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

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

D. O. Vou. No. w

Bu. Vou. No. 1367

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

Voucher prepared at Spokane 12/10/54
(Give place and date)

THE UNITED STATES, Dr., Payee's Account No. Idm-1605

Amt A-3073

To Grandview Mines
(Payee)

310 Radio Central Building, Spokane 4, Washington
(Address) (City) (State)

PAID BY
Betty
(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.
	July 1954	Balance withheld when payment was made 11/2/54 under Voucher No. 1337. Was held up pending final audit.				200.00	
PAYMENT: Complete ☐ Partial ☐ Final ☐		FINAL PAYMENT					
		Use continuation sheet(s) if necessary					

Shipped from to Weight Government B/L No. Total 200.00

(Payee must NOT use this space)

Differences _____

Account verified; correct for _____ 200.00

(Signature or initials) _____

Contract No. Date Req. No. Date Invoice Rec'd.

200.00

MEMORANDUM

Myrtle I. Purdy

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 Minerals Production Act	$200.00	$200.00

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

3073
2929

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

Department of the Interior
Defense Minerals Administration
RECEIVED
NOV 8 - 1954

Month of July, 1954 Docket No. DMEA 3073 Contract No. IDE-2605
Operator's Name Grandview Mines Minerals Pb-Zn
Address 310 Radio Central Bldg., Spokane 4, Washington
Contract Amount, $ 36,400 Government Participation: 50% Amount, $ 18,200

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:		6,195.00			6195.00	6195.00
		4,802.00			4802.00	4802.00
Drilling	$4,081.00	6,146.00	$27,195.00	4081.00	6146.00	10,227.00
Bulldozing		5,971.00			5971.00	5971.00
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):						
TOTALS	$4,081.00	$23,114.00	$27,195.00	4081.00	23114.00	27195.00

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

Date 8/10/54 *Payee Grandview Mines

Per Karl W. Jaspe 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)

2040.50
withheld 200.00
1840.50

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

$ 1840 50

Signature MEP
(Authorized Certifying Officer)

Date 11/3/54 Vou. No. 1337
(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 605 in accordance with the terms of the contract.

Signature 151 Webster S Anderson Title Mining Engr Date 8-26-54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Stephen N Zoldak Title Mining Engr Date 9/7/54

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.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 8 - 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1954 Docket No. DMEA 3073 Contract No. IDM-605
Operator's Name Grandview Mines Minerals Pb-Zn
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	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	$4,081.00	583'	$27,195.00	3885'	$7.00	5200'	$7.00
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS								
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$4,081.00		$27,195.00				

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 8/10/54 Operator Grandview Mines

Per Karl W. 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)

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 Description of Progress In July, 1954 under
DMEA Docket No. 3073.

Minerals Administration
RECEIVED
NOV 8 1954

Assays from Lotze DD#5, 6, & 8, received in July, gave the following results:

	Interval	Ag	Pb	Zn	Au	Fe
Lotze #5n	398-404.2	0.25	0.2	Tr	Tr	34.46
Lotze #6	318.5-324.5	0.5	0.5	Tr	Tr	37.86
	324.5-332.5	Tr	0.4	Tr	0.05	29.24
Lotze #8	407-411			Tr		

Lotze DD #9 was drilled at -90° from a point about 196 feet north of DD #6 at elevation 2642 feet. The hole was drilled in overburden for 7 feet and in black slate with some thin bands of calcite and a few spots and seams of pyrite and pyrrhotite to 379 feet. From 379' to 411' the core was impure slaty gray dolomite with minor bands of slate.

From 411 to 476 feet the rock encountered was the coarsely crystalline gray dolomite in which strong pyrite zones were encountered in other drill holes. Yellow pyrite on seams and in spots increased in abundance near 476 feet but did not exceed a few percent of the core.

From 476 to 477 feet a 1' pyrite band was encountered which contained a few minute particles of PbS and some primary red hematite. The pyrite graded into a black coarsely cryatalline dike after 476 feet. The remainder of the hole was drilled in the black dike and a few feet of altered dolomite to 483 feet.

Drilling on this project was stopped at the end of this hole as the thick pyrite band encountered in other holes had thinned to about one foot to the east and northwest, and was not encountered to the west. The lead and zinc mineralization remained too weak to warrant further drilling.

DIAMOND DRILL RECORD

Standpipe
Casing 7' BX drive

Started 7/7/54
Finished 7/29/54
Hole Size AX
Depth 483
% Core Rec. 96

Mine Lotze
Location Currant Cr. Stevens Co., Wash.

Logged by Eskil Anderson Date 7/29/54
Drilled by Akers & Link (Boyles)

Hole No. 9
Level
Grid
Latitude
Departure
Elevation 2642
Bearing
Inclination -90°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-7	0	Overburden							
7-147	BX	BX core set aside for observation but not in boxes. Black slate as below.							
147-379	232	Black slate with some find white calcite bands parallel to bedding, some pyrite and pyrrhotite. Bedding at about 20° to plane across core. Slate siliceous and very hard to drill, gradually becomes more calcareous with some white calcite and dolomite bands up to 6" thick after 235'.							
379-411	30	Impure slaty gray dolomite with minor bands of slate. At 388-395 crossed black gouge representing crushed zone overlying dolomite in all holes							
411-476	65	Medium to coarsely xline dolomite in which strong pyrite zones were encountered in other holes. Yellow pyrite on seams and in spots increasing in abundance but not exceeding few percent towards 476							
476-477	1	~~XX~~ 1' pyrite and pyrrhotite with some red primary hematite & minute specks of PbS. Pyrite grades into black dike.							
477-477.5	0.5	Black coarse xline dike with little pyrite							
477.5-480	2.5	Altered vuggy dolomite with qtz ~~Black coarse xline dike with a little pyrite~~ xls in vugs.							
480-483	3.0	Basic dike with white and green talc							

BOYLES BROS. DRILLING COMPANY
Salt Lake City 4, Utah

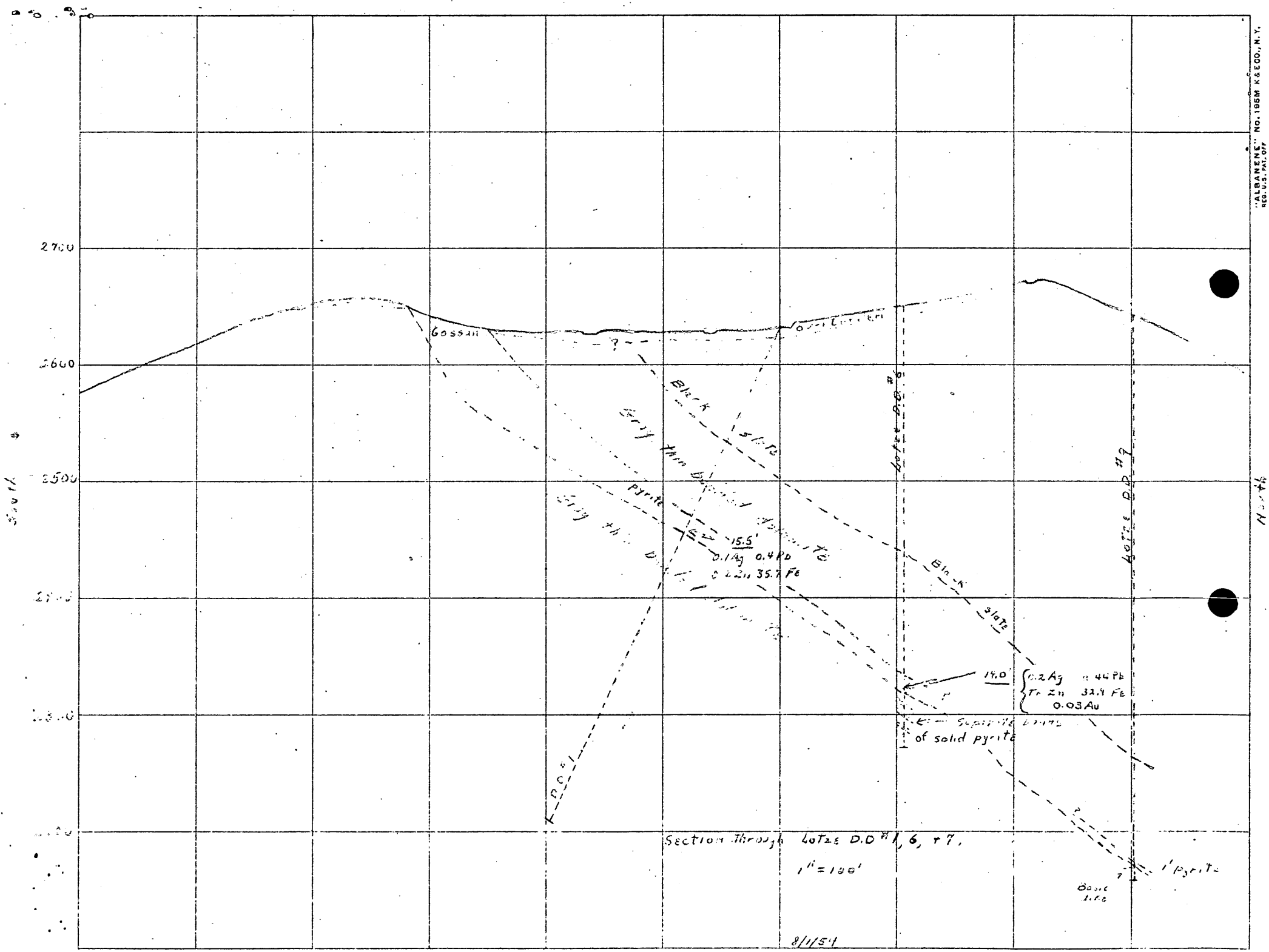
I hereby certify that during the month of July, 1954 Boyles Bros. Drilling Company, under my supervision, completed 583 feet of diamond drilling on the Lotze Property, Stevens County, Washington on behalf of Grandview Mines, Spokane, Washington.

Footages were distributed as follows:

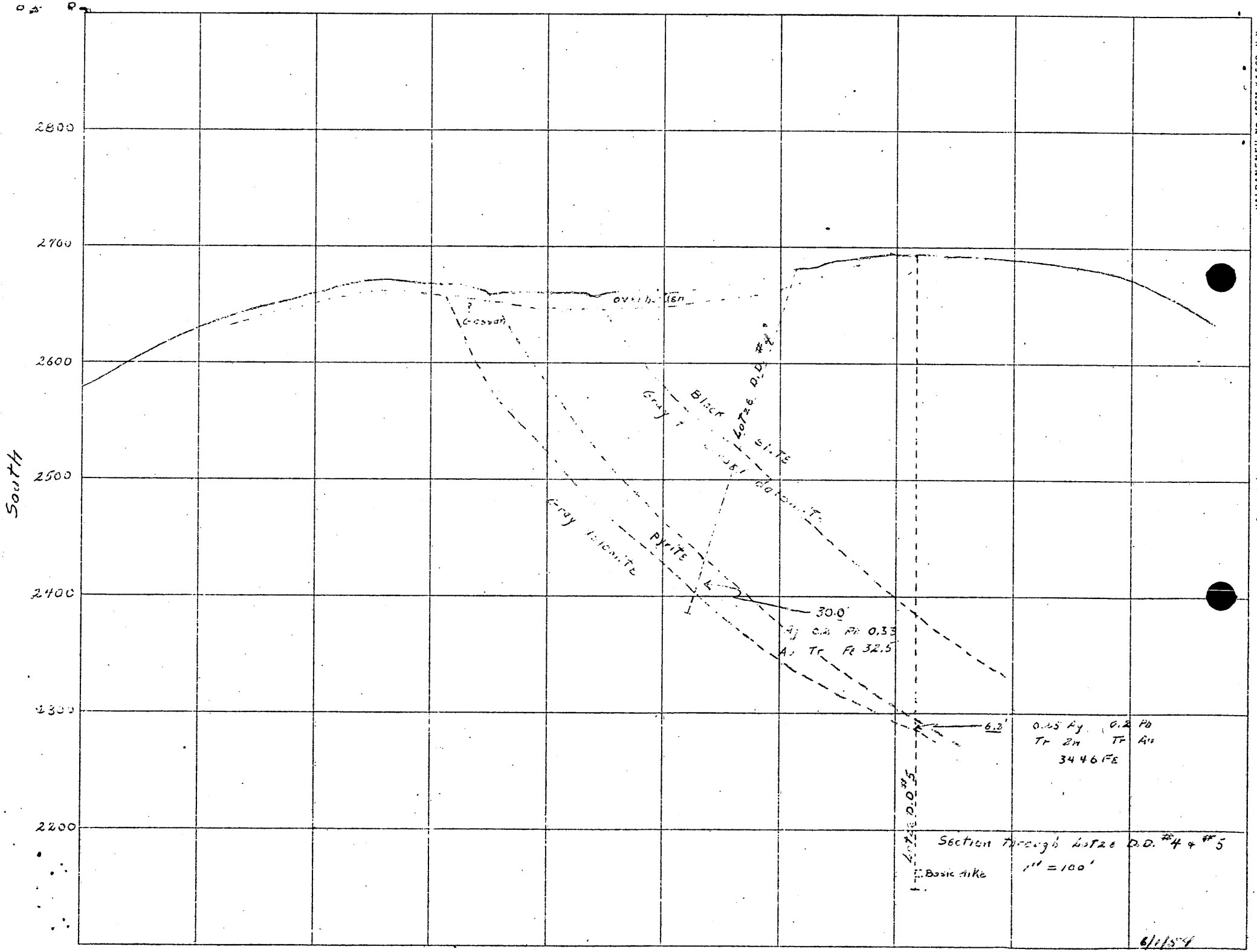
Hole #6	100 feet
Hole #9	483 feet
Total	583 feet

August 3, 1954

Tom Howard
Tom Howard, Foreman
Boyles Bros. Drilling Co.
Colville, Washington



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


2800
2700
2600
2500
2400
2300
2200
South
North
overburden
Gossan
Black Lotze D.D. #2
Gray
Silt
Gray Limonite
Pyrite
30.0'
Ag 0.4 Pb 0.33
Au Tr Fe 32.5
6.2'
0.25 Ag 0.2 Pb
Tr Zn Tr Au
34.46 Fe
Lotze D.D. #5
Basic dike
Section through Lotze D.D. #4 & #5
1" = 100'
6/1/54
"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

Defense Minerals Administration
RECEIVED
JUL 30 1954

Budget Bureau No. 42-R1036.4
Approval Expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [illegible], 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $[illegible] Government Participation: [illegible]% Amount, $[illegible]

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:	[illegible]	[illegible]	[illegible]			
Drilling				5971.00	17143.00	23114.00
Bulldozing						
Crosscutting						
Drifting						
						Betty 8/3/54. J.W.A.
(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):						
TOTALS	[illegible]	[illegible]	[illegible]	5971.00	17143.00	23114.00

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

Date [illegible] *Payee [illegible]

Per [illegible] Title [illegible]

*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:

$ 2985.50

Signature MJP
(Authorized Certifying Officer)

Date 7/26/54 Vou. No. 1233

(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 605 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Engr Date 7/19/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 7/19/54

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval Expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1954 Docket No. DMEA 3073 Contract No. Idm-E605
Operator's Name GRANDVIEW MINES Minerals Pb-Zn
Address 310 Radio Central Bldg., Spokane 4, 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 $7.00	ft.	$5971.00	853'	$23,114.00	3302'	$7.00	5200'	$7.00
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$5971.00		$23,114.00				

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 7/12/54 Operator GRANDVIEW MINES

Per [signature] 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)

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

Colorado Minerals Exploration
RECEIVED
JUL 30 1954

Narrative Description of Progress in June, 1954

under DMEA Docket No. 3073

Only the iron assays were received during the month for core from Lotze D.D. #5 and #6 drilled in May and June. Lead and zinc assays are being made.

The 6.2 feet ofcore in D. D. #5 from 398.0 to 404.2 feet assayed 34.46% Fe, all in pyrite. In D. D. #16 the assays of the pyrite zone from 318.5 to 332.5 feet averaged 32.9% Fe across a width of 14 feet.

Lotze D.D. #7 was drilled from about 170 feet west of #6 at -90° to a depth of 405 feet . It did not encounter any significant mineralization. The pyrite bearing dolomite band of holes #1, #4, #5, and #6 was not recognized. For 190 feet the hole was drilled in black slate which dips at 30° to 45° to the north. Impure slaty dolomite often with much soft talcy material comprised the core from 190 feet to 405 feet with only a very small amount of pyrite between 210 feet and 255 feet. Core recovery was very good.

Lotze D.D. #8 was drilled at -70° S. to a depth of 500 feet, from about 150 feet east and 75 feet north of D. D. #5. Black slate formed the bedrock to a depth of 211 feet. The slate dips north at from 30° to 45°. Underlying the slate from 211 feet to 398.5 feet is a somewhat impure fine grained gray dolomite with thin slate bands becoming less abundant farther down the section. From 398.5 to 500.0 feet the pure, gray, medium -coarsely crystalline dolomite of the heavy pyrite bearing holes was encountered. However, in this hole the solid pyrite zone had narrowed to two bands, one 5" and one 6" thick, between 467.5 and 469.2. From 406' to 411' very small spots and narrow bands of black ZnS with a few pyrite spots were present but the core is estimated to contain less than ½% Zn for this length. Assays will be listed in the July report.

D. D. #9 was collared at about 190' north of #6 early in July. This is also a vertical hole.

Narrative Description of Progress in June, 1954

under DMEA Project No. 3073

Only the iron assays were received during the month for core from holes D.D. #5 and #6 drilled in May and June. Lead and zinc assays are being made.

The 6.2 feet of core in D. D. #5 from 298.0 to 404.2 feet averaged 34.46% Fe, all in pyrite. In D. D. #16 the assays of the pyrite zone from 318.3 to 372.5 feet averaged 32.9% Fe across a width of 14 feet.

Hole D.D. #7 was drilled from about 170 feet west of #6 at -90° to a depth of 405 feet . It did not encounter any significant mineralization. The pyrite bearing dolomite band of holes #1, #4, #5, and #6 was not recognized. For 190 feet the hole was drilled in black slate which dips at 30° to 45° to the north. Impure slaty dolomite often with much soft talcy material comprised the core from 190 feet to 405 feet with only a very small amount of pyrite between 210 feet and 255 feet. Core recovery was very good.

Hole D.D. #8 was drilled at -70° S. to a depth of 500 feet, from about 150 feet east and 75 feet north of D. D. #5. Black slate formed the bedrock to a depth of 211 feet. The slate dips north at from 30° to 45°. Underlying the slate from 211 feet to 398.5 feet is a somewhat impure fine grained gray dolomite with thin slate bands becoming less abundant further down the section. From 398.5 to 500.0 feet the pure, gray, medium -coarsely crystalline dolomite of the heavy pyrite bearing holes was encountered. However, in this hole the solid pyrite zone had narrowed to two bands one 5" and one 6" thick, between 447.5 and 450.2. From 406' to 411' very small spots and narrow bands of black ZnS with a few pyrite spots were present but the core is estimated to contain less than ½% Zn for this length. Assays will be listed in the July report.

D. D. #9 was collared at about 190' north of #6 early in July. This is also a vertical hole.

DIAMOND DRILL RECORD

Standpipe
Casing BX drive-8'
222' AX
Started 6/14/54
Finished 6/15/54
Hole Size AX
Depth 405.
% Core Rec. 98%

Mine Lotze Prospect
Location Current Cr. Stevens Co. Wash.

Logged by Eskil Anderson Date 6/16/54
Drilled by Howard & Link (Boyles)

Hole No. 7
Level
Grid
Latitude
Departure
Elevation 2578
Bearing 0
Inclination -90

Depth Feet	Feet Core	Lithologic Description	Sample Data						
			No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-190		BX plug and core. Black slate, siliceous near bottom with seams of white calcite and occasional pyrite seams and spots. Banding at about 45°							
190. 405	210	Impure fine grained gray slaty dolomite with minor bands of black slate, banding at 20° to 40°. White calcite seams, abundant but very thin. Also white talcose material and a pinkish bronze talcose mica. Some very thin pyrite bands between 210 and 220. A bout 1" of pyrite between 245' and 255'. Mineralized dolomite band of previous drill holes not present. 3" black dike at 400' and 3' at 402.0'. N.B. Very good core recovery in soft talcose zones as well as in more solid dolomite							

DIAMOND DRILL RECORD

Standpipe
Casing 11' BX drive. 392' AX
Started 6/18/54
Finished 7/3/54
Hole Size AX
Depth 500'
% Core Rec. 83%

Mine Lotze Prospect
Location Current Cr., Stevens Co., Wash.
Logged by Eskil Anderson Date 7/6/54
Drilled by Howard & Lisle (Boyles)

Hole No. 8
Level
Grid
Latitude
Departure
Elevation 2731
Bearing S.
Inclination -70°

Depth Feet	Feet Core	Lithologic Description	Sample Data No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-211	Bx	Black thin bedded slate with white calcite seams parallel to bedding, less than 1/8" thick (usually). Occasionally pyrite and pyrrhotite blobs and thin bands. Bedding at about 5° to 20° from plane across core.	825	407-411	3.5	4.0			
211-343	BX&AX	Dolomite & slate, dolomite becoming predominant towards end of run. Colorless, white, and soapy talc abundant.							
343-398.5	54	Mainly fine grained dolomite with much talcose material, little slate remaining and few spots of pyrite. Much broken soapy material and gouge from 356 to 392 with bad caving. Bedding at almost rt angles to core.							
398.5-500'	85	Gray med. coarsely xline dolomite with slate absent. Dolomite band same as heavy pyrite bearing dolomite of other holes. Occasional spots and seams of yellow pyrite from 405' on. From 406' to 411' small spots and seams of black ZnS with few spots of pyrite (est. less than ½" Zn). 11" of solid pyrite between 467.5 and 469.2 in 5" and 6' band. Banding at about 15° to plane across core. Few spots of pyrite continuing to 500' where hole was stopped. N.B. No commercial mineralization							

BOYLES BROS. DRILLING COMPANY
Salt Lake City 4, Utah

Minerals
RECEIVED

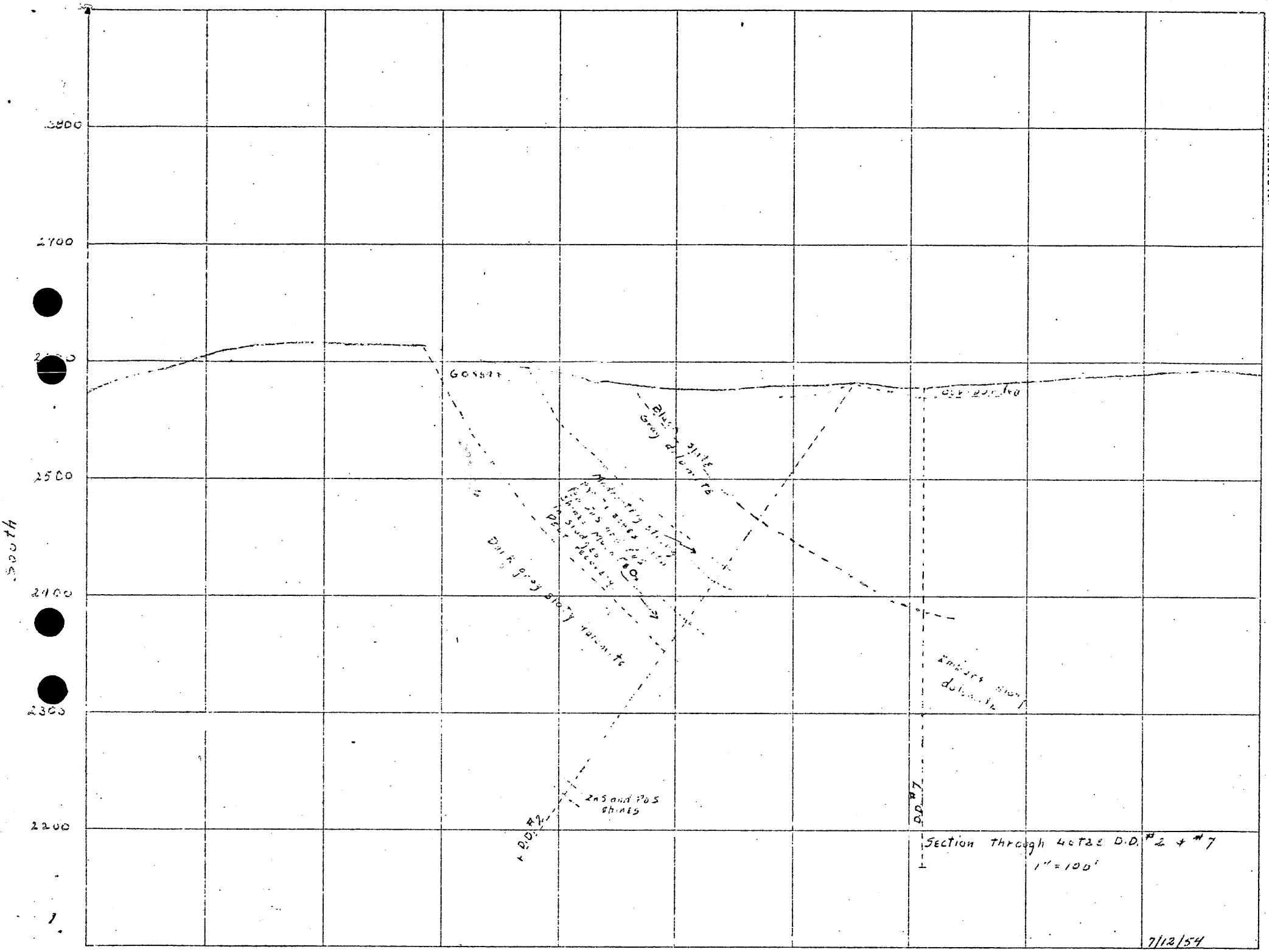
I hereby certify that during the month of June, 1954, Boyles Bros. Drilling Company, under my supervision, completed 853 feet of diamond drilling on the Dosser-Maki-Lotze property, Stevens County, Washington on behalf of Grandview Mines with footages distributed as follows:

Lotze #6	48'
Lotze #7	405'
Lotze #8	400'
Total	853'

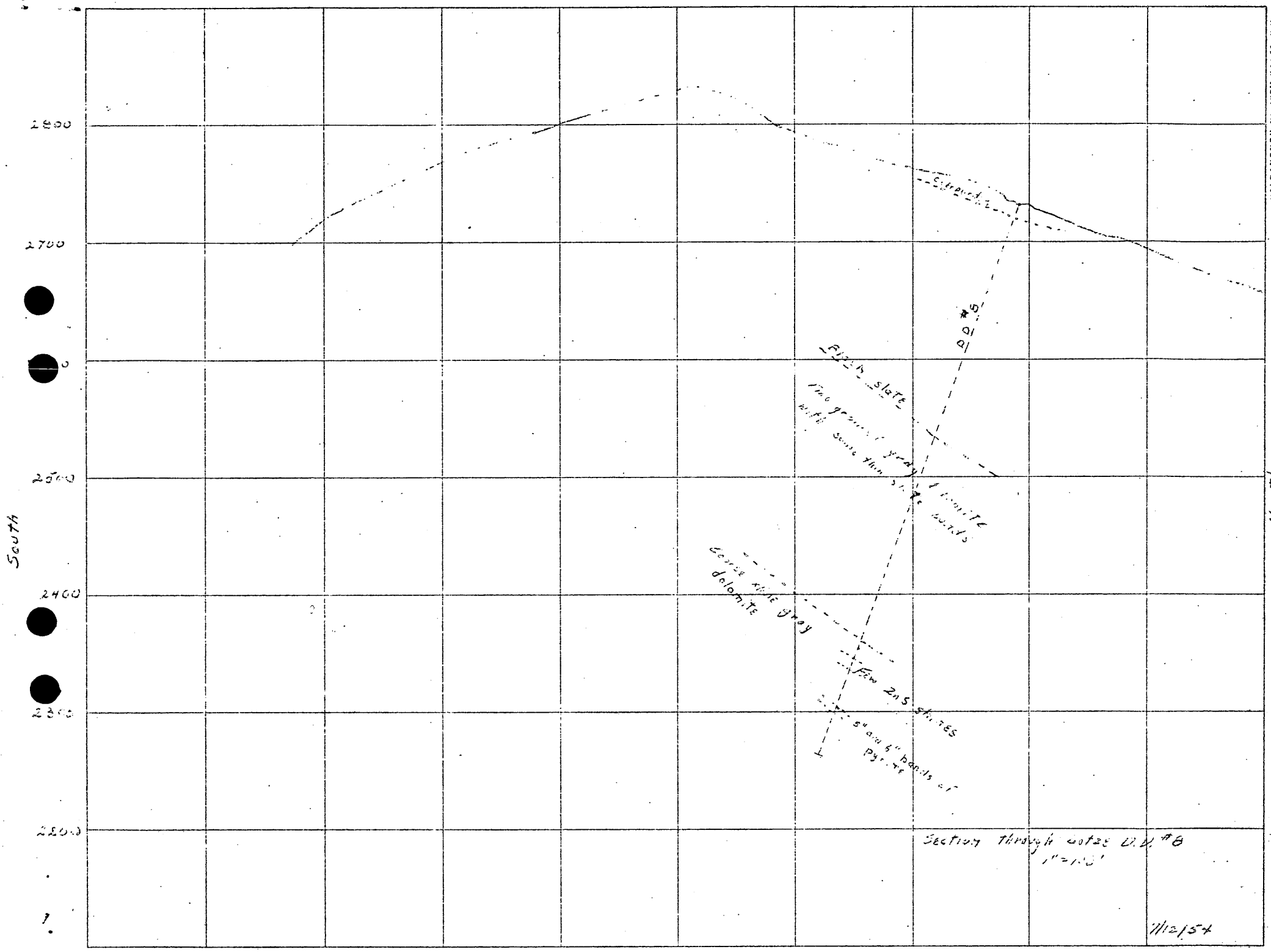
July 8, 1954

Tom Howard

Tom Howard, Foreman
Boyles Bros. Drilling Co.
Colville, Washington



"ALBANENE" NO. 196M K&E CO., N.Y.
REG. U.S. PAT. OFF.



"ALBANENE" No. 195M K&E CO., N.Y.

Form [illegible] (Rev.)
(April [illegible])

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April & May, 1954 Docket No. DMEA 3073 Contract No. IDM-E 605
Operator's Name GRANDVIEW MINES Minerals Pb-Zn
Address 310 Radio Central Bldg., Spokane 4, Wash.
Contract Amount, $ 36,400.00 Government Participation: 50 % Amount, $ 18,200.

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:	$6146.	6195.00 4802.00	$17,143.			
Drilling				6146.00	10997.00	17143.00
Bulldozing						
Crosscutting						8/3/54 J.W.A.
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):						
TOTALS	$6146.00	$10,997.00		6146.00	10997.00	17143.00

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

Date 6/5/54 *Payee GRANDVIEW MINES

Per [signature] 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:

$ 3073 00

Signature [signature]
(Authorized Certifying Officer)

Date 7/26/54 Vou. No. 1233
(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. 6605 in accordance with the terms of the contract.

Signature /s/ Webster S. Anderson Title Mining Engr Date 6/8/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W. Zoldoff Title Mining Engr Date 6/9/54

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 M[illegible]A
(April [illegible])

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April & May 1954 Docket No. DMEA 3072 Contract No. [illegible]
Operator's Name 210 [illegible] Spokane, Wash. Minerals
Address

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	17.00	ft.	616.00	678'	17,143.00	2449'	7.00	
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		616.00		17,143.00				
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.

6/7/54

Date Operator [illegible]

Per Karl W. 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)

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

Minerals Adm
RECEIVED
30 1954

Narrative Description of Progress in April and May, 1954
under D M E A Docket No. 3073

Drilling was resumed on this recessed project on April 28 and Lotze diamond drill hole #5 was drilled to a depth of 31 feet in April. The hole was continued to a total depth of 546 feet in May. Lotze D.D.#5 was drilled at -90° from about 100 feet north of D.D.#4. From o to 310 feet the hole was in black slate with average dip of bedding between 35° to 40° North. From 310 to 336 feet fine grained gray dolomite was predominant with minor slate bands. A zone of crushed impure dolomite and slate was encountered before entering at 336 feet more coarsely crystalline, massive, blue-gray dolomite which contains the mineralized zone. Between 398 and 404.2 feet a 6.2 foot band of solid pyrite with a few PbS spots was crossed. From 404.2 to 530 feet the hole continued in blue-gray dolomite with occasional pyrite and pyrrhotite spots and seams . A basic dike was cut between 530 and 534.4 feet. From 534.4 to 546 the hole continued in an impure dolomite with serpentine and talc.

Lotze D. D. #6 was drilled at -90° from about 100 feet north of D.D. #1. 332' was drilled during May and the hole was bottomed at 380 feet early in June. From 0 to 215 the hole was in black thin bedded slate dipping about 35° north. From 215 to 288 the bedrock was fine grained gray blue dolomite interlayered with black slate. Between 265 and 288 feet crushed and altered slaty dolomite and gouge were encountered. From 288 to 318.5 feet the hole was in a more pure, coarser grained, blue gray dolomite with disseminated pyrite near 318 feet. A fourteen foot zone of almost solid pyrite with a few spots of PbS was intersected between 318.5 and 332.5 feet. From 332.5 to 365 feet a total of about two to three feet of solid pyrite in scattered bands in blue gray dolomite was crossed. From 365 to 380 feet the drill hole continued in a metamorphosed impure slaty dolomite.

A ssays have not yet been completed but will be included in the report for June.

DIAMOND DRILL RECORD

Standpipe BX drive -12'
Casing AX-40'
4/28/54
Started 5/24/54
Finished Ax. Bx to 298'
Hole Size 546'
Depth 99% in 1s
% Core Rec.

Mine Lotze
Location Current Cr., Stevens Co., Wash.
E A 5/25/54 (Doyles)
Logged by Forster Date
Drilled by

Hole No.
Level
Grid
Latitude 2690'
Departure
Elevation -90°
Bearing
Inclination

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-12	0	Overburden & shattered slate	900	398-404.2	6.2	6.2			
12-310		(Hole drilled BX to 298' when A X coring began. (BX core saved on dump but not in boxes.) Black thin banded hard slate with some gray calcareous bands, calcite seams, and irregular bands and blobs of pyrite & pyrrhotite. Very distinct bedding planes formed by black slate interlayered with knife edge & thick seams of white calcareous material. Slate dips average between 35°-40°. Slate probably dipping ab. 38°N							
310-336	21	Fine grained gray dolomite predominate, with minor slate bands to 336, & thin calcite & talc seams. Crushed zones at 310 to 317 and gauge at 333'. Banding at 15° to 40° to plane across core.							
336-398	58.5	Med. to coarse grained dark gray dolomite with some calcite & some vertical seams with mountain leather Dark brown sing, and pyrite, thinly scattered from 373' on in purer, gray & light gray coarsely xline dolomite.							
398-404.2	6.2	Almost pure pyrite, few inches of gray dolomite, with few specks of lead in pyrite.							
404.2-530	125.8	Blue-gray dolomite with some banding at ab. 25° to plane across core. Occasional seams & blobs of pyrrhotite Some short sections of ab. ½ pyrite & pyrrhotite in dolomite. More talc seams & serpentine, more metamorphosis, as 530 is approached, also some black dolomite slate							
534.4 530-	4.0	Basic dike							
534.4-546	10.8	Dark blue gray dolomite with serpentine & talc. Metamorphosed							

N. B. Hole caved between 328 and 340.

DIAMOND DRILL RECORD

Standpipe
Casing BX drive -8'
BX-218'
Started 5/25/54
Finished 6/1/54
Hole Size BX
Depth 380'
% Core Rec. 85%

Mine Lotze
Location Current Cr., Stevens Co., Wash.
Logged by Ezkil Anderson Date 6/2/54
Drilled by Forsoir & Johnson (Boylan)

Hole No. 6
Level
Grid
Latitude
Departure 2650
Elevation
Bearing - 90°
Inclination

Depth Feet	Feet Core	Lithologic Description	Sample Data: No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-215	BX	Black slate with some pyrite, pyrrhotite, and calcite seams Bedding ab. 45° to plane across core							
215-288	69	Fine grained blue gray dolomite interlayered with black slate, white calcite seams and few spots of pyrite and pyrrhotite in slate. Proportion of dolomite gradually increasing bedding flattening somewhat. From 268-285, crushed abd altered slaty dolomite, gauge, and talcose material probably mark fault							
288-318.5	24	More pure, coarser-grained blue gray dolomite with less distinct banding and disseminate pyrite near 318. Probably considerable pyrite lost near 318.							
318.5-332.5	10.5	Pyrite with ab. 1' of dolomite 3.5' of core lost presumably pyrite, Banding generally at less than 45° across core							
332.5-365	23.5	Same as 288-318.5 except containing 2-3 feet of solid pyrite in scattered bands. Considerable core lost, presumably largely pyrite, as recovery elsewhere is good							
365-380	14.7	Impure slaty dolomite, metamorphosed with highly irregular and distorted banding of slate & dolomite N. B. Hole caved and filled with black mud between 260' and 284'.							

BOYLES BROS. DRILLING COMPANY
Salt Lake City 4, Utah

I hereby certify that during the months of April and May, 1954, Boyles Bros. Drilling Company, under my supervision, completed 878 feet of diamond drilling on the Dosser-Maki-Lotze Property, Stevens County, Washington, on behalf of Grandview Mines with footages distributed as follows:

Lotze #5	546 feet
Lotze #6	332
	878 feet

June 5, 1954

Tex Bouquet
Tex Bouquet, Superintendent
Boyles Bros. Drilling Co.
Colville, Washington

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

June 23, 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-3073 (lead-zinc), Routine Inspection, Grandview Mines (Donser-Maki-Lotze), Stevens County, Washington, Contract No. Idm-2605.

The Donser-Maki-Lotze property was visited Thursday, June 17, 1954. Mr. Eskil Pederson, geologist for Grandview Mines, was at the property. Since the last inspection, on May 26, 1954, Lotze DDH Nos. 6 and 7 have been completed. The pyrite zone was intersected by DDH No. 6. DDH No. 7 was drilled vertically for 400 feet about 170 feet west of DDH No. 6. Only very thin, widely spaced bands of pyrite were found in this hole.

As drilling results to date indicate that the pyrite zone is plunging more to the east, further drilling to the east of DDH No. 5 is planned. Lotze DDH No. 8 was being started about 270 feet east of DDH No. 5 and is being drilled at a vertical angle of -70 degrees. On the date of the inspection, the hole had not penetrated deeply enough to intersect the projected location of the pyrite zone.

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 2, 1954

Memorandum

To: DMEA Field Team, Region II

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

Subject: Docket No. DMFA 3073 (lead-zinc) Routine inspection, Grandview Mines, Dosser-Maki-Lotze property, Stevens County, Washington, Contract No. Idm-E605

On Friday, May 28, 1954, W. S. Anderson, Bureau of Mines, and Willard P. Puffett, Geological Survey, made a routine inspection of the Grandview drilling project at the Dosser-Maki-Lotze property. Mr. Eskil Anderson, geologist for Grandview Mines, accompanied us on the inspection.

Diamond drilling was resumed during the second week in May. This is the drilling provided for in Stage II of the contract. Lotze DDH No. 5, drilled vertically, had been completed to a depth of 548 feet. Lotze DDH No. 6, drilled vertically, had reached a depth of 220 feet. The core from both holes was inspected and logged. Location of these two holes and holes drilled under Stage I of the contract are shown on the attached plan map.

In DDH No. 5, five feet of heavy pyrite was intersected. Just above this pyrite for 35 feet there are scattered very thin seams of dark-colored sphalerite. Below the pyrite is scattered pyrrhotite. No lead was seen in the core.

DDH No. 6 had just intersected the slate-limestone contact. According to the attached vertical section showing this hole and DDH No. 1, the deeper extension of the pyrite zone should be intersected at about 260 feet.

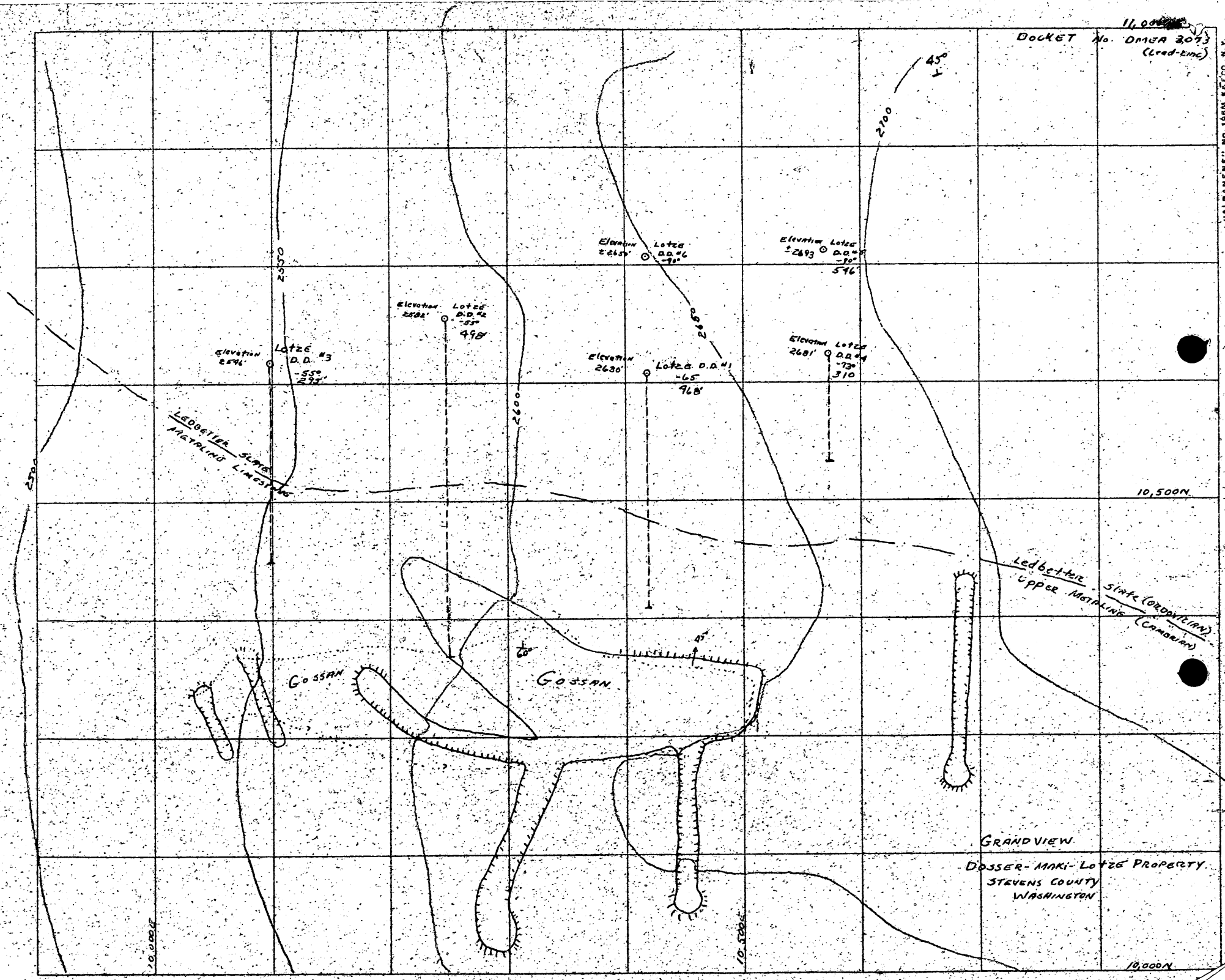
The presence of sphalerite in DDH No. 5 is interesting in that practically no sphalerite has been recovered in the core of the holes drilled under Stage I. In these holes the heavy pyrite zone was intersected and a few shines of lead were recovered in the core. It may be that more drilling to intersect the deeper extensions of the pyrite zone will be successful in intersecting higher grade zinc-bearing rock. This possibility was discussed with Mr. Anderson.

Drilling is being done by Boyles Brothers of Salt Lake City, Utah. All core is AX size.

As drilling is proceeding on a two-shift basis, DDH No. 6 will soon be completed. Upon the completion of this hole, an analysis of the results obtained to date will be made to determine if further drilling is warranted.

Enclosures (2)

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


DOCKET No. OMGA 3073
(Lead-zinc)
45°
2700
2650
2600
2550
2500
Elevation ±2693
Lotze D.D. #7
-90°
596'
Elevation ±2657'
Lotze D.D. #6
-90°
Elevation 2582'
Lotze D.D. #2
-55°
498'
Elevation 2596'
Lotze D.D. #3
-55°
295'
Elevation 2630'
Lotze D.D. #1
-65
968'
Elevation 2681'
Lotze D.D. #4
-73°
310
Ledbetter Slate
Metaline Limestone
10,500N
Ledbetter Slate (Ordovician)
Upper Metaline (Cambrian)
60°
45°
GOSSAN
GOSSAN
GRANDVIEW
DOSSER-MAKI-LOTZE PROPERTY
STEVENS COUNTY
WASHINGTON
10,000E
10,500E
10,000N

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

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

1/4/54 - Received by Rice

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

Month of [illegible], 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $[illegible] Government Participation: [illegible]% Amount, $[illegible]

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	[illegible]	[illegible]	[illegible]			
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):						
TOTALS	[illegible]	[illegible]	[illegible]	4802.00	6195.00	10997.00

Approved Totals To Date: ~~Also~~ Betty 1/5/54 J.W.A.

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

Date [illegible] *Payee [illegible]

Per Karl W. Jasper Title [illegible]

*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:
2401.00 approved total
250.00 amt withheld
2151.00 amt paid 12/17/53

Signature [illegible] (Authorized Certifying Officer)

Date 12/17/53 Vou. No. 1005 (See other side)

Partial payment $250.00 withheld as project is released for winter.

(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. E605 in accordance with the terms of the contract.

Signature (S) Webster S Anderson Title Mining Eng Date 12/16/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen W Zoldok Title Mining Eng Date 12/16/53

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-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1953 Docket No. DMEA 3073 Contract No. [illegible]-605

Operator's Name [illegible] Minerals [illegible]

Address 310 Radio Central Building, [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								
Crosscutting								
Raising								
Shafts								
Winzes	$7.00 ft	666'	$4802.00	666'	$10,997.00	1571'	$10,997.00	
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$4802.00		$10,997.00				

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 12/14/53 Operator [illegible]

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)

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 Description of Progress in November, 1953
under DMEA Docket No. 3073.

Assays from the sampling of Lotze diamond drill hole #1 were received in November. The strong pyrite zone intersected by the drill hole between 179.5 and 195 gave assay results for 15.5 feet of o.1 oz. Ag, 04% Pb, o.2% Zn, and 35.7% Fe.

Assays from thepyrite bearing zone in Lotze #2 showed 4.3% Fe for 16.5 feet and 3.1% Fe for 7.0 feet. The hole was stopped at 498 feet.

Lotze diamond drill hole #3 was drilled to a depth of 295 feet and did not encounter any significant mineralization. The first 71 feet was in black slate, the remainder in gray thin banded dolomite with occasional slate bands. Pyrite and pyrrhotite occurred sparingly with the strongest pyritized zone between 259.2 and 261.5 containing only a few per cent of pyrite. No Pb or Zn mineralization was observed.

Lotze diamond drill hole #4 was stopped at a depth of 310 feet after passing through 30 feet of pyrite (between 263 and 293 feet) with PbS in spots and along seams, and a few ZnS shines. The 30 feet of core contained: Ag-Trs Pb-0.33 [redacted], 32.5% Fe, Au-Tr. Slate in D.D.#4 continued to a depth of 152 feet gradually becoming more calcareous until after 236 feet when slate was absent and dolomite formed the bedrock.

In all the holes drilled on the Lotze property the slate - dolomite contact has been gradational, without a definite and sudden change from slate to limestone.

The strong pyrite occurrences in holes #1 and #4 indicate an easterly rake for the gossan zone, projected in depth, and a dip of less than 45°.

The pyrite zone in hole #4 was also nearly twice as thick as that in Hole #1.

Two diamond drill holes drilled South at about 50° from a deep gully between 250 and 300 feet north of holes #1 and #4, should intersect the projected mineralized zone in less than 450 feet. Before abandonment of the project as a possible lead and zinc producer these holes should be drilled in order to determine whether or not holes #1 and #4 intersected the mineralized zone at points where the lead content was lower than average.

DIAMOND DRILL RECORD

Standpipe
Casing 17' NX, 2'BX, 362' EX
Started 10/6/53
Finished 11/3/53
Hole Size AX
Depth 468
% Core Rec. 81

Mine Lotz
Location Current Cr., Stevens Co., Wash.
Logged by Eskil Anderson Date 10/24/53
Drilled by Forcsir & Johnson (Boyles)

Hole No. 1
Level
Grid
Latitude
Departure
Elevation 2630
Bearing S. 0 S
Inclination -65

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-19	0	Overburden & shattered slate	709	179.5-185	5.5	5.50	37-6) 0.1(Fe	0.4	0.2
			710	185-195	8.6	10.0	0.1 (Fe-34.6)	0.4	0.2
19-109	85	Black slate with bands of pyrite up to 1" thick, and white calcite stringers. Slate gradually becomes limy.							
109-179.5	68.3	Dark gray fine-grained dolomite with few slate bands. Gouge and crushed material from 143 to 150							
179.5-195	15.5	Yellow pyrite with a few spots and seams of PbS & ZnS.							
195-317	101.1	Light and dark gray banded dolomite with some pyrite disseminated and on seams.							
317-332.5	12.0	Much broken material, talcose, slatey & calcareous with some black gouge							
332.5-36.2	12.0	Gray dolomite with pyrite as in 195-317							
362-468	72.0	EX core to and of hole. Drillers unable to go further without reaming hole to BX from beginning. Gray dolomite with scattered pyrite & pyrrhotite & few ZnS & PbS shines. Slatey dolomite with white calcite veinlets between 390 & 420. Broken black talcose & graphitic gouge material from 442 to 447. Some white tremolite xls present.							

DIAMOND DRILL RECORD

Standpipe
Casing 4 3/8 x
Started 10/1/53
Finished 11/7/53
Hole Size AX
Depth 498'
% Core Rec. 85

Mine Lotze
Location Current Cr., Stevens Co., Wash.
Logged by Eskil Anderson Date 10/25/53
Drilled by Purcell & Link (Boyles)

Hole No. 2
Level
Grid
Latitude
Departure
Elevation 2582
Bearing S
Inclination -55°

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-49	0	Drilled in shattered black slate which did not core	668	192.5-209	7.0	16.5	Tr(4.3)	0.0	0.0
			669	254-261	6.0	7.0	Tr(3.1)	0.0	0.0
49-143	76.2	Black slate, thin-bedded with calcite & pyrite spots and seams Slate gradually becomes more calcareous. Black gouge from 143 to 143							
143-346	176.3	Gray dolomite with spots and seams of calcite, serpentine & pyrite and talcose material. Gouge from 168 to 170. Moderately strong pyritized zone, few ZnS & PbS shines, from 192-209; 250-261; 263-280. Core badly crushed and broken. Dark gray slaty dolomite with crushed zones, white calcite, and fibrous talc, few pyrite specks, from 298 to 346.							
346-498	132.5	Finely xline dark blue gray dolomite with pyrrhotite & pyrite seams; white calcite seams; & some graphitic or black & white talcy partings. Few light brown mica flakes at 362'. Some fibrous talcose bands present. Few dark brown ZnS shines and PbS spots from 420 to 430.							
		Sludges	1034(4#)	411-4191	4.0	8.0		0.0	0.5

DIAMOND DRILL RECORD

Standpipe
Casing 24' BX 68' AX

Started 11/9/53
Finished 11/21/53
Hole Size AX
Depth 295
% Core Rec. 88

Mine Lotus
Location Current Cr., Deep Lake, Wash.

Logged by Eskil Anderson Date 12/1/53
Drilled by Link & Purcell (Davies)

Hole No. 3
Level
Grid
Latitude
Departure 2546.1
Elevation 5
Bearing -55°
Inclination

Depth Feet	Feet Core	Lithologic Description	Sample Data No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-24	0	Overburden & shattered slate							
24-71	40.5	Black slate with pyrite & calcite spots & seams. Bedding at right angles to axis of core.							
71-274.5	183.5	Gray thin banded dolomite with occasional slaty sections, calcite & serpentine seams & few specks of pyrrhotite. Banding generally within 10° of right angles to core axis. Few flakes of bronze colored talcy micaceous material. Strong pyritization from 259.2 to 261.5							
274.5 284.5	8.5	Basic dike.							
284.5-295	8.0	Dark gray dolomite, as above with badly broken black, slaty & calcareous material on both sides of the dike.							
	88	No Pb or Zn mineralization observed.							

DIAMOND DRILL RECORD

Standpipe
Casing BX-7. BX-5
23' AX
Started 11/5/53
Finished 11/21/53
Hole Size AX
Depth 343
% Core Rec. 81

Mine Lots Current Creek, Deepl Lake,
Location Stevens Co., Washington
Eskil Anderson 12/1/53
Logged by C. R. Johnson (Doyles)
Drilled by

Hole No.
Level
Grid
Latitude
Departure 2680.6
Elevation South
Bearing -73°
Inclination

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-12		Overburden & crushed slate.	694	263-283	14.2	20.0	Tr(Fe-33.6)	0.3	0.0
12-152	126	Black slate with pyrite, pyrrhotite & calcite seams, gradually becoming more & more calcareous	695	283-293	8.9	10.0	Tr(Fe-30.2%)	0.4	0.0
152-236	62.0	Gray thin banded dolomite with calcite seams & pyrite & pyrrhotite spots, occasional slaty bands. Banding at about 15° to plane across core.							
236-263	22.4	Gray dolomite with small spots, spots & seams of calcite, serpentine, & pyrite. Dolomite almost without banding. Pyritization gradually increasing from 258.							
263-293	23.6	Pyrite with a little residual dolomite & specks & seams of PbS Blue mineral on seams at 267ft about ½" glob of PbS. More PbS from 283-288, & blue oxidation products on seams.	795	283-290(4.3ft)	5.5	7.0	0.2 (Fe-29.4)	0.3	(Au-Tr) Tr
			796	290-298(4.7ft)	7.5	8.0	0.1(Fe-18.0)	Tr	0.0
293-310	9.5	Gray dolomite with some pyrite.	Sluiceas						
			784	263-265.5(2ft)	1.7	2.5	Tr(Fe-6.7)	0.0	0.0
			798	265.5 269(3.7ft)	2.5	4.5	0.2(Fe 35.2)	0.5	(Au-Tr) 0.2
			797	269-271 (3.2ft)	1.0	2.0	0.2 (Fe-30%)	0.3	(Au-Tr) 0.2
			780	271-276(6.4ft)	3.0	5.0	0.2(Fe-19.0)	Tr	(Au-Tr) 0.0
			779	276-282(8.1ft)	4.3	6.0	0.2(Fe 31.8%)	0.2	(Au-Tr) 0.

BOYLES BROS. DRILLING COMPANY
Salt Lake City 4, Utah

I hereby certify that during the month of November, 1953 Boyle's Bros. Drilling Company, under my supervision, completed 686 feet of diamond drilling on the Noeser-Waki-Lotze Property, Stevens County, Washington on behalf of Grandview Mines, Spokane, Washington with footages distributed as follows:

Lotze #1	11	feet
Lotze #2	70	
Lotze #3	295	
Lotze #4	310	
	686	feet

December 10, 1953

Tom Howard

Tom Howard, Foreman
Boyles Bros. Drilling Co.
Colville, Washington

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

1201 N. Division St.
Spokane 2, Washington
November 24, 1953

12/17/53 Received [illegible]
~~Ab~~
Betty

MEMORANDUM

To: DMEA Field Team, Region II

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

Subject: Routine inspection, Grandview Mines, Dosser-Maki-Lotze Prospect, Stevens County, Washington, Contract Idm-E605, Docket No. DMEA 3073 (lead-zinc)

The subject property was visited November 19, 1953. Mr. Eskil Anderson, geologist for Grandview Mines, was at the property during the visit.

Boyles Brothers Drilling Company had two diamond drill rigs at the property with one being operated on two shifts and the other on one shift. The wage rates for drilling are $2.000/hr. for drillers and $1.75/hr for helpers. The drillers are under a bonus system in which every foot drilled over 24 feet per day averaged over a six-day period they receive 1/4 hour pay bonus.

Holes drilled under the exploration project contract are as follows:

DDH #	Hole size	Angle	Depth	Bearing
Lotze #1	AX	-65°	468	South
" #2	AX	-55°	498	South
" #3	AX	-55°	235 Not bottomed	South
" #4	AX	-73°	271 Not bottomed	South

Logs and assays of core will be submitted with the next report and a sketch will be attached showing location of holes.

As soon as DDH Lotze #3 and #4 are bottomed, Stage I of the contract will be completed. Strong pyrite mineralization in the cores indicates that the gossan zone is more shallow than originally believed.

As only a few scattered specks of zinc and lead were observed in the core the results are not considered promising enough to justify initiation of Stage II of the contract.

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

W. S. Anderson

Form MF-1-4 (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

DEPARTMENT OF THE INTERIOR
Minerals Administration
Received
NOV 23 1953

Month of September & October 1953 Docket No. DMEA 3073 Contract No.
Operator's Name GRANDVIEW MINES Minerals Pb- Zn -
Address 310 Radio Central Building, Spokane 4, Washington
Contract Amount, $ 36,400.00 Government Participation: 50 % Amount, $ 18,200.00

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) [redacted] Short Form Contracts:						
Drilling	$6195.00	0	$6195.00			Betty 11/27/53 J.W.L.
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):						
TOTALS	$6195.00	none	$6195.00	6195.00		6195.00

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

Date 11/12/53 *Payee Grandview Mines

Per Karl W. Jaspler 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:

$ 3097.50

Signature [illegible]
(Authorized Certifying Officer)

Date 11/18/53 Vou. No. 771
(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-605 in accordance with the terms of the contract.

Signature /S/ Webster S Anderson Title Mining Eng Date 11-12-53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Eng Date 11-12-53

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 ME-104A
(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
NOV 23 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September & October 195 3 Docket No. DMEA 3073 Contract No.

Operator's Name ~~GRANDVIEW MINES~~ Minerals Pb-Zn

Address ~~310 Radio Central Building, Spokane 4, 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 $7 per ft	885'	$6195.00	885'	$6195.00	885'	$6195.00		
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$6195.00		$6195.00				

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 11/12/53 Operator ~~Grandview Mines~~

Per Karl W. Jaspler 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)

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 Description of Progress in October, 1953
under DMEA Docket No. 3073

Lotze diamond drill hole #1 was drilled to a depth of 468 feet, 457 feet before October 1, at -65° to the south. From 0 to 109 the hole was in black slate with bands of pyrite up to 1" in thickness. Bedding or cleavage of the slate was often nearly at right angles to the direction of the hole. After 109 feet dark, fine-grained dolomite was predominant with occasional slate bands. From 179 to 195 feet the core was almost solid pyrite with a few small spots of PbS and ZnS. From 195 on the core consisted largely of light and dark gray banded dolomite with some pyrite and pyrrhotite disseminated and on seams. A very few ZnS and PbS shines occur for some feet after 362 feet. Core assays have not yet been received. Much broken and crushed material and gouge occurred, especially at 317 to 322 feet, and bad caving of the hole took place after that. The drillers found it necessary to finish the last 106 feet of the hole with EX core rather than to ease the hole further.

Lotze diamond drill hole #2 had been drilled to 428 feet, by the end of October, at south -55°. The first 143 feet was in black slate similar to that in hole #1. Dark gray dolomite predominated from 143 to 428 feet. Zones of crushed material and black gouge with some talcose and soft white and fibrous material occurred from 163 to 170 and 288 to 346. Moderately strong pyritized zones occurred from 192 to 209 feet and similar zones containing several percent of pyrite occurred from 250 to 261 and from 263 to 280. The core was badly crushed in these zones. Only a few shines of ZnS and PbS were present. The core was too badly broken for satisfactory splitting. Pyrrhotite and pyrite were fairly common after 350 feet and between 420 and 428 a few dark brown ZnS shines and small spots of PbS occurred.

From the strong pyrite occurrences in both drill holes it seems that the gossan zone projected in depth is considerably more shallow than it would be at the supposed 60° dip.

Both holes caved badly, especially between 300 and 350 feet. Caving was probably caused by slippery talcose and graphitic par tings as well as by the crushed gouge zones. Hole #2 was cased almost its entire length and as the hole had swelled closed in a very short time, drillers considered it doubtful that the casing could be pulled.

DIAMOND DRILL RECORD

Standpipe
Casing 17' EX. 2' BX. 362' EX
Started 10/6/53
Finished 11/3/53
Hole Size AX
Depth 468
% Core Rec. 81

Mine Lotze
Location Currant Cr., Stevens Co., Wash.
Logged by Lekil Anderson Date 10/24/53
Drilled by Forcier & Johnson (Boyles)

Hole No. S 1
Level
Grid
Latitude
Departure
Elevation 2630.
Bearing S
Inclination -65

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-19	0	Overburden & shattered slate							
19-109	95	Black slate with bands of pyrite up to 1" thick, and white calcite stringers. Slate gradually becomes limy.	709	179.5-185	5.5	5.5			
			710	185-195	9.6	10.0			
109-179.5	63.3	Dark gray fine-grained dolomite with few slate bands. Gouge and crushed material from 143 to 150							
179.5-195	15.5	Yellow pyrite with a few spots and seams of PbS & ZnS.							
195-317	101.1	Light and dark gray banded dolomite with some pyrite disseminated and on seams.							
317-332.5	12.0	Much broken material, talcose, slatey, & calcareous with some black gouge							
332.5-362	12.0	Gray dolomite with pyrite as in 195-317							
362-468	72.0	EX core to end of hole. Drillers unable to go further without reaming hole to BX from beginning. Gray dolomite with scattered pyrite & pyrrhotite & few ZnS & PbS shines. Slatey dolomite with white calcite veinlets between 390 & 420. Broken black talcose & graphitic gouge material from 442 to 447. Some white tremolite xls present.							

DIAMOND DRILL RECORD

Standpipe
Casing

Started 10/1/53
Finished 11/7/53
Hole Size [illegible]
Depth 499
% Core Rec. 35

Mine
Location Lotze Current Cr., Stevens Co., Wash.
Logged by Neil Anderson Date 11/7/53
Drilled by Purcell & Link (Boyles)

Hole No. 8
Level
Grid
Latitude
Departure
Elevation 2582
Bearing
Inclination 9 -53

Depth Feet	Feet Core	Lithologic Description	Sample No.	Interval	Core Feet	Sple. Feet	Oz. Ag	% Pb	% Zn
0-29	0	Drilled in shattered black slate which did not core							
29-143	76.0	Black slate, thin-bedded with calcite & pyrite spots and seams. Slate gradually becomes more siliceous. Black gouge from 142 to 143							
143-346	176.0	Gray dolomite with spots and seams of calcite, serpentine, & pyrite and talcose material. Gouge from 132 to 170. Moderately strong pyritized zone, few and small shines, from 192-200; 250-261; 282-290. Core badly crushed and broken. Dark gray slaty dolomite with crushed zones, white calcite, and fibrous talc, few pyrite specks, from 290 to 346.	358	192.5-203	7.0	10.0			
			660	254-261	8.0	7.0			
346-499	132.0	Finely saline dark blue gray dolomite with pyrrhotite & pyrite seams; white calcite seams; some graphitic or black & white talcy partings. Few light brown mica flakes at 368'. Some fibrous talcose zones present. Few light brown zinc shines and [illegible] spots from 430 to 420.							

BOYLES BROS. DRILLING COMPANY
Salt Lake City 4, Utah

I hereby certify that during the month of October, 1953 Boyle's Bros. Drilling Company, under my supervision, completed 885 feet of diamond drilling on the Dosser-Maki-Lotze Property, Stevens County, Washington on behalf of Grandview Mines, Spokane, Washington with footages distributed as follows:

Lotze #1	457 feet
Lotze #2	428 "
	885 "

November 7, 1953

Tom Howard, Foreman
Boyles Bros. Drilling Co.
Colville, Washington

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
No. 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

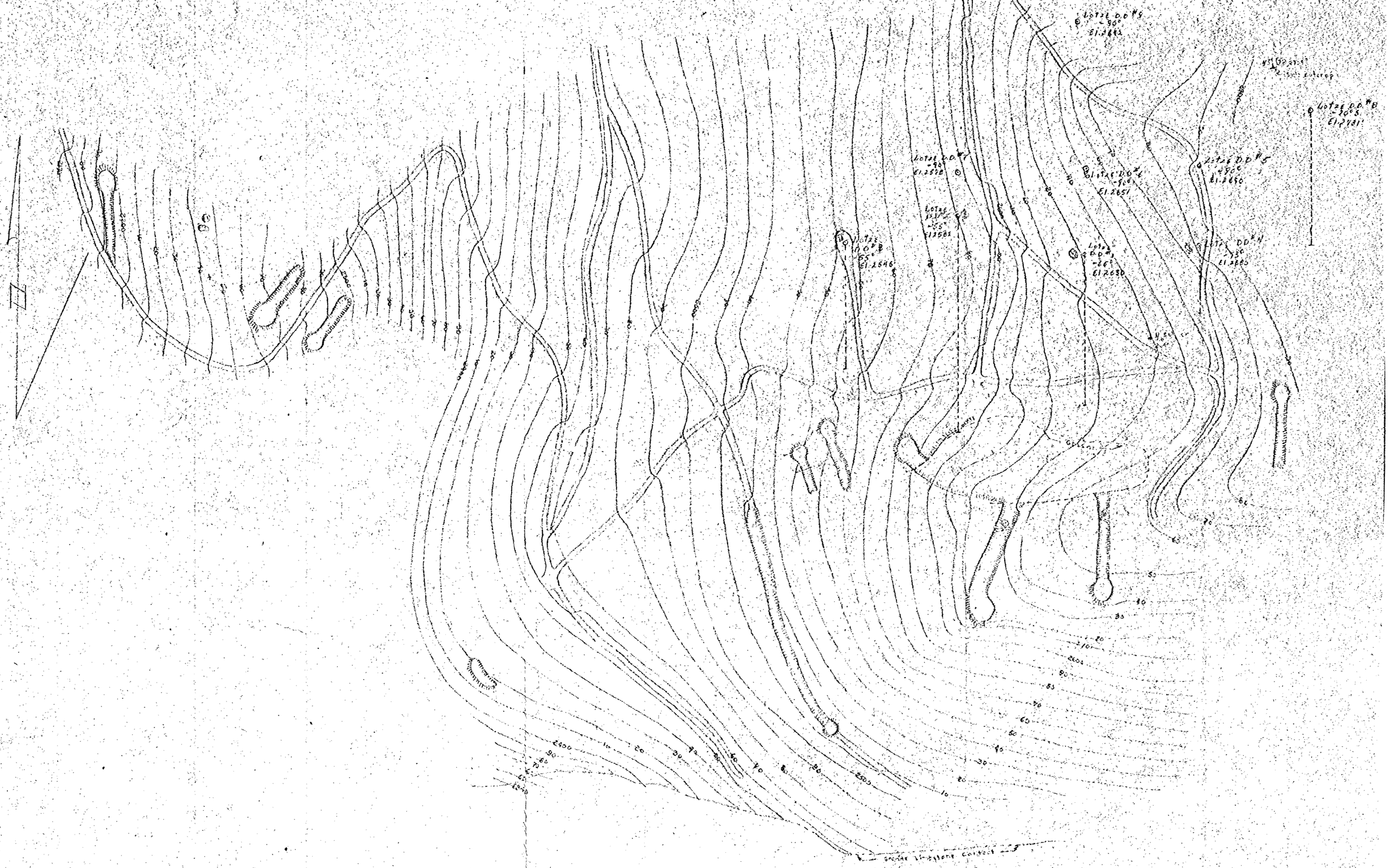
Subject: Docket No. DMEA 3073 (lead-zinc) routine inspection of
Grandview Mines, Dosser-Maki-Lotze prospect, Contract Idm-1603

A routine inspection of the drilling program at the Dosser-Maki-Lotze property was made on Wednesday, October 14, 1953, by W. Puffett and Robert Yates, U. S. Geological Survey, and W. S. Anderson, U. S. Bureau of Mines. No official representative of the Grandview Mines was at the property.

Boyles Brothers Drilling Company of Salt Lake City, Utah had two drill rigs in operation at the property. Diamond Drill hole, Lotze No. 1, being drilled south at a minus 65 degree angle, had penetrated to 145 feet. Nineteen feet of casing was necessary on this hole. Slate with intercalated bands of limy material had been recovered in the core. No ore minerals were seen in the core.

Drill hole Lotze No. 2B, located 200 feet west of Lotze No. 1, was being drilled south at minus 55 degrees. This hole had penetrated 265 feet as of the date of the inspection. Slate was penetrated to 145 feet, after which gray limestone was recovered in the core. It had been necessary to case this hole to a depth of 182 feet. No ore minerals were seen in the core, although sparsely disseminated pyrite occurs in the limestone.

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

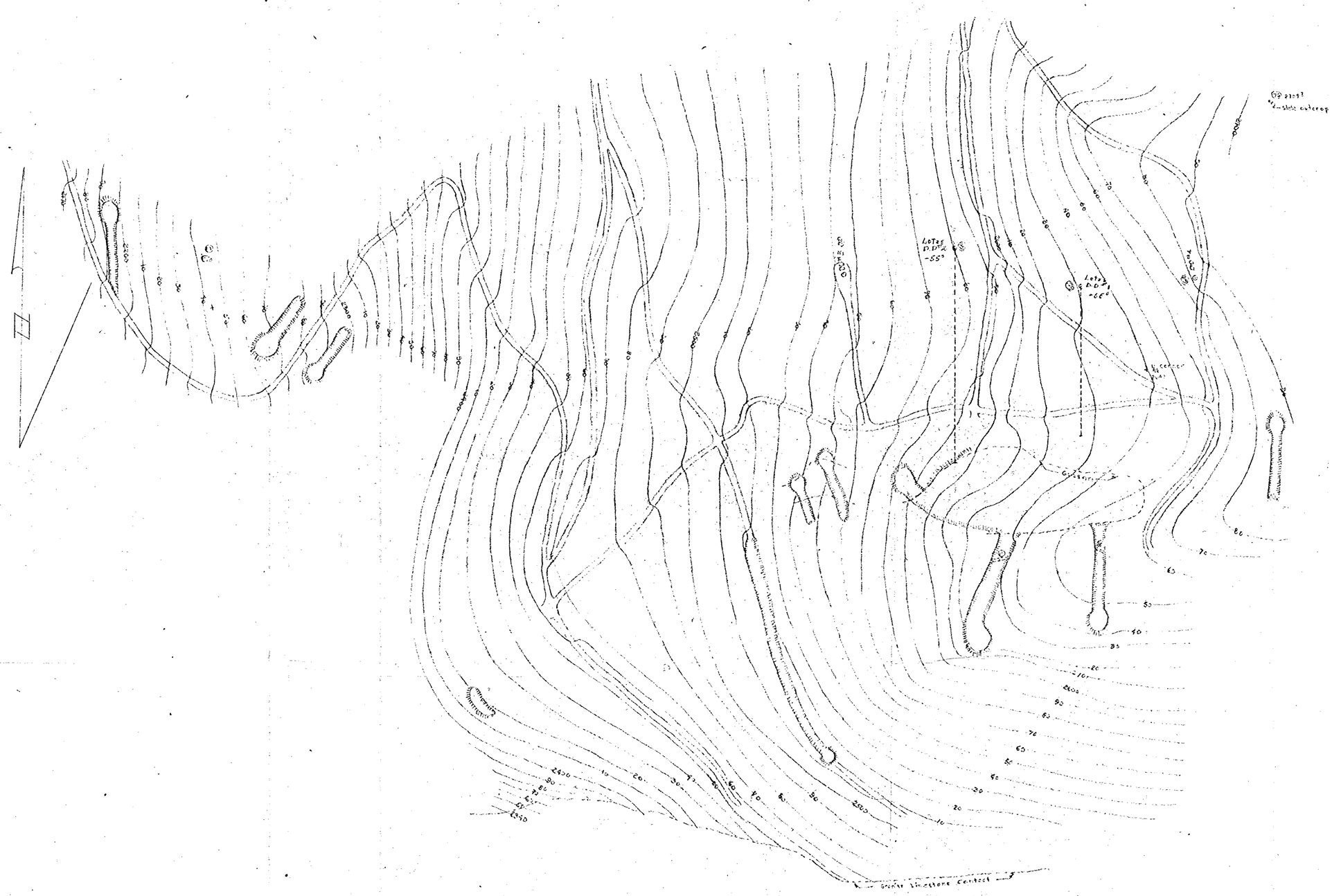


DOSSER PROSPECT

Scale: 1" = 100'

Contour Interval = 10'

Dated: Oct. 1953

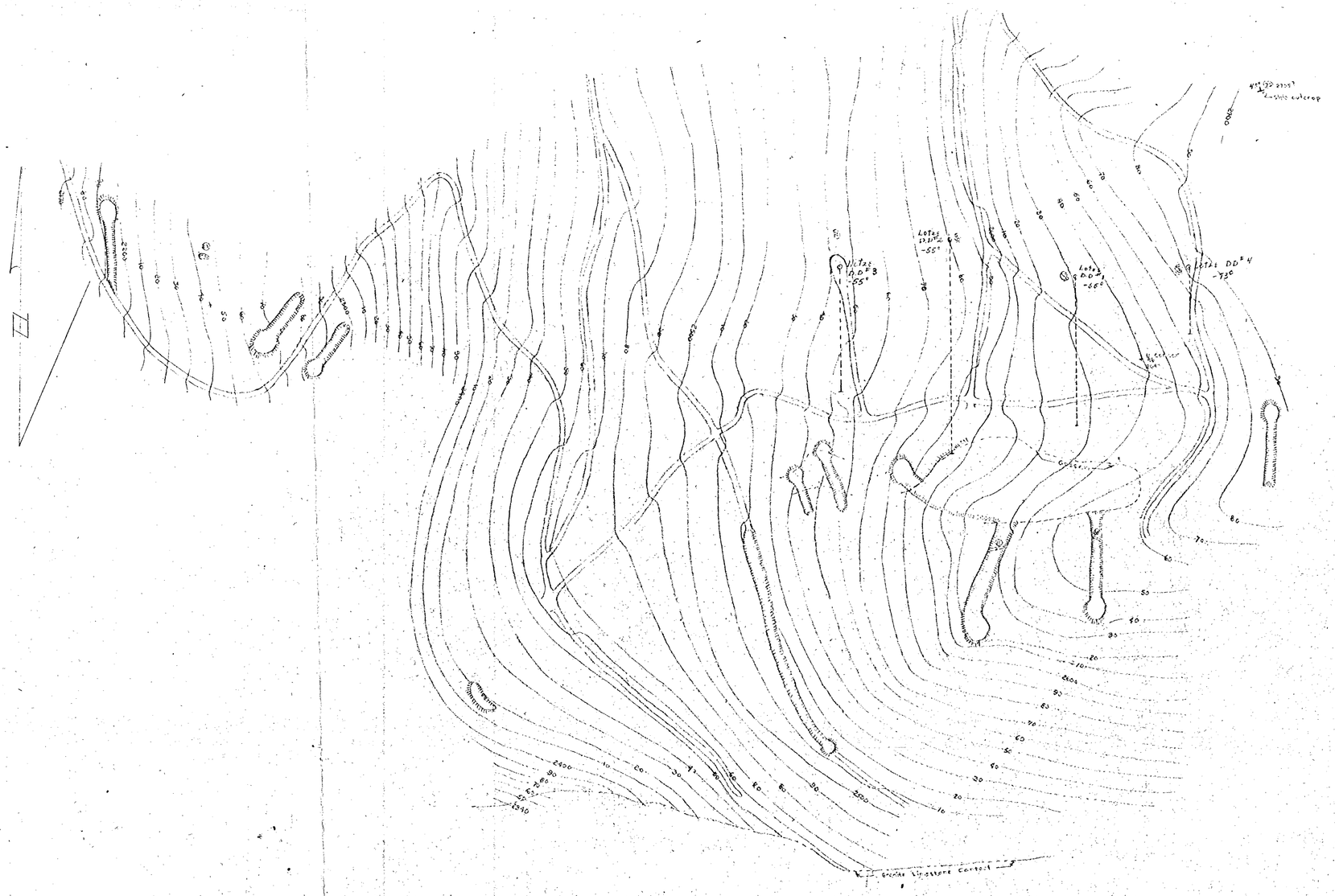


DOSSER PROSPECT

Scale: 1" = 100'

Contour Interval = 10'

Dated: Oct. 1953

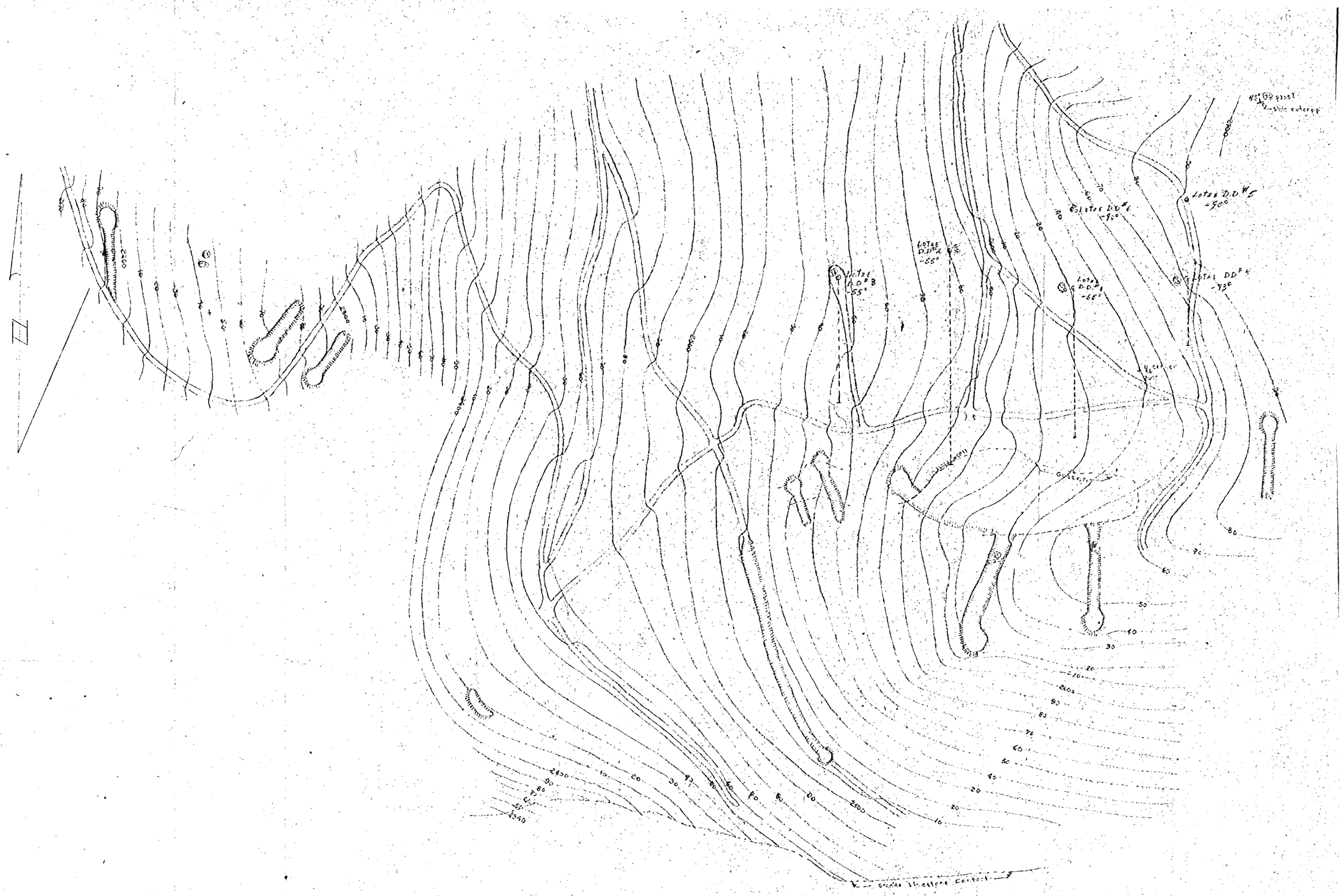


DOSSER PROSPECT

Scale: 1" = 100'

Contour Interval = 10'

Dated: Oct. 1953



DOSSER PROSPECT

Scale: 1" = 100'

Contour Interval = 10'

Dated: Oct. 1953

Plane Table Map of Dosser-Meki-Lotze Properties,
East of Deep Lake, Stevens Co., Wash.
Bulldozing and diamond drilling done by
Grandview Mines from
1951 to 1954
Scale 1" = 100'
N
Dosser Property
Lotze Property
Meki Property
Lotze D.D. #9 -90° El. 2642
Black slate
Lotze D.D. #8 -70° S El. 2781
Lotze D.D. #7 -90° El. 2578
Lotze D.D. #6 -90° El. 2651
Lotze D.D. #5 -90° El. 2690
Lotze D.D. #2 -55° El. 2552
Lotze D.D. #3 -55° El. 2546
Lotze D.D. #1 -85° El. 2630
Lotze D.D. #4 -73° El. 2681
Dosser D.D. #6 -90°
Dosser D.D. #5
Dosser D.D. #4 -45°
Dosser D.D. #2 -67°
Ledbetter slate
Upper Metaline (dolomite)
Ledbetter slate (Ordovician)
Upper Metaline ls. (Cambrian)
Gossan
Road
Abundant dolomite float and occasional outcrops
Thin bedded dolomite
Abundant dolomite float, occasional outcrops
Dolomite
Granite
Coarse-grained biotite granite
Coarse-grained biotite granite
Slate-limestone contact
Granite-limestone contact
Inclined shafts
Meki D.D. #2 -70° El. 2695
Meki D.D. #3 -90° El. 2520
Current Cr.
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
2700
2710
2720
2730
2750
2770
2780
2790