget Bureau No. 4
Approval expires 6-30-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1952 Docket No. DMEA 325x Contract No. 60

Operator's Name Scandia Mining Group Minerals Zinc

Address 32 E. 29 th, Ave. Spokane, Wash.

Contract Amount, $ Government Participation: 50 % Amount, $ 7,560.00

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						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	332.00	3386.80	3718.80			
~~Supervision~~ xxxxxx Serveying		150.00	150.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23	24.23			
Explosives	65.65	834.67	900.32			
~~Pipe~~ xxx Freight		12.56	12.56			
Track		*	*			
Power	103.35	537.94	641.29			
**Other Carbide		154.80	154.80			
(4) Operating Equipment:						
Rental ***	36.00	912.04	948.04	-0-	912.04	912.04
Purchase		420.08	420.08			
Depreciation		270.00	270.00	36.00	216.00	252.00
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	37.57	123.21	160.78			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		54.00	54.00			
		20.00	20.00			
		22.25	22.25			
(8) Contingencies (specify):						
TOTALS	574.57	6922.58	7497.15	574.57	6868.58	7443.15

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

Date 1-2-53 *Payee Scandia Mining Group

Per John Marbury Title President

*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:

$ 289.29

Signature (Authorized Certifying Officer)

Date 1/30/53 Vou. No. 641

(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 60 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Engr Date 1/26/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Engr Date 1/26/53

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 6 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 195 2 Docket No. DMEA 325x Contract No. 60
Operator's Name Scandia Mining Group Minerals Zinc
Address 32 E 29 th, Ave, Spokane, Wash

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	Ft	574.57	23	5843.15	208	28.09		
Crosscutting								
Raising								
Shafts	Ft	0	0	1654.00	22.5	73.51		
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		574.67	23	7497.25				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 1-25-53 Operator Scandia Mining Group

Per John Weisberg Title Treasurer

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.

U. S. GOVERNMENT PRINTING OFFICE 205676

Activities ---July 1952 Canadis Mining Group

From where we left off in June, we continued drifting on the vein in a westerly direction for 25 feet, which completed our present development contract.

The vein followed was very well defined and widened to as much as 50 inches, assay taken of it showed 20.1 %zinc and .5% lead. It ran diagonally accross the drift, pitching in a southerly direction. It is much wider in the bottom.

We believe the results from this exploration program have been satisfactory and that further exploration of the vein at the bottom of the drift at the best showing will prove a large ore body.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

July 21, 1952

Memorandum

To: A. E. Weissenborn, Exec. Officer, DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Routine inspection of progress at Scandia Property, Stevens County, Washington, under DMEA Contract Idm-E60, Docket No. 325, Zinc.

A routine inspection of the Scandia property was made on Wednesday, July 2, 1952. I was accompanied on this inspection by George P. Marinos, Professor of Geology, Athens, Greece.

At the time of the inspection the operators were drifting on a strong, steeply-dipping, oxidized structure which trends nearly east-west at the face. This structure represents a continuation of the well-mineralized high-grade sphalerite zone encountered earlier in the drift. Although only sparse sulfides occur near the structure, evidence indicates that much leaching has occurred and in all probability carbonates and oxides of zinc and lead occur bordering the structure. The operators were directed to take a sample across the face for assaying.

A tape and compass survey was made of the entire drift and the most apparent geology exposed in the new workings was plotted. As the walls of the tunnel have a thick coating of finely-powdered rock, it is next to impossible to map or even observe detailed geologic data.

The outline of the tunnel has been superimposed and traced on a map made from a transit survey of the property. As a result, it is evident that the structure being followed in the drift is that structure on which a shaft has been sunk from the surface. The relative location of this shaft to the face of the tunnel is approximately 30 feet due west and if further drifting is done, it seems certain the tunnel will either intersect the bottom of the shaft, or if the shaft is not deep enough, will pass directly beneath the shaft bottom. Because of this, the operators were cautioned to be extremely careful and to carry a pilot hole ahead of them and to carefully check the back when in the vicinity of the shaft.

Mr. Theodore Nasburg and Raleigh Hallenius were engaged in drilling at the time of the inspection. In a conversation with them, it developed that a misunderstanding has occurred on the operator's account in regard to the possible extension of their exploration contract. The operator stated that he was of the opinion an application for extension had been submitted and official action was being taken on said application. I informed Mr. Nasburg that such was not the case and that the government was concerned as to their plans for future exploration inasmuch as the funds under the present contract were soon to be depleted and it was believed that further exploration should be done to test for possible extensions of the favorable ore-showing exposed in the drift. Mr. Nasburg stated that they would attend to an application for extension as quickly as possible. (Since the date of the extension, a letter has been written the operators outlining a possible course of exploration and an estimate of the cost of such a project. No reply or other evidence as to possible action by the operator has been received as of July 15, 1952.)

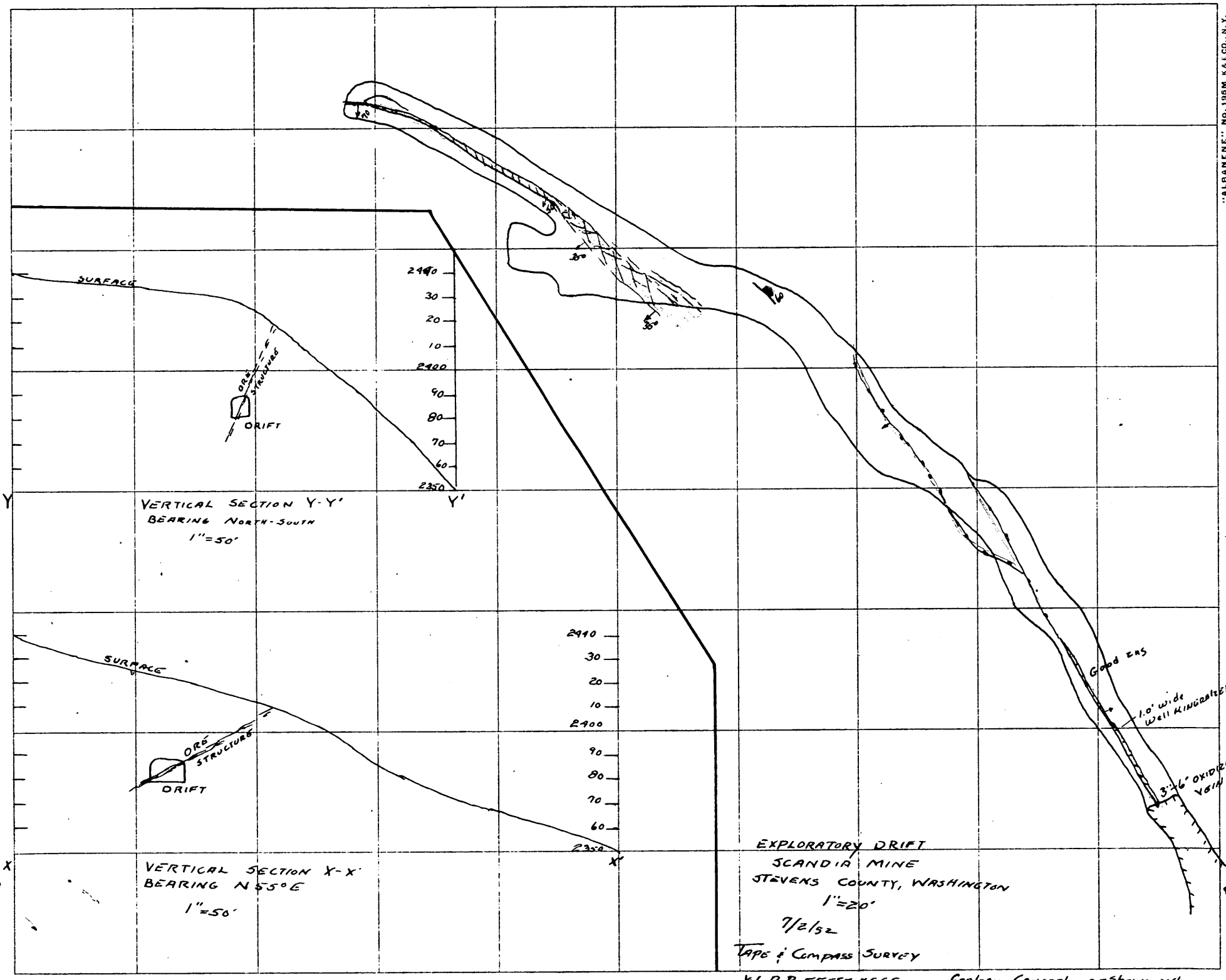
There has been exposed in the Scandia workings many narrow stringers of sphalerite, one good, though short, vein of galena and oxidized galena, and three-foot thick high-grade pod of sphalerite, the extensions of which are the oxidized structure that was being drifted on at the time of the examination. There is a possibility that all of the showings represent one continuous mineralized structure with many narrow subsidiary stringers. The operators have not taken samples often or methodically enough to present any picture as to the true grade of ore exposed, but visual inspection indicates that the rock is of ore grade.

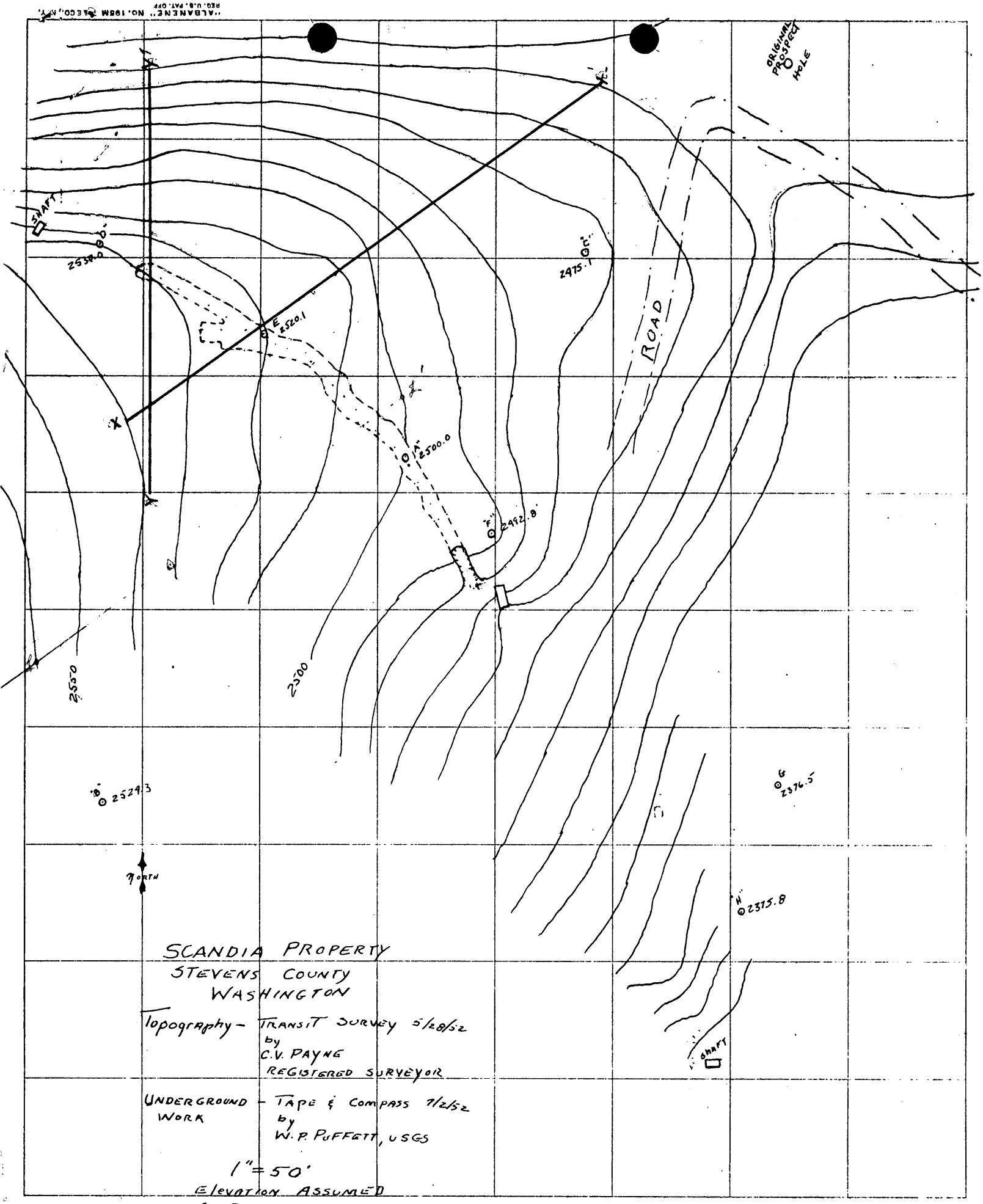
Regardless of what the exact geologic picture is, there is sufficient evidence exposed to justify further exploration of the known mineralized showing. Certainly more drifting should be done in the presently followed structure, and some method of exploring for deeper extension of the ore should be initiated since the present tunnel has a maximum of only 50 feet of back. This exploration for deeper extensions of the ore could be done by sinking on the ore and drifting at lower levels, or by first diamond drilling and if promising evidence was obtained, either a new crosscutting tunnel to the ore could be made at a lower level, or the ore could be followed down-dip by sinking a winze. It was stated to the operator that the burden of choice as to what method of further exploration they are to pursue rested with them and all we could do is to make suggestions.

Because the operators have had little experience in mining, it would be physically hazardous for them to undertake the sinking of a winze without competent direction. Therefore they were advised that if at all possible they should obtain the services of at least one miner experienced in conducting a sinking operation.

Willard P. Puffett
Geologist

cc: DMEA (2)
USBM (2)
USGS (SRO)
WPP/beh


SURFACE
ORE STRUCTURE
DRIFT
2440
30
20
10
2400
90
80
70
60
2350
Y
Y'
VERTICAL SECTION Y-Y'
BEARING NORTH-SOUTH
1"=50'
SURFACE
ORE STRUCTURE
DRIFT
2410
30
20
10
2400
90
80
70
60
2350
X
X'
VERTICAL SECTION X-X'
BEARING N 55° E
1"=50'
Good ERS
1.0' wide well kimberlized
3'-6' oxidized vein
EXPLORATORY DRIFT
SCANDIA MINE
STEVENS COUNTY, WASHINGTON
1"=20'
7/2/52
TAPE & COMPASS SURVEY
W. P. PUFFETT, USGS
Geology GENERALIZED - Shows only MAJOR ORE STRUCTU
"ALBANENE" NO. 198M K&E CO., N.Y.
REG. U.S. PAT. OFF.



SCANDIA PROPERTY
STEVENS COUNTY
WASHINGTON

Topography - TRANSIT SURVEY 5/28/52
by
C.V. PAYNE
REGISTERED SURVEYOR

UNDERGROUND WORK - TAPE & COMPASS 7/2/52
by
W.P. PUFFETT, USGS

1" = 50'
ELEVATION ASSUMED
CONTOUR INTERVAL 10 FEET

X-X' - Vertical SECTION
Y-Y' Vertical SECTION

M. E. Volin, Member, DMEA Field Team, Reg. II July 21, 1952

E. A. Magill, Mining Engineer, Bureau of Mines

Routine progress examination, Masburg and Hellenius. (Scandia Mining Group,) Stevens County, Wash. Contract Idm-E60, Docket DMEA 325X. Zinc.

An examination of the subject property was made on July 12, 1952.

Since the last visit on June 7, the operators have advanced their drift a total of 79 feet. In this distance the vein has narrowed down until it is about a foot in width in the face. The lead and zinc minerals are practically all oxidized, only scattered bunches of galena being found within the oxides. The vein has turned so that it is going almost east and west with a dip of 60 degrees toward the south. The vein appears to be the same one which is exposed in the shaft, about 23 feet of drifting is necessary yet to bring it under the bottom of the shaft. The operators were cautioned to be careful when approaching the projected position of the shaft as it is not known whether the shaft reaches the level of the drift.

The operators have requested that additional funds be allocated the project so that exploration work might be continued. Only about $600 of the $7500 contract remained as of July 1. A recommendation and suggested program for additional exploration is being worked out in cooperation with the U.S.G.S. and the operators. This program will be submitted shortly. It is believed that the property well warrants additional exploration as the work to date has disclosed a very nice showing of zinc ore. Furthermore, the operators have kept their costs down to a reasonable figure and have carried the program in a satisfactory manner.

E. A. Magill

Orig. to files
DF
Wash. (2)
USGS (2)
EAM

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

Wash

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER
Supplement

Month of June 1952 Docket No. DMEA 60 Contract No. 325X

Operator's Name Scandia Mining Group Minerals Zinc

Address 32 E 29th Ave., Spokane, Washington

Contract Amount, $ Government Participation: 50 % Amount, $

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						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	$930.00	2456.80	3386.80	930.00 ~~3386.80~~	2456.80	3386.80
Supervision Surveying		150.00	150.00			150.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		24.23				24.23
Explosives		834.69				834.69
Pipe other freight		12.56				12.56
Track						
Carbide other		154.80				154.80
Power		537.94				537.94
(4) Operating Equipment:						
Rental		912.04				912.04
Purchase		420.08				420.08
Depreciation		216.00				216.00
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		123.21				123.21
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		54.00				54.00
Bookkeeping		20.00				20.00
O.A.B.		22.25				22.25
(8) Contingencies (specify):						
TOTALS	930.00	5938.58	6868.58	930.00	5938.58	6868.58

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

Date 8-21-52 *Payee Scandia Mining Group

Per Donald Whitney Title Partner

*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)

SEP 2 1952

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

$ 465.00

Signature WRD
(Authorized Certifying Officer)

Date 9/1/52 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. E-60 in accordance with the terms of the contract.

Signature Eric G. Erickson Title Mining Engr. Date 8-22-52

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Thomas E Howard Title Mining Engr Date 8/22/52

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Time sheet for Theodore Masburg for the month of June 195[illegible]
Scandia Mining Group, Northport, Washington

June 3, 1952	8 hr	June 18	7 hr
4	8 "	19	4 "
5	8 "	20	9 "
6	8 "	21	3 "
7	5 "	22	- - -
8	8 "	23	5 "
9	10 "	24	11 "
10	8 "	25	10 "
11	9 "	26	4 "
12	9	27	- - -
13	9 "	28	8 "
14	8 "	29	- - -
15	9 "	30	5 "
16	9 "	31	- - - -
17	9 "	Total hrs	191

191 hrs @ 1.62½ - - - $310.00

- -

Time sheet for Raleigh Hellenius for the month of June 1952
Scandia Mining Group, Northport, Washington

June 3, 1952	8 hrs	June 18, 1952	7 hrs
4,	8 "	19	4 "
5,	8 "	20	9 hrs
6	8 "	21	3 "
7	5 "	22	- - - -
8	8 "	23	5 "
9	10 "	24	11 "
10	8 "	25	10 "
11	9 "	26	4 "
12	9 "	27	- - -
13	9 "	28	8 "
14	8 "	29	- - -
15	9 "	30	5 "
16	9 "	31	- - - -
17	9 "	Total hours	191

191 hrs @ $1.62½ - - - $310.00

This is a certified true copy of the time book for the month of June 1952.

Donald Masburg
Donald Masburg, President
Scandia Mining Group
Northport, Washington

Time sheet for Johen Nasburg for the month of June 1952
Scandia Mining Group, Northport, Washington

June 3, 1952	8 hr	June 18, 1952	7 hr
4	8 "	19	4 "
5	8 "	20	9 "
6	8 "	21	3 "
7	5 "	22	- - - -
8	8 "	23	5 "
9	10 "	24	11 "
10	8 "	25	10 "
11	9 "	26	4 "
12	9 "	27	- - - - -
13	9 "	28	8 "
14	8 "	29	- - -
15	9 "	30	5 "
16	9 "	31	- - - -
17	9 "	Total hours	191

191 hrs @ $1.62½ - - - 310.00

Amount of wages paid at current local wage scale ofr this area.

Theodore Nasburg - - -	191 hrs	@ $1.77 - -	338.07
Raleigh Hallenius - -	191 "	@ $1.77 - -	338.07
John Nasburg - - - - -	191 "	@ $1.57 - -	299.87
		Total payroll	976.01

This is a certified true copy of the time book for the month of June, 1952.

Donald Nasburg Partner
Donald Nasburg
Scandia Mining Group
Northport, Washington

Amount of Wages Claimed:

Theodore Nasburg - - - -	191 hrs	@ $1.62½ - - -	$310.00
Raleigh Hallenius - - - -	191 hrs	@ $1.62½ - -	-$310.00
John Nasburg - - - - - -	191 hrs	@ $1.62½ - -	- $310.00
		Total wages	$930.00

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

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Acct
Calla

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration
RECEIVED
AUG 25 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 195 2 Docket No. DMEA 325 X Contract No. 60

Operator's Name Theo. John, Donald, Effie, Nesburg Raleigh Hallenius Minerals Zirc

Address 32 E. 29 th, Ave Spokane, Washington

Contract Amount, $ 7560.00 Government Participation: 50 % Amount, $ 3780.00

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						
Bulldozing						
Crosscutting						
Drifting						
Contract work						
(2) Labor and Supervision:						
Labor	977.01	2456.80	3433.81		562.50 1894.30	2456.80
Supervision Surveying	150.00		150.00	150.00		150.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	24.23		24.23	24.23		24.23
Explosives	352.21	482.46	834.67	352.21	482.46	834.67
Pipe xxx other (Freight)		18.56	12.56		12.56	12.56
Track			*/			
**Carbide Other	5.21	149.59	154.80	5.21	149.59	154.80
Power	273.97	264.16	538.13	273.78	264.16	537.94
(4) Operating Equipment:						
Rental		912.04	912.04		912.04	912.04
Purchase		420.08	420.08		420.08	420.08
Depreciation	90.00	180.00	270.00	90.00	126.00	216.00
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	74.26	48.95	123.21	74.26	48.95	123.21
Sampling and Analysis						
Payroll Taxes						
Liability Insurance		54.00	54.00		54.00	54.00
Bookkeeping	20.00		20.00	20.00	20.00	20.00
O. A. B.		22.25	22.25		22.25	22.25
(8) Contingencies (specify):						
TOTALS	1866.39	5002.83	6869.78	989.69	4948.89	5938.58

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

Date July 5 1952 *Payee Seandia Mining Group John Nesburg

Per _____ Title Partner

*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:

MP

$ 494.85

Signature _____ (Authorized Certifying Officer)

Date 8/4/52 Vou. No. _____ (See other side)

*/Prevously included under operating equipment purchased

**Others A frame material used for shaft.

$420.08 Included in Equipment Purchased

(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. 1-60 in accordance with the terms of the contract.

Signature Edward A. Magill Title Mng. Eng. Date July 9, 1960

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Glenn A. Reed Title Mng. Eng. Date 7/9

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

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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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 25 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195[illegible] Docket No. DMEA [illegible] Contract No. 60
Operator's Name Theo. John Donald Effie Nesburg, Nathanius Minerals Zinc
Address 32 E 27th, Ave Spokane, Washington

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	Ft	1960.89	69	5315.76	185	28.73		
Crosscutting								
Raising								
Shafts	Ft	0	0	1654.00	22.5	73.51		
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1960.89		6969.76				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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.

Scandia Mining Group

Date July 5 1952 Operator John Nesburg

Per _____ Title Partner

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.

U. S. GOVERNMENT PRINTING OFFICE 205676

June 1952

Item	Date	Labor & Sup. Op. Labor	Mat'l & Sup. Surveying	Mat'l & Sup. Tbr.	Mat'l & Sup. Explosive	Operating Eq. Carbide	Operating Eq. Power	Dep	Miss. Miss.
Payroll	June	977.01							Booki
Surveying									Repai
C. V. Payne	7/1		150.00						
Avey Lbr. Co.	5/20			24.23					
R. E. Lee Co	6/21				352.21				
R. E. Lee Co.	6/12					4.64			
Kendrick Merc.	6/9					.57			
Tidewater Oil Co.	5/20						117.39		
Tidewater Oil Co.	6/17						141.91		
Signal oil Co.	5/10						4.79		
Shell Oil Co.	6/6						4.94		
Shell Oil Co.	6/16						4.94		
Dep Schedule	June							90.00	
Copco Pac. Ltd.	6/26								9.(
Copco Pac. Ltd.	6/20								65.7
John Nasburg	June								
Bookkeeping									20.0
		977.01	150.00	24.23	352.21	5.21	273.97	90.00	94.

ACTIVI[illegible]ES --- June 1952 Scan[illegible] Mining Group

Spring rain hampered early starting of operations at the mine; however, by the middle of May work was started in converting the existing 18-inch track to 24-inch gage, to accomodate the recently acquired loader. A few projecting points in the drift had to be slabbed off to make room for the wider gage track.

Extension of the drift began on June 3, advancing 8 feet. At this point mineralization appeared to be only on the bottom, therefore, it was decided to back up 20 feet and turn to the right to follow a more promising vein, which has been followed for 60 feet. This change in alinement required considerable slabbing before actual extension of the drift could begin on the new drift.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

Dmea 325

June 13, 1952

Memorandum

To: A. E. Weissenborn, Exec. Officer, DMEA Field Team, Region II

From: Willard P. Puffett, U. S. Geological Survey

Subject: Routine inspection of progress at Scandia Mine, Stevens County, Washington, under DMA Contract Idm-E60.

I inspected the Scandia mining property with E. A. Magill of the U. S. Bureau of Mines, Saturday, June 7, 1952. During the winter no work was done at the property, work having been resumed during the latter part of May, 1952. Since the resumption of work this year, eleven feet of advance had been made in the adit tunnel. This advance was not being made in the direction the mineralized zone apparently trends. The applicants were given instructions as to which direction to take off from the tunnel. No geologic map was made of the eleven feet of new tunnel.

cc: USGS (SRO)
USBM (2)
DMEA

M. E. Volin, Member, DMEA Field Team, Reg. II June 18, 1952

E. A. Magill, Mining Engineer, Bureau of Mines

Routine progress examination, Nasburg and Hallenius (Scandia Mining Group), Stevens County, Wash., Contract Idm-E60, Docket No. DMEA 325X (zinc)

An examination was made of the subject property on June 7, 1952, in company with Willard Puffett of the U. S. Geological Survey.

Since the last visit the face of the main crosscut has been advanced some 7 feet. This work has carried the crosscut through the ore lens. It was recommended to the Operators that they turn the crosscut rather sharply to the north and follow along the structure exposed on the hanging wall of the lens. The operators were further advised to reduce the size of their heading as they are carrying it almost 8 feet wide.

The operators have purchased at their own expense an old Model 11, Emico mucking machine and a 2-ton side dump car.

A topographic map of the property tying in all the workings has been made by C. V. Payne, registered land surveyor.

E. A. Magill

Orig. to files
cc: USGS (2)
Wash. (2)
EAM

M. E. Volin, Member, DMEA Field Team, Reg. II May 21, 1952

E. A. Magill, mining engineer, Bureau of Mines

Routine progress examination, Nasburg and Hallenius (Scandia Mining Group), Stevens County, Wash., Contract Idm-E60, Docket No. DMEA 325 (zinc)

An examination was made of the subject property on May 15, 1952. I was accompanied by Willard Puffett of the USGS.

At the time of the visit the operators were constructing a cabin at the bottom of the hill below the mine. This cabin does not come under the exploration contract. Operations under the project had not been commenced for the 1952 field season.

The work under the exploration contract has disclosed a very nice lens of zinc ore. The operators have a total of $2551.11 remaining in their contract (Government share $1275.55); this amount will not be sufficient to explore the extent of their discovery. They have inquired about additional Government assistance after the money under the present contract is exhausted. They were advised that if they submitted a request with a map outlining exactly what they wished to do, an attempt would be made to obtain additional funds under the present contract.

E. A. Magill

Orig. to files
cc: USGS, Spokane
2 cys - Wash.
EAM

WASHINGTON

STEVENS COUNTY

February 1, 1952

T., J., D., and L. Nasburg, and R. Hallenius (Scandia mine), Idn-460, Zn

50-50 of $7,560.00

5 months

The work on this project includes extending the present heading 100 feet on vein, and exploring a surface zinc showing by 150 feet of sinking and drifting.

The 100 feet of drifting was completed in September with a showing of low-grade mineralization in the face and shaft-sinking the surface showing initiated. Barren rock was encountered and it was deemed more feasible to suspend sinking and allot the remaining funds in the project to extending the original drift. By the time operations were suspended in October, this drift had been extended 17 feet and had intersected a flat-dipping zone of ore assaying in excess of 15 percent zinc over a three foot thickness. The remaining drifting, when work resumes in the spring, will further explore this ore zone.

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. Idm-E 60

Name of Operator Theo., John, Donald, John Effie Nasburg and Raleigh Hallenius
Docket No. DMA 325X
Total Contract Amount $ 7560.00
Government Participation: 50 % Amount, $ 3780.00
Distribution of Expenditures for Month of Aug. 24, to Oct. 1, 1951

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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.

Scandia Mining Group
(Name of Company)

By Donald Nasburg
(Signature of Authorized Official)

Oct. 15, 1951
(Date)

Partner
(Title)

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.

16—64068-3

RECEIVED
U. S. BUREAU OF MINES
OCT 1 9 1951
ALBANY, OREGON

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	*207.52	77.25	284.77			
(b) Rented[2]	437.67	334.50	772.17			
(c) Furnished by operator	90.00	- - - -	90.00			
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

* Pipe, Rail, Misc. Supplies

16—64068-3

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	634.00	975.00	1609.00			
5. Supervision						
6. Supplies						
(a) Timber						
(b) Explosives	212.65	212.94	425.59			
(c) Repair Parts	24.78	18.59	43.37			
(d) Other	27.25	61.64	88.89			
7. Power	* 89.71	129.97	219.68			
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability						
(c) Workmen's Compensation	54.00	- - - -	54.00			
O.A.B.	17.96	- - - - -	- 17.96			
10. Contract Work	562.50	- - - - -	- 562.50			
11. Other (specify) Freight	4.88	7.68	12.56			
Total	2362.92	1817.57	4180.49			
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by BS.
Entered by
Approved by Glenn O. Reed
Amount approved for payment $1,181.46
Remarks

* Gas and Oil Supply

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF Aug. 24 to Oct. 1, 51

(Supply Data Below Applicable Only to Your Operations)

U. S. BUREAU OF MINES
RECEIVED
OCT 1 9 1951
ALBANY, OREGON

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting	304.32	348.39	112.05	*4.56	769.32	ft	31	69	100	100
Crosscutting										
Raising										
Shafts **	892.18	386.80	242.34**	**72.28	1593.60	ft	22½	none	22½	50
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	1196.50	735.19	354.39	76.84	2362.92	ft	53½	69	122½	

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

* Includes O.A.B.
** Includes 562.50 Contract
*** Includes O.A.B., Work Comp. and Freight

Narrative of Scandia Projeft

On Sept. 6, 1951 the contract of 100 feet of drift was completed. The mineral showing throughout the entire loo feet was very much the same. The drift is now 143 feet with a very well mineralized face and sidewalls.

We started the shaft of approxiamately 50 feet which showed very peer. The shaft is now to a depth of ~~17~~ 22.5 feet.

U. S. BUREAU OF MINES
RECEIVED
OCT 1 9 1951
ALBANY, OREGON

Standard Form No. 1034a—Rev.
Form approved by
Comptroller General, U. S.
May 26, 1938
(Amended August 15, 1941)

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

COPY

D. O. Vou. No. _____
Bu. Vou. No. DMA-34

GENERAL ACCOUNTING OFFICE PREAUDIT
Certified for payment in the sum of $_____
Comptroller General of the United States
By_____

U. S. Department of the Interior, Bureau of Mines
(Department, bureau, or establishment)

Voucher prepared at Albany, Oregon Oct. 25, 1951
(Give place and date)

THE UNITED STATES, Dr.

To Scandia Mining Group
(Payee)

Address 32 East 29th Avenue, Spokane, Washington

Payee's Account No. _____

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 general supply schedule, and other information deemed necessary) Terms _____ % Discount Cash _____ days	Quantity	UNIT PRICE Cost	UNIT PRICE Per	AMOUNT Dollars	AMOUNT Cts.
		Brought forward from continuation sheet(s)					
	8/24-10/1/51	Per certified Form MF-104, dated 10/15/51, attached				1,181	46

Shipped from _____ to _____ Weight _____ Government B/L No. _____ Total 1,181 46

(Payee must NOT use this space)
Differences _____
Account verified; correct for 1,181 46
(Signature or initials) _____

Contract No. Idm-E60 Date 7/16/51 Req. No. _____ Date _____ Invoice Rec'd _____

1,181.46

MEMORANDUM

ACCOUNTING CLASSIFICATION (for completion by Administrative Office)

Appropriation, limitation, or project symbol	Appropriation title	Limit'n or Proj't *Amount*	Appropriation *Amount*
14X4401	Revolving Fund, Defense Production Act, Interior	1,181.46	1,181.46

Allotment symbol	Amount	Obligations liquidated	COST ACCOUNT Symbol	COST ACCOUNT Amount	OBJECTIVE CLASSIFICATION Symbol	OBJECTIVE CLASSIFICATION Amount

Paid by { Check No. _____ dated _____, 19____, for $_____ on Treasurer of the United States in favor of payee named above.
Cash, $_____, on _____, 19____. Payee _____
(Sign original only)

*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.
† If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign in the blank space below "Approved for $_____", and over his official title.

Per _____
Title _____

16—22900a-1

METHOD OF OR ABSENCE OF ADVERTISING

(Section 3709 of the Revised Statutes)

1. After advertising in newspapers.

2. (*a*) After advertising by circular letters sent to ..... dealers.

   (*b*) And by notices posted in public places.

   (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made. The notation on the certificate on the face of the voucher must be "2 (*a*) (*b*)" or "2 (*a*)", depending on whether or not notices were posted.)

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, Supplement No. 6, General Accounting Office, Aug. 20, 1930.)

U. S. GOVERNMENT PRINTING OFFICE 16—22900-1

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. Idm-E 60

Name of Operator Theo., John, Donald, Effie Nasburg and Raleigh Hallenius
Docket No. DMA 325X
Total Contract Amount $ 7560.00
Government Participation: 50 % Amount, $ 3780.00
Distribution of Expenditures for Month of Aug. 24, to Oct. 1, 1951

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

Defense Minerals Administration
RECEIVED
MAR 10 1952

CERTIFICATION

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.

Scandia Mining Group
(Name of Company)

By /S/ Donald Nasburg
(Signature of Authorized Official)

Oct. 15, 1951
(Date)

Partner
(Title)

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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment: *						
(a) Purchased[1]	*207.52	77.25	284.77			
(b) Rented[2]	437.67	334.50	772.17			
(c) Furnished by operator	90.00	- - -	90.00			
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

16—64068-3

*Pipe, rail, misc. supplies.

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	634.00	975.00	1609.00			
5. Supervision						
6. Supplies						
(a) Timber						
(b) Explosives	212.65	212.94	425.59			
(c) Repair Parts	24.78	18.59	43.37			
(d) Other	27.25	61.64	88.89			
7. Power **	89.71	129.97	219.68			
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability						
(c) Workmen's Compensation	54.00		54.00			
O.A.B.	17.96		17.96			
10. Contract Work	562.50		562.50			
11. Other (specify) Freight	4.88	7.68	12.56			
Total	2362.92	1817.57	4180.49			
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

** Gas & Oil Supply

FOR GOVERNMENT USE ONLY

Checked by /S/ J. B. Sanders
Entered by
Approved by /S/ Glenn C. Reed
Amount approved for payment $1,181.46
Remarks

16—64068-3

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF Aug. 24 to Oct. 1.

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting	304.32	348.39	112.05	** 4.56	769.32	ft.	31	69	100	100
Crosscutting										
Raising										
Shafts	* 892.18	386.80	242.34	***72.28	1593.60	ft.	22½	none	22½	50
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	1196.50	735.19	354.39	76.84	2362.92	ft.	53½	69	122½	

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

* Includes 562.50 contract
** O.A.B.
*** Includes O.A.B., Work Comp. and Freight.

Narrative of Scandia Project

On Sept. 6, 1951 the contract of 100 feet of drift was completed. The mineral showing throughout the entire 100 feet was very much the same. The drift is now 143 feet with a very well mineralized face and sidewalls.

We started the shaft of approximately 50 feet which showed very poor. The shaft is now to a depth of ~~17~~ 22½ feet.

Drift advance 31' Formation
31 @ 22.86 / foot
100' advance total @ 25.86 / foot

Estimated cost $25.00 / foot

Shaft Finishing 70.03 / foot
22½ @

Estimated $60.00 / foot

U. S. BUREAU OF MINES
RECEIVED
OCT 1 9 1951
ALBANY, OREGON

Standard Form No. 1034a—Rev.
Form approved by
Comptroller General, U. S.
May 26, 1938
(Amended August 15, 1941)

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

D. O. Vou. No. _____
Bu. Vou. No. DMA-7

GENERAL ACCOUNTING OFFICE PREAUDIT
Certified for payment in the sum of $_____
Comptroller General of the United States
By _____

U. S. Interior Mines
(Department, bureau, or establishment)

Voucher prepared at Albany, Oregon Sept. 12, 1951
(Give place and date)

THE UNITED STATES, Dr.,

To Scandia Mining Group
(Payee)

Address c/o Donald Nasburg, Spokane, Washington

Payee's Account No. _____

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 general supply schedule, and other information deemed necessary) Terms ____% Discount Cash ____ days	Quantity	UNIT PRICE Cost	UNIT PRICE Per	AMOUNT Dollars	AMOUNT Cts.
		Brought forward from continuation sheet(s)					
	July 24 - Aug. 24, 1951	Per certified Form MF-104, dated Aug. 27, 1951, attached				908	78

Shipped from _____ to _____ Weight _____ Government B/L No. _____ Total 908 78

(Payee must NOT use this space)
Differences _____
Account verified; correct for 908 78
(Signature or initials) _____

Contract No. Idm-E60 Date 7/16/51 Req. No. _____ Date _____ Invoice Rec'd _____

908.78

MEMORANDUM

ACCOUNTING CLASSIFICATION (for completion by Administrative Office)

Appropriation, limitation, or project symbol	Appropriation title	Limit'n or Proj't Amount	Appropriation Amount
14X4401	Revolving Fund, Defense Production Act, Interior		908.78

Allotment symbol	Amount	Obligations liquidated	COST ACCOUNT Symbol	COST ACCOUNT Amount	OBJECTIVE CLASSIFICATION Symbol	OBJECTIVE CLASSIFICATION Amount

Paid by { Check No. _____ dated _____, 19____, for $_____ } on Treasurer of the United States in favor of payee named above.
{ Cash, $_____, on _____, 19____, Payee _____ }
(Sign original only)

* 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.
† If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign in the blank space below "Approved for $_____", and over his official title.

Per _____
Title _____

16—22900a-1

METHOD OF OR ABSENCE OF ADVERTISING

(Section 3709 of the Revised Statutes)

1. After advertising in newspapers.
2. (*a*) After advertising by circular letters sent to _____ dealers.

   (*b*) And by notices posted in public places.

   (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made. The notation on the certificate on the face of the voucher must be "2(*a*) (*b*)" or "2(*a*)", depending on whether or not notices were posted.)

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, Supplement No. 6, General Accounting Office, Aug. 20, 1930.)

U. S. GOVERNMENT PRINTING OFFICE: 1946 O-88934 16—22900-1

MF-104
(August 1951)
April

7

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E

Name of Operator Scandia Mining Group
Docket No. DMA 325 X
Total Contract Amount $ 7,560.00
Government Participation: 50 % Amount, $
Distribution of Expenditures for Month of July 24 to Aug. 24, 1951

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—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.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

MAR 10 9 00 AM '52
DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.

CERTIFICATION

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.

Scandia Mining Group
(Name of Company)

By /S/ Donald Nasburg
(Signature of Authorized Official)

Aug. 27, 1951
(Date)

Partner
(Title)

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.

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only ✓ Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:	ITEM					
(a) Facilities	Wages and salaries			975.00	- -	975.00
	Equipment purchase			77.25	- -	77.25
	Equipment rental			334.50	- -	334.50
	Explosives			212.94	- -	212.94
	Repair parts			18.59	- -	18.59
(b) Buildings	Other supplies			61.64	- -	61.64
	Power			129.97	- -	129.97
	Other (Freight)			2.68	- -	2.68
	(Assays)			5.00	- -	5.00
(c) Fixtures			TOTAL-	1817.57		1817.57
		TOTALS TO	DATE -	1817.57		1817.57
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]						
(c) Furnished by operator						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

MONTHLY SUMMARY COST STATEMENT

Distribution of Expenditures for Month of July 24 to Aug. 24, 1951

Item	Monthly Total	Totals Previously Reported	Totals to Date
Wages and salaries	975.00	none	975.00
Equipment purchase	77.25	none	77.25
Equipment rental	334.50	none	334.50
Buildings			
Explosives	212.94	none	212.94
Repair parts	18.59	none	18.59
Other supplies	61.64	none	61.64
Power	129.97	none	129.97
Transportation			
Withholding taxes			
Compensation insurance			
Other insurance			
Contract work			
Other (specify) Freight	2.68		2.68
Assays	5.00		5.00
TOTAL	1817.57		1817.57
Totals previously reported	none	none	none
Totals to date	1817.57	none	1817.57

DISTRIBUTION OF WAGES AND SALARIES FOR MONTH OF

Type	Number	Man-Shifts	Rate	Total
Miners	1	25	$13.00	$325.00
Muckers	2	50	13.00	650.00
Trammers				
Timbermen				
Pumpmen				
Hoistmen				
Surface				
Samplers				
Assayers				
Shift bosses				
Mechanics				
Electricians				
Blacksmiths				
Carpenters				
Drill runners				
Drill helpers				
Teamsters				
Manager				
Superintendent				
Engineers				
Geologists				
Bookkeeper				
Foreman				
Clerks				
Stenographers				
Other				
TOTAL	3	75	13.00	975.00

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(*d*) Fixtures						
4. Labor [3]						
5. Supervision						
6. Supplies						
(*a*) Timber						
(*b*) Explosives						
(*c*) Repair Parts						
(*d*) Other						
7. Power						
8. Transportation						
9. Insurance						
(*a*) Fire						
(*b*) Public Liability						
(*c*) Workmen's Compensation						
10. Contract Work						
11. Other (specify)						
Total						
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

Note.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by .....

Entered by .....

Approved by .....

Amount approved for payment .....

Remarks .....

.....

.....

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF July 24 to Aug. 24, 1951

(Supply Data Below Applicable Only to Your Operations)

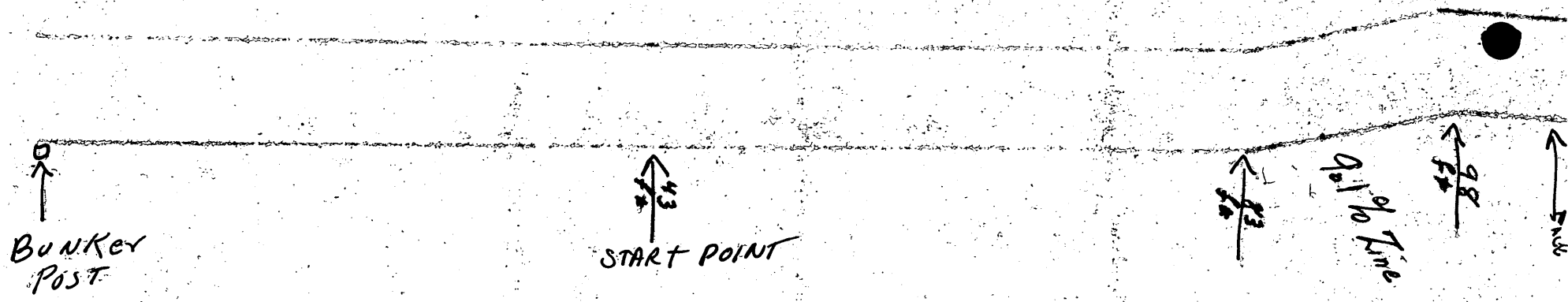
Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting	975.00	411.75 ~~334.50~~	293.17 ~~500.39~~	129.97	1809.89	Ft.	69	none	69	150
Crosscutting										
Raising										
Shafts										50
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying				5.00	5.00					
Roads and trails										
Test pits										
Other (specify) Freight				2.68	2.68					
(1) Power										
Totals	975.00	411.75 ~~334.50~~	293.17 ~~500.39~~	137.65 ~~7.68~~	1817.57	Ft.	69	none	69	200

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

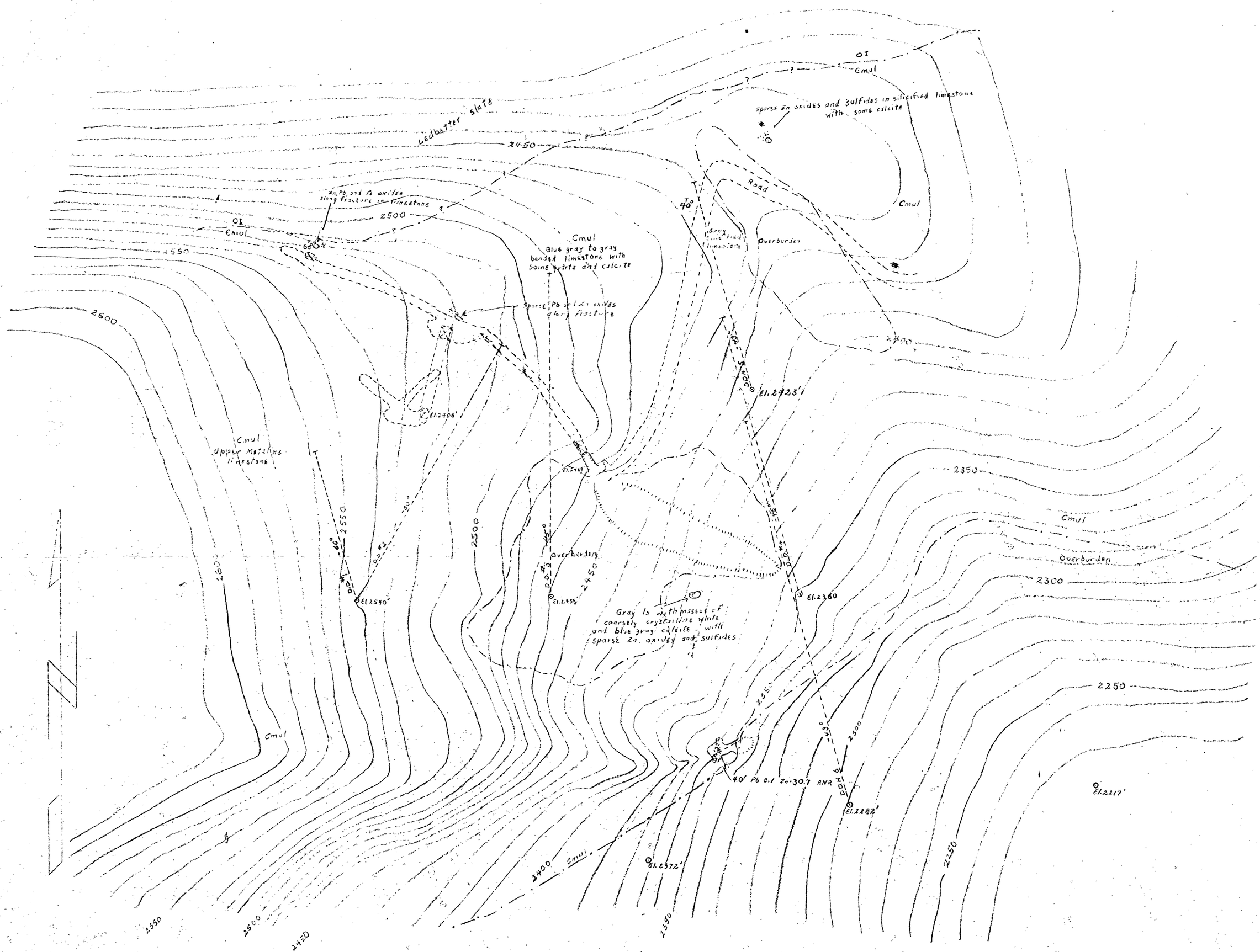
Narrative of Scandia Mining Claim

To date, August 24, 1951 we have extended the drift to 108 ft., which has followed a fairly well defined Zinc vein. This vein has been as much as 20 inches wide in some places. At a point of about 83 ft., the vein turned to the left and seemed to separate into several small veins which were across the whole face. At about 90 ft. we encountered a slightly oxidized and fractured zone, showing some lead, however we have now practically gone through oxidation and now have a fairly good vein of zinc running diagonally across the face. At 95 ft. an assay sample was taken running 9.1% zinc.



Note
Government Assay at 43 feet showed 0.1 lead, 6.1 zinc
At 95 feet we took sample showing 9.1 zinc.

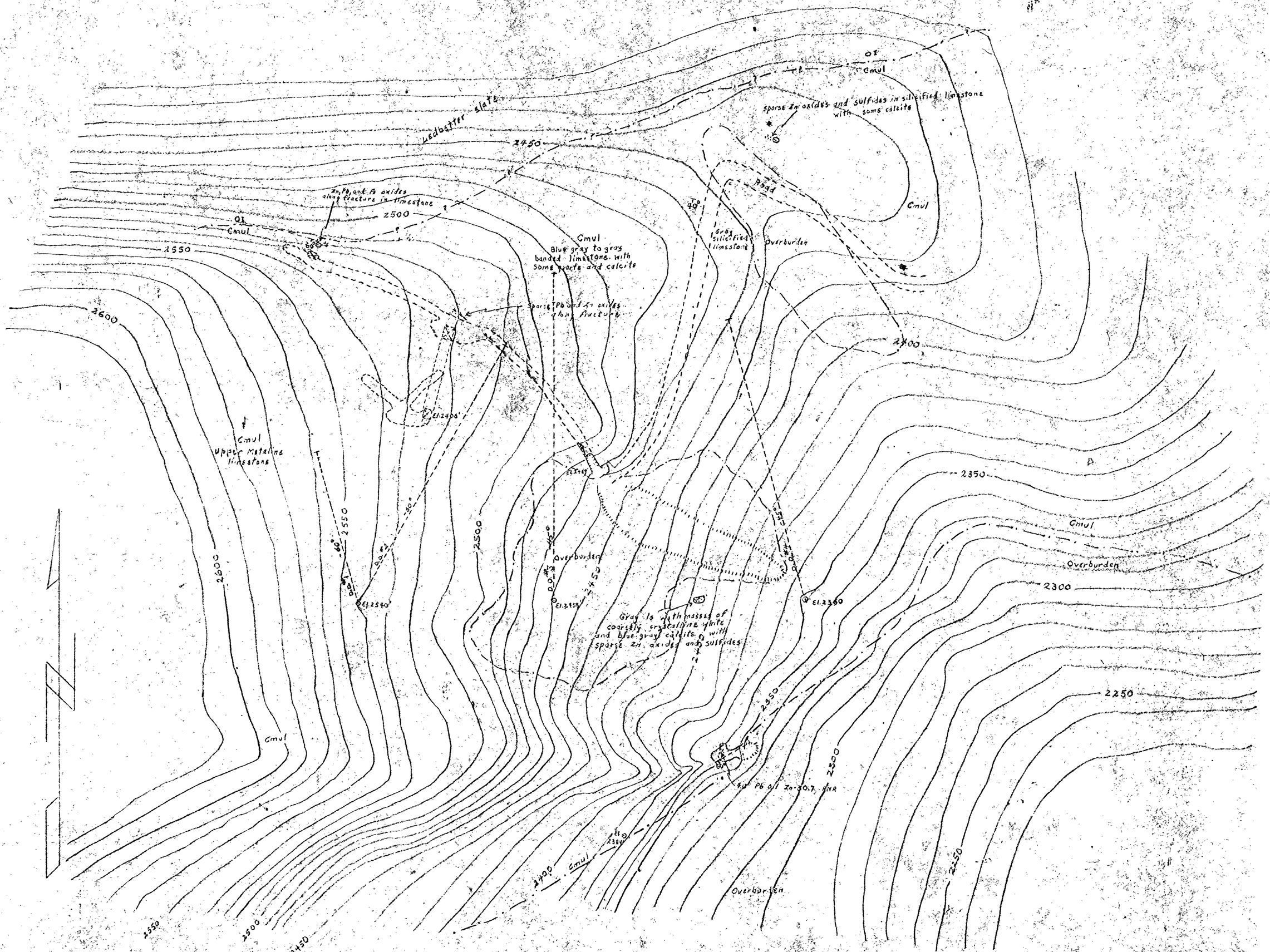
3/16" = 2 ft



Scandia Prospect
Stevens Co., Washington

1" = 50'
Elevation assumed
Magnetic bearing

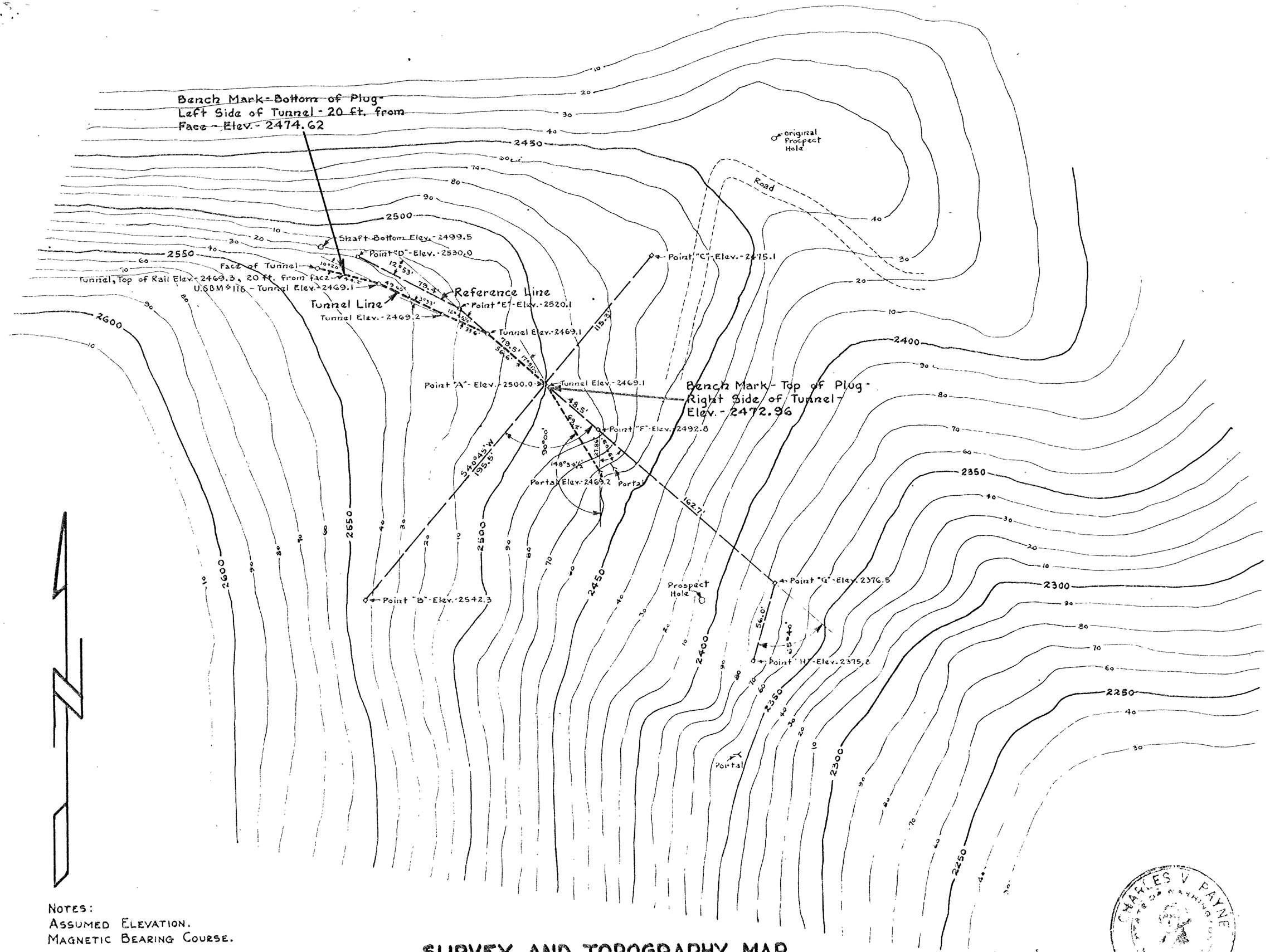
GRANDVIEW MINES



Scandia Prospect
Stevens Co., Washington

1" = 50'
Elevation assumed
Magnetic bearing

Oct. 1, 1956



NOTES:
ASSUMED ELEVATION.
MAGNETIC BEARING COURSE.

SURVEY AND TOPOGRAPHY MAP
SCANDIA MINING CLAIM
SCALE: 1" = 50'
JULY 24, 1952
STEVENS COUNTY, WASHINGTON

C.V. PAYNE
REGISTERED LAND SURVEYOR
E. 324 WELLESLEY AVE.
SPOKANE 22, WASHINGTON