REQUEST FOR INFORMATION
FROM OPERATOR ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

From: Field Officer, OME, Region I

Concerning:
Docket No. DMEA-3548 (Lead-Zinc)
Property Boss & Atlantus Claims
Location Cascade County, Montana
E743

Date: January 29, 1962

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 6 1962

DATE	INITIALS	
2-6		100
2/6		110
2/6		800
2/8		500
	220	

Mr. C. L. Hewitt, President
Boss Mines, Inc.
P.O. Box 904
Helena, Montana

With the certification of the exploration ~~project~~ identified above, you were asked to inform our office about changes in the status of the property and production from it.

To assist you to furnish this information and to assure the accuracy of our records, we ask that you answer the questions below and return ~~one copy~~ two copies to this office with copies of any pertinent documents.

Donald R. MacLaren
Donald R. MacLaren
Acting Field Officer, OME, Region I

1. Since Dec. 31, 1958, has there been a change in ownership, lease, or sublease about which the OME has not been notified? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents. Yes ☐ No ☒

2. Since Dec. 31, 1958, has there been any production from the property?* Yes ☐ No ☒

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

Submitted by:

Name C L Hewitt Title Pres.

Address P.O. Box 904 Helena Mont Date 2/1/62

MME Form 63 8-60 * Property means land subject to the contract. 79340-60

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O. M. E.
RECEIVED FEB 2 1959

DATE	INITIALS	CODE
2-2	C	220
"	[illegible]	110
"	[illegible]	800
2-4	[illegible]	500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: July 1 to December 31, 1958

Date of report: January 2, 1959

Operator: Boss Mines, Inc., 545 N. Rodney Street, Helena, Montana

Mine name: Boss and Atlantus Claims

County and State: Cascade County, Montana

Docket number and commodity: DMEA-3548 (lead-zinc)

Contract number: Idm-E743

Date of contract: December 7, 1954

Date of certification: September 12, 1956

Expiration date of royalty payments: December 7, 1967

Total amount of contract: $57,208.50

Total expenditures under contract: 39,399.50

Amount of Government participation @ 50%: 19,699.75

Royalty payments this period: none

Previous royalty payments: $ 1,680.90

Total royalty payments to date: 1,680.90

Percent of Government participation repaid: 8.53%

Royalty due on production to date: None

Royalty remarks: Royalty audit by C. A. Turner dated July 9, 1958.

Semi-annual royalty report
Contract No. Idm-E743
Page 2

	Tons	Analysis
Original estimate of DMEA reserves (from Field Team final report) Mines ___ Survey ___ Joint ___	Report not yet prepared.	
Revised estimate of DMEA reserves (Field Team) Mines ___ Survey ___ Joint ___		
Increase of reserves by work performed subsequent to DMEA project work:		
Production of DMEA ore (this period):	none	
(previous):	1,453.0165 tons	
(to date):	1,453.0165 tons	
Production of Operator's ore found subsequent to DMEA work (this period):	none	
(previous):	none	
(to date):	none	

Percent of revised reserves mined:

Production remarks: The mine was shut down in the fall of 1957 and it is unlikely that it will resume operations unless there is an improvement in the metal market.

Investment Data: none

Signed: S. W. Zoldok (Engineer)

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

Standard Form No. 1034—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. .....

Bu. Vou. No. 2218

alt.

RECEIVED SEP 18 1958 D.M.E.A.

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

Voucher prepared at Spokane, Washington 9/11/58
(Give place and date)

THE UNITED STATES, Dr.

Payee's Account No. Idm-E745

To Bose Lines, Inc.
(Payee)

545 N. Rodney Helena Montana
(Address) (City) (State)

PAID BY

(For use of Paying Office)

No. and Date of Order	Date of Delivery or Service	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary) Discount Terms	QUANTITY	UNIT PRICE Cost	UNIT PRICE Per	AMOUNT Dollars	AMOUNT Cts.
	Sept. 1957	Balance withheld under Voucher No. 2066, dated November 1, 1957, adjusted to audit.				187	25
PAYMENT: Complete ☐ Partial ☐ Final ☐		FINAL PAYMENT					
		Use continuation sheet(s) if necessary					
Shipped from	to	Weight	Government B/L No.		Total	187	25

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

(Sign original only)

Date ..... *Payee .....
(This certificate not required when a like certificate is made by payee on attached bill or bills)

Per ..... Title .....

(Payee must NOT use this space)

Differences .....

Account verified; correct for 187 25

(Signature or initials) .....

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

Pursuant to authority vested in me, I certify that this account is correct and proper for payment.

† Approved for $ .....

By .....

Title .....

SIGN ORIGINAL ONLY

† .....
(Authorized Certifying Officer)

Title .....

Date .....

THE REVERSE OF THIS FORM MUST BE EXECUTED WHEN PURCHASES ARE MADE OR SERVICES SECURED WITHOUT WRITTEN AGREEMENT IN ANY FORM

ACCOUNTING CLASSIFICATION (For completion by Administrative Office)

Appropriation, limitation, or project symbol	Appropriation title	Limit'n. or Proj't. Amount	Appropriation Amount

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

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

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary", or "Treasurer", as the case may be.
† If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign on the line below "Approved for $.....", and over his official title.

Per .....

Title .....

16—22900-3

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.)

16—22900-2 ☆ U. S. GOVERNMENT PRINTING OFFICE : 1950—O-75806

EA Form 7
2-56)

OFFICIAL FILE COPY

Date	Surname	Code

500

January 24, 1958

Memorandum

To: Mr. W. B. Chamberlain, Statistics Branch
Division of Operation Control & Statistics

From: Director, Division of Base Metals

Subject: Semi-Annual Reports on Certified Projects

With reference to your January 23rd memo, on the eighteen certified projects you listed, only three are actually delinquent in the Field. They are:

Docket No. DMEA-1 & 1A	Chief Consolidated Mining Company
Docket No. DMEA-434	Lead Carbonate Mines, Inc.
Docket No. DMEA-1297	East Ridge Mining Company

We shall write Region III requesting that the proper reports be made.

Much of the lack is due to error in this office, it seems that it was not clearly understood that inactive projects nevertheless, should be reported to you. The following were properly reported by the Field but the information was not sent to you.

Inactive during the period January 1 - June 30, 1957.

Docket No.	Contract No.	Name
DMEA- 171	Idm-E291	West Park Mining Company
DMEA- 627	Idm-E 34	Cadwell Mining Company
DMEA-1175	Idm-E251	Meader Mining Company
DMEA-1708	Idm-E229	Kentucky-Utah Mining Company
DMEA-1959	Idm-E223	Hoodoo Mines (Gardner & Vance)
DMEA-2612	Idm-E489	Gramore Company
DMEA-2835	Idm-E529	New Penn Mines, Inc.

8623

Active during the period.

Docket No. DMEA-113 Contract No. 265 New Quincy Mining Company

Produced 64 tons of ore. DMEA reserve now totally depleted and no tonnage remains.

Four of the contracts you listed are still active projects and we do not receive Semi-Annual reports. They are:

Docket No. DMEA-1635 Silver Star-Queen Mines
Docket No. DMEA-2719 Day Mines, Inc.
Docket No. DMEA-2826 Providence Tuolumne Gold Mines, Inc.
Docket No. DMEA-3548 Ross Mines, Inc.

Three were paid in full and no reports could be demanded, they were:

Docket No. DMEA-1526 Vermont Copper Company, Inc.
Docket No. DMEA-1727 Vinegar Hill Zinc Company
Docket No. DMEA-2444 Outlet Mining Company

W. R. Griswold

W. R. Griswold

WRG/er
Copy to: Dockets (8)
Mis. File
Charon.

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

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 16 1957

DATE	INITIALS	CODE
12/16	C	220
/16	Cow	100
18	Jwa	500

November 25, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Final inspection report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743 (Amended)

The interim report of October 25, 1957, covering the (last) inspection of October 8, constitutes the final inspection report.

On October 13 Mr. Hewitt told Mr. W. C. Prinz, USGS (Prinz' memorandum to the Field Team dated October 23, 1957) that the 145 level was inaccessible because of water.

On October 21 the Operator submitted his final voucher covering the period September 1-October 8. Final status follows:

Date of contract: September 18, 1956 Contract amount: $57,208.50
Termination date: October 18, 1957 Amount spent: 39,425.00 (thru Sept.)

Stage II	Authorized	Completed	Vouchered
Cut 3 DD stations, Roch. Level	30 ft.	0	0
Diamond drill from Roch. Level	650 ft.	0	0
Sink winze from Roch. Level	100 ft.	99.2 ft.	99.5 ft.
Drift and/or crosscut from winze	300 ft.	268 ft.	268 ft.
Timbering	120 ft.	0	0
Assaying	100 samples	60	60
Engr.-Geol.	8 days	8	8

Stage III

Not started

The Government has no equity in equipment used on the project.

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

John A. Bowsher

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 29 1957

DATE	INITIALS	CODE
11/29	C	220
29	Copy	100
12/2	all	500.

October 25, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743 (Amended)

The project was visited October 8, accompanied by Mr. Bruce Hewitt. The previous inspection was on September 9.

During the interim the NW-SE vein, 145 L, was advanced to the NW (left wall) 27 feet from the west wall of the main drift. Two sulphide veinlets were intersected; the first at 19 feet from BM 738 strikes N. 34° E. and dips 54° SE; the second at 29 feet from BM 738 strikes N. 48° E. and dips 25° SE. The first vein varies from 3-6 inches in width and contains good sulphide mineralization. The second vein has a maximum width of about 3 inches and contains sulphide mineralization and barite gangue. A third veinlet, cutting the first two veinlets and striking N. 28° W. and dipping 67° SW, was barren; it varied from 1-3 inches in width and was filled with barite. On company time the Operator drilled a long hole from the face; course of the hole was N. 23° W. and it was barren to its bottom at 20 feet.

On the 100 L the Operator (on company time) explored the vein to the southwest for about 32 feet from the winze and found only narrow structure and scanty mineralization.

Mr. Bruce Hewitt reported that the company directors had met and voted to stop all mining activities. He was informed that a detailed letter should be forwarded to the Field Team regarding this.

Status of the contract is given on the attached sheet.

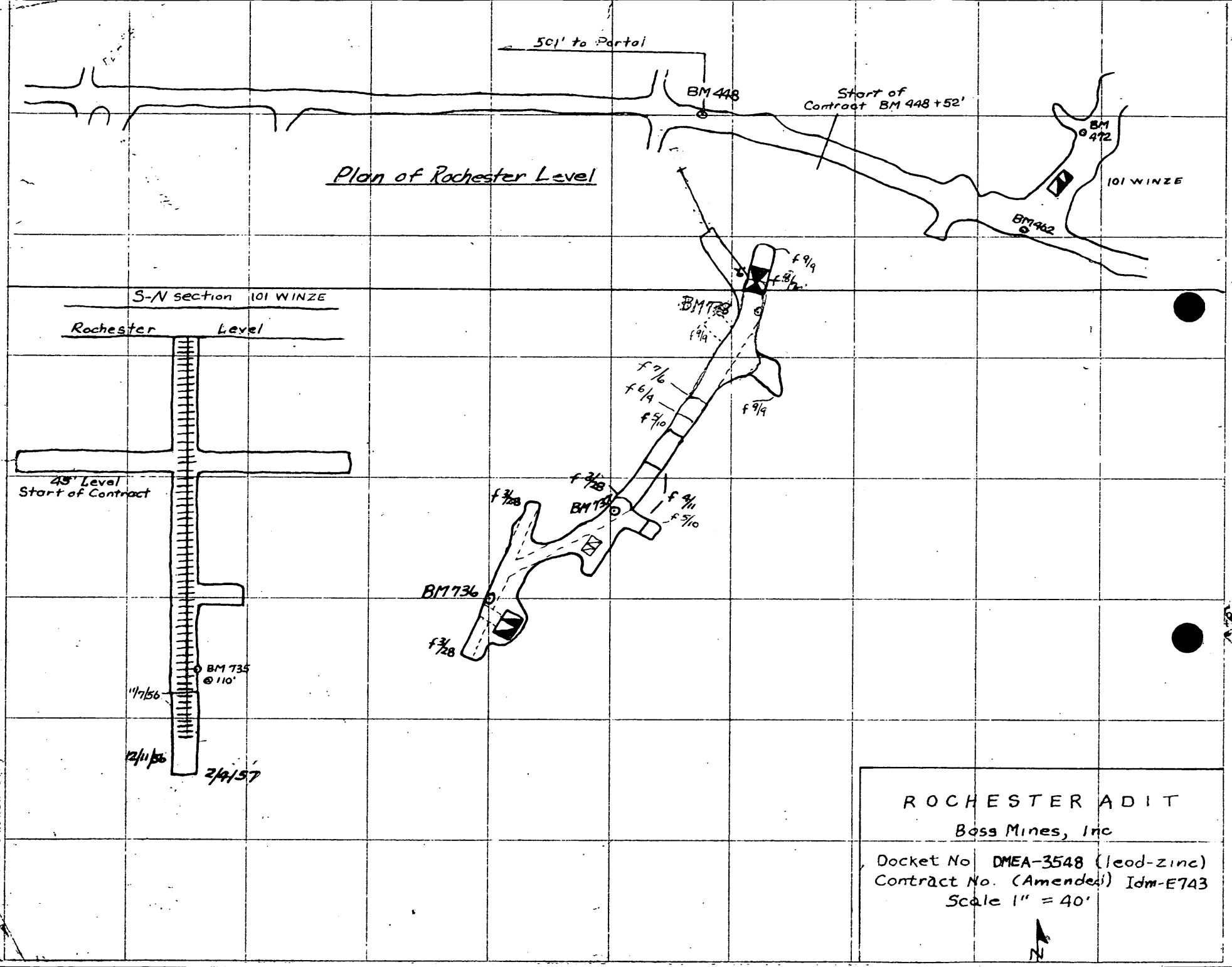
Distribution:
DMEA (4)
USGS (2)
USBM (AD)
Docket
Bowsher

John A. Bowsher

Contract No. Idm-E743

Date of contract: September 18, 1956 Interim inspection: 10/8/57
Termination date: October 18, 1957 " report: 9/9-10/8/57
Contract amount: $57,208.50
Amount spent: 38,345.00 (thru August 1957)

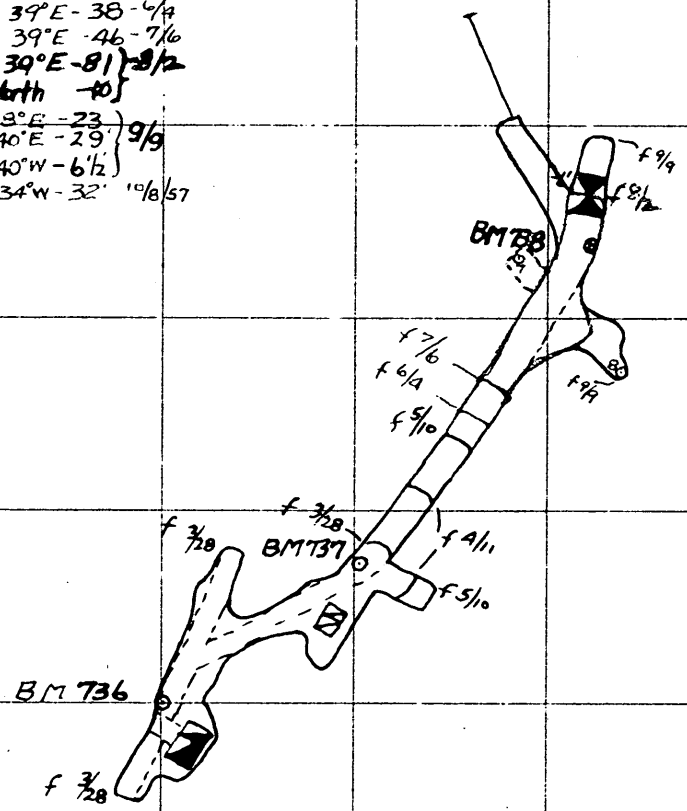
Stage II	Authorized	Advance	Completed	Vouchered
Cut 3 DD sta., Roch. L.	30 ft.			
DD from Roch. L.	650 ft.			
Sink winze from Roch. L.	100 ft.		99.2 ft.	99.5 ft.
Dft and/or XC from winze	300 ft.	27 ft.	268 ft.	236 ft.
Timbering	120 ft.			
Assaying	100 samples		54	52
Engr.-geol.	8 days		8	8


501' to Portal
BM 448
Start of Contract BM 448 + 52'
BM 472
101 WINZE
BM 462
Plan of Rochester Level
S-N section 101 WINZE
Rochester Level
45' Level
Start of Contract
BM 735 @ 110'
11/7/56
12/11/56
2/4/57
BM 738
f 9/9
f 8/9
f 7/6
f 6/9
f 5/10
f 3/28
BM 737
f 4/11
f 5/10
BM 736
ROCHESTER ADIT
Boss Mines, Inc
Docket No DMEA-3548 (lead-zinc)
Contract No. (Amended) Idm-E743
Scale 1" = 40'
N

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 29 1957

DATE	INITIALS	CODE

BM 736-Winze	S E-8	
" -face	N 32°E-35'	3/28/57
" - "	S 20°W-22'	
" - "	N 55°E-58'	
" -BM737	N 56°E-52'	
BM-737-face	N 47°E-20'	4/11/57
" - "	S 26°W-23'	
" - "	S 65°E-12'	
" - "	N 39°E-33'	5/10/57
" - "	S 62°E-16'	
" - "	N 39°E-38-6/4	
" - "	N 39°E-46-7/6	
" -BM738	N 39°E-81	8/2
BM738-face	North -10	
BM738- "	N 8°E-23	9/9
7-8	S 40°E-29'	
BM737+68-7	N 40°W-6½	
BM738-face	N 34°W-32'	10/8/57



ROCHESTER ADIT

Boss Mines Inc.

Docket No. DMEA-3548 (lead-zinc)

Scale 1" = 40'

N

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 29 1957

DATE	INITIALS	CODE

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 7 1957

DATE	INITIALS	CODE
10/7	B	220
9	[illegible]	100
10/11	Jwa	500

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

September 27, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: William C. Prinz, Geologist, U. S. Geological Survey

Subject: Interim inspection report, Docket No. DMEA-3548 (Lead-Zinc), Boss Mines, Inc., Boss and Atlantus claims, Cascade County, Montana, Contract No. Idm-E743

The property was examined September 9, 1957 accompanied by John A. Bowsher, Mining Engineer, U. S. Bureau of Mines, and Bruce Hewitt, Operator, and an office conference was held with C. L. Hewitt, President, at his home in Helena, Montana on September 10, 1957. Since the last visit on August 10, 1957, the operator has advanced the drift north on the 101 vein about 13 feet and the stub drift southeast about 10 feet. He has also put a small dog hole raise up on the vein intersection.

The strike of the 101 vein in the north drift is swinging around to the northeast to parallel the trend it had before the intersection with the southeast striking vein. At the present face, the 101 vein consists of a 12-inch wide zone of altered wall rock with some galena and sphalerite. It is a strong structure but is weakly mineralized.

The structure in the stub drift southeast has straightened out and strikes S. 45° E. and dips about 65° northeast. The mineralization along this vein is very erratic; in places it is only 1 inch wide but within a very short distance, it may open up into a lens or pod 15 inches wide. An assay of a sample cut across a 12-inch pod contained 0.02 ounce gold and 13.1 ounces silver per ton, 7.1 percent lead and 28.6 percent zinc. The values are high but are not continuous enough to mine, although the operator was able to extract a small amount of ore from the stub drift southeast.

This southeast striking vein cannot be identified on the Rochester crosscut and its extension upward is unknown. Non-DMEA drifting on the 50 and 100 levels has not been advanced far enough to the northeast to intersect the projected upward extension of this vein. Even though this vein is found on the 145-foot level near the

projected position of the 102 vein, it now appears doubtful that this represents the 102 vein, which on the Rochester adit strikes north-south and dips 73° west. Between the Rochester adit and the 145 level the 102 vein has either changed direction or has pinched out.

As yet, the operator has not drifted northwesterly along the west vein from the split just north of BM 738, and it was suggested that 10 to 15 feet of drifting in this direction might be informative. He has put in one round down (about 6 feet) in the area of this split, but at the time of the inspection, this was water filled. The writer still feels that the vein west from this split is a continuation of the vein found in the stub drift southeast.

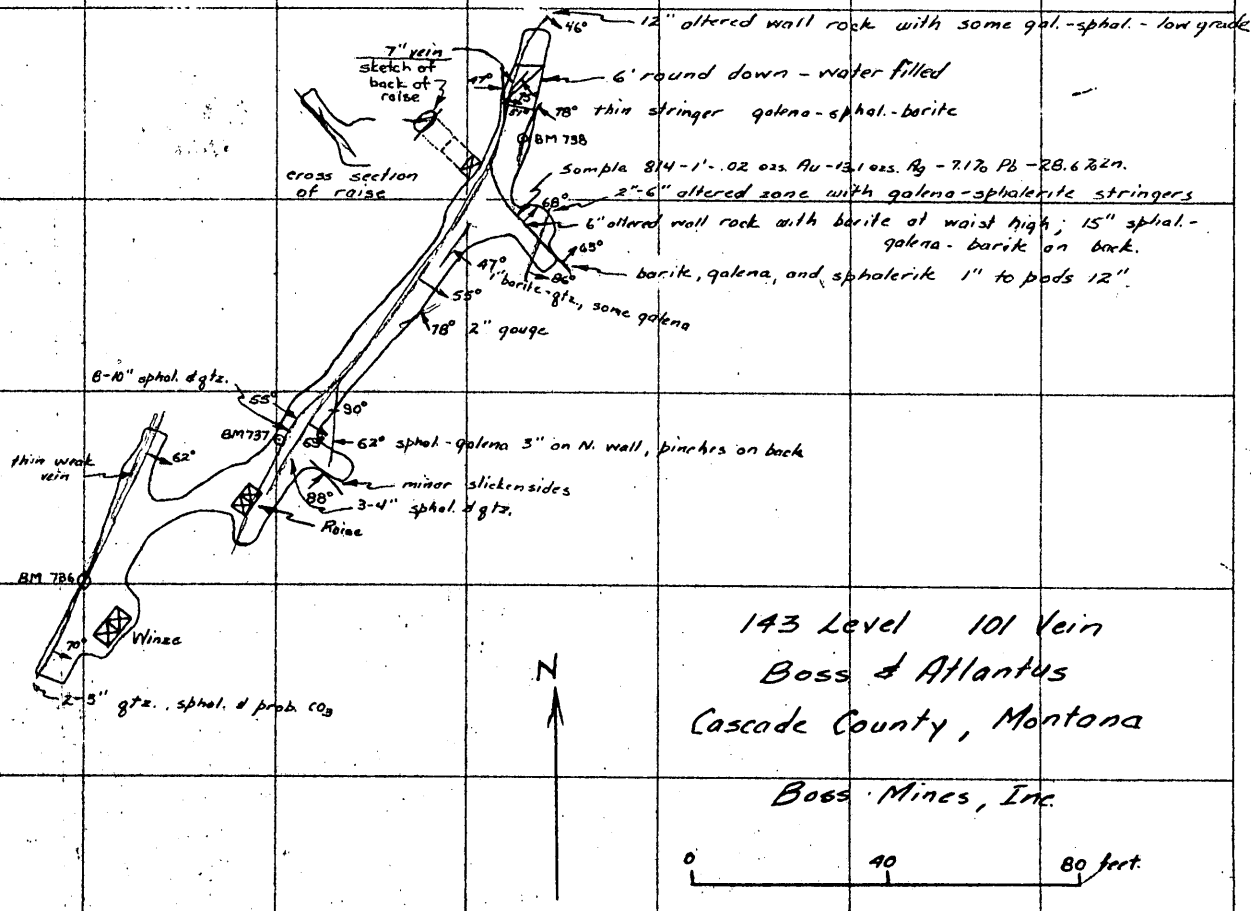
The non-DMEA raise on the 101 vein from the 100 level has broken through to the 50 level and in this area the ore body apparently has a vertical rake. On his own time, the operator is planning to drift southwest on the 101 vein from the winze on the 100 level (89 feet below the Rochester adit). Should this work lead to an ore body, there would be more incentive to do DMEA drifting southwest on the 145 level. The operator is somewhat reluctant to advance DMEA drifting on the 145 level rapidly because he feels that this level is below the ore, which was the case with the ore body northeast of the winze.

Enclosure

William O. Prinz

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

DMEA 354B


46°
12" altered wall rock with some gal.-sphal. - low grade
7" vein
sketch of back of raise
47°
6' round down - water filled
78°
thin stringer galena-sphal.-barite
BM 738
cross section of raise
Sample 814-1'-.02 ozs. Au-13.1 ozs. Ag - 7.1% Pb - 28.6% Zn.
68°
2"-6" altered zone with galena-sphalerite stringers
6" altered wall rock with barite at waist high; 15" sphal.-galena - barite on back.
65°
47°
86°
barite, galena, and sphalerite 1" to pods 12"
1" barite-qtz., some galena
55°
78°
2" gouge
6-10" sphal. & qtz.
55°
90°
BM737
65°
62° sphal.-galena 3" on N. wall, pinches on back
thin weak vein
62°
minor slickensides
88°
3-4" sphal. & qtz.
Raise
BM 736
Winze
70°
2-5" qtz., sphal. & prob. CO_3
N
143 Level 101 Vein
Boss & Atlantus
Cascade County, Montana
Boss Mines, Inc.
0
40
80 feet

OFFICIAL FILE COPY
D M E A
RECEIVED OCT 7 1957

DATE	INITIALS	CODE

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 14 1957
DATE | INITIALS | CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

September 13, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743 (Amended)

The project was visited September 9, accompanied by Messrs. W. Prinz, U. S. Geological Survey, and Bruce Hewitt, Operator. The previous visit was August 2.

During the interim the NE drift (145L) was advanced 13 feet for a total of 98 feet from its beginning at BM737 plus 6 feet. The present face is at BM738 plus 23 feet. Drifting on the NW-SE vein (intersected about 13 feet SW of BM738) was advanced in the east (right) wall a total of 20 feet.

Silver, lead and zinc sulphide mineralization is found, on the sill, in both veins but the values, reported by the Operator, are not economic. The structure appears to be persistent in strike but the width is narrow, varying from 4 to 10 inches. On company time the Operator explored the intersection of the veins by dog-holing vertical into the back, 10 feet, and on an incline up into the west wall, 15 feet. A 6-ft. round was put in the floor, 6 feet north of BM738. High grade mineralization was found in the floor and meager values in the dog-holing, but the structure in all places was weak and narrow in width.

The Operator, on company time, has advanced the 145 RN above the 100L and broken through the 50L sill, about 15 feet north of the winze. Stoping NE on the vein, 100L-50L, has not advanced because of low grade mineralization and narrow width of vein. Shipments continue from the stoped ore stored in the raise chute.

On September 10 a discussion was held with Mr. C. L. Hewitt at his home in Helena, Montana. He reported that he has contacted core drill contractors preparatory to beginning the core drilling (Stage II) from the Rochester level. Exploration of the NW-SE vein (145L) will be advanced NW for at least 10-15 feet, at the present. The Operator, on company time, will explore the vein on the 100L by penetrating the W wall near the winze and thence drift SW.

Rept

The termination date of the contract is October 18, 1957 and since the contract work cannot be completed between now and that date it is recommended that the contract be amended to advance the termination date 6 months to April 18, 1958.

The status of the contract is:

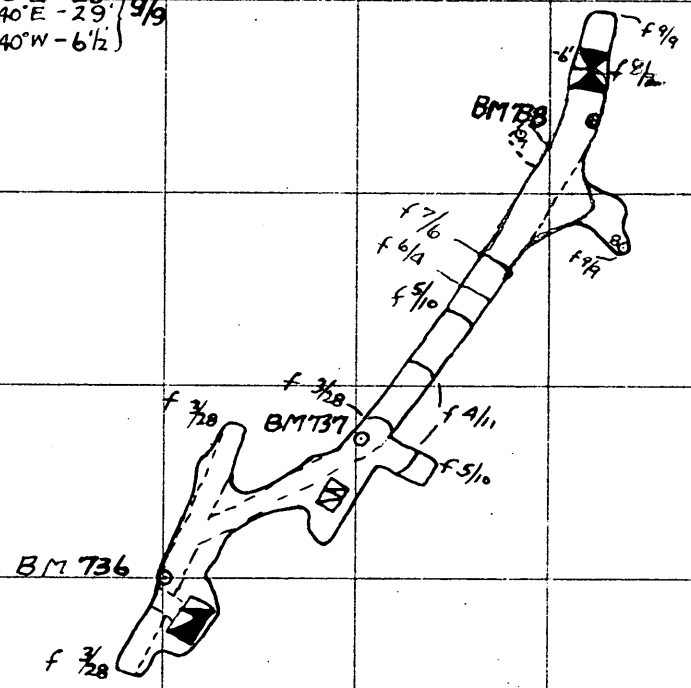
Date of amended Contract: September 18, 1956 Interim inspection: 9/9/57
Termination date: October 18, 1957 " report: 8/2-9/9/57
Contract amount: $57,208.50
Amount spent: 38,345.00 (thru August)

	Authorized	Advance	Completed	Vouchered Aug. '57
Stage II				
Cut 3 DD sta., Rochester L.	30 ft.			
DD from Rochester L.	650 ft.			
Sink winze from Roch. L.	100 ft.		99.2 ft.	99.5 ft.
Dft &/or XC from winze	300 ft.	33 ft.	241 ft.	236 ft.
Timbering	120 ft.		0	
Assaying	100 samples	10	54	52
Engr.-Geologist	8 days		8 days	8 days

John A. Bowsher

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

BM 736-winze	S E-8	3/28/57
" -face	N 32°E-35'	
" - "	S 20°W-22'	
" - "	N 55°E-58'	
" -BM737	N 56°E-52'	
BM-737-face	N 47°E-20'	4/11/57
" - "	S 26°W-23'	
" - "	S 65°E-12'	
" - "	N 39°E-33'	5/10/57
" - "	S 62°E-16'	
" - "	N 39°E-38	6/4
" - "	N 39°E-46	7/6
" -BM738	N 39°E-81	~~8/12~~
BM738-face	North ~~10~~	
~~BM738-~~ "	~~N8°E-23'~~	9/9
7-8	S40°E-29'	
BM737+68'-7	N40°W-6½'	



ROCHESTER ADIT

Boss Mines Inc.

Docket No DMEA-3548 (lead-zinc)

Scale 1" = 40'

"ALBANENE" NO. 1500M K&E CO., N.Y.

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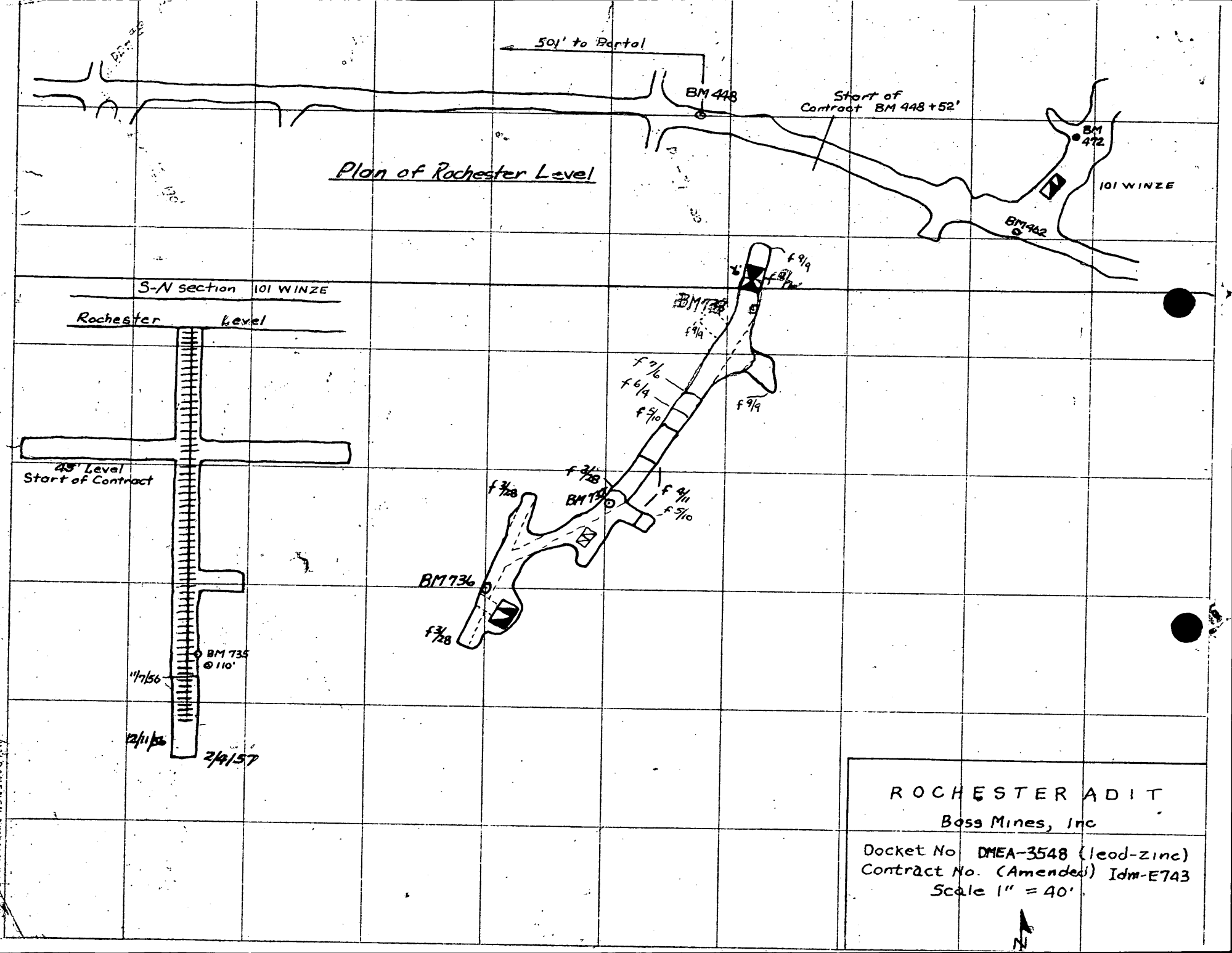
DATE	[illegible]	CODE


501' to Portal
BM 448
Start of Contract BM 448 + 52'
BM 472
101 WINZE
BM 462
Plan of Rochester Level
S-N section 101 WINZE
Rochester Level
45' Level Start of Contract
BM 735 @ 110'
11/7/56
12/11/56
2/4/57
f 9/9
f 8/9
BM 728
f 9/9
f 7/6
f 6/9
f 5/10
f 9/9
f 3/28
BM 731
f 4/11
f 5/10
f 3/28
BM 736
f 3/28
ROCHESTER ADIT
Boss Mines, Inc
Docket No DMEA-3548 (lead-zinc)
Contract No. (Amended) Idm-E743
Scale 1" = 40'
N

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DATE	[illegible]	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

August 16, 1957

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DATE	INITIALS	CODE
9-16	C	226
9/17	Jwa	500

9/19

MEMORANDUM

To: DMEA Field Team, Region I

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743 (Amended)

The project was visited August 2, accompanied by Messrs. W. Prinz, U. S. Geol. Survey, and C. L. Hewitt and Bruce Hewitt, Operators. The previous visit was July 6.

During the interim the NE drift (145 L) has been advanced 45 feet for a total of 85 feet from its beginning at BM 737 plus 6 feet. A new measure point, BM 738, was set at 81 feet from BM 737 and BM 738 is at 75 feet from the beginning of the drift. The present face is at BM 738 plus 10 feet.

About 11 feet from the present face an NW-SE vein was encountered and it merges with the NE vein followed in the drift. The new vein, about 8-12 inches wide and carrying lead-zinc sulphide mineralization, appears to be persistent where it issues from the east wall. The merging veins as one vein strike more northerly than formerly.

On company time the Operator continues to advance the 100 L drift northeasterly and has also carried the 145 RN to about 30 feet above the 100 L sill. Ore shipments continue to be made to Salt Lake City, Utah.

A discussion was had with the Operator regarding the contract work. He had not planned to start the core drilling (Stage II) in the near future, and it was pointed out to him that about two-thirds of the drifting and/or crosscutting in Stage II had been completed and starting similar work in Stage III had to be approved in advance by the Government. He was informed to consider beginning the core drill work (Stage II).

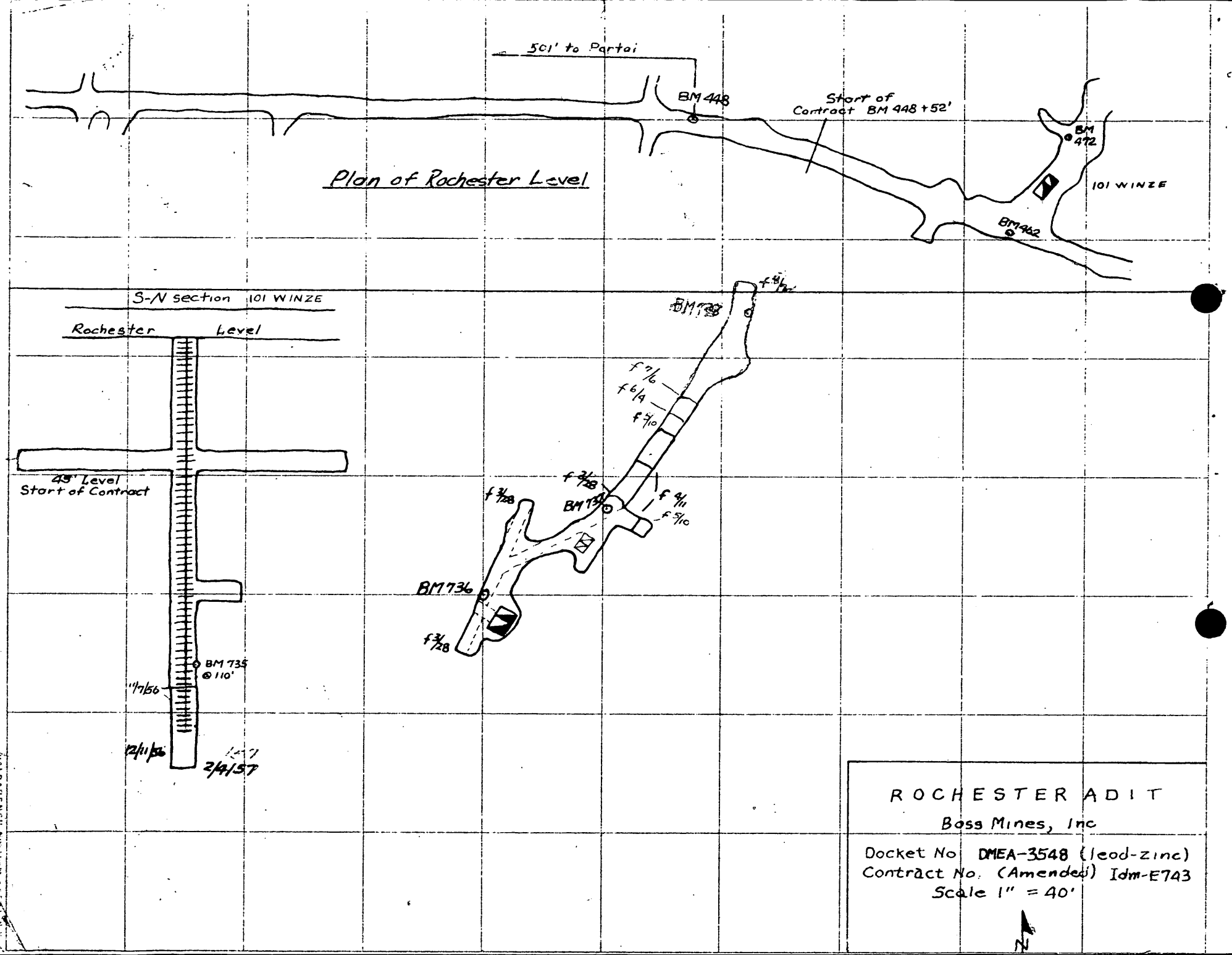
Contract No. Idm-E743

Date of contract: Sept. 18, 1956
Termination date: Oct. 18, 1957
Contract amount: $57,208.50
Amount spent: 35,897.00 (thru June '57)

	Authorized	Advance	Completed	Vouchered July '57
Stage II				
Cut 3 DD sta., Roch. L.	30 ft.			
DD from Roch. L.	650 ft.			
Sink winze from Roch. L.	100 ft.			99.5 ft.
Dft. and/or XC from winze	300 ft.	45 ft.	208 ft.	208 ft.
Timbering	120 ft.			
Assaying	100 samples			44
Engr.-geol.	8 days			8

John A. Bowsher

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


501' to Portal
BM 448
Start of Contract BM 448 + 52'
BM 472
101 WINZE
BM 462
Plan of Rochester Level
S-N section 101 WINZE
Rochester Level
49' Level Start of Contract
BM 735 @ 110'
11/7/56
12/11/56
2/4/57
BM 738
f 7/6
f 6/9
f 7/10
f 3/28
BM 739
f 4/11
f 5/10
f 3/28
BM 736
f 3/28
ROCHESTER ADIT
Boss Mines, Inc
Docket No DMEA-3548 (lead-zinc)
Contract No. (Amended) Idm-E743
Scale 1" = 40'
N

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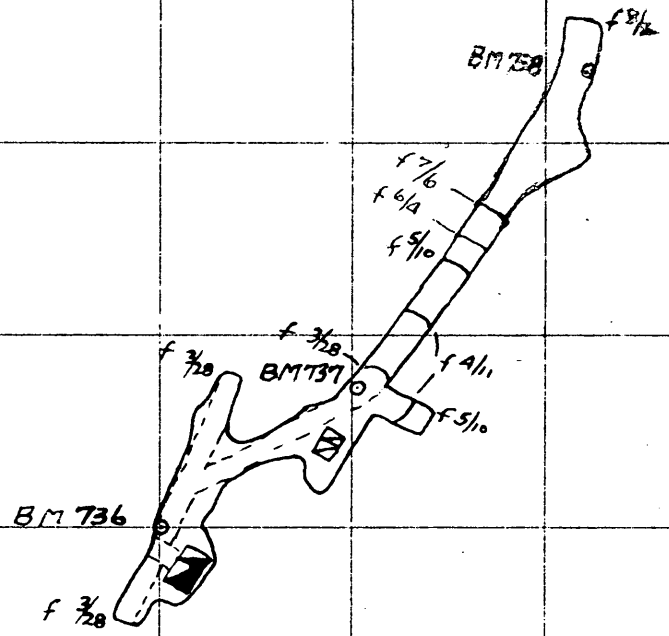
DATE	INITIALS	CODE

BM 736-winze	S E-8'	3/28/57
" -face	N 32°E-35'	
" - "	S 20°W-22'	
" - "	N 55°E-58'	
" -BM737	N56°E-52'	4/11/57
BM-737-face	N 47°E-20'	
" - "	S 26°W-23'	
" - "	S 65°E-12'	
" - "	N 39°E-33'	5/14/57
" - "	S 62°E-16'	
" - "	N 39°E-38	6/9
" - "	N 39°E-46	7/6
" - BM738	N 39°E-81	8/12
BM738-face	North -10	



ROCHESTER ADIT

Boss Mines Inc.

Docket No DMEA-3548 (lead-zinc)

Scale 1" = 40'

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DMEA
RECORDS SERVICE 1957
DATE | INITIALS | CODE

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

9/17

Official
~~EXTRA~~ COPY
DMEA
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DATE	INITIALS	CODE
9-16	C	220
9/17	jwa	500

September 3, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: William C. Prinz, Geologist, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-3548 (Lead-Zinc), Boss Mines, Inc., Boss and Atlantus claims, Cascade County, Montana, Contract No. Idm-E743

The property was examined on August 2, 1957 accompanied by John A. Bowsher, Mining Engineer, U. S. Bureau of Mines, and C. L. Hewitt and Bruce Hewitt, Operators. The 100 level drift and stope and the 143 level drift were examined.

Non-DMEA work on the 100 level (about 89 feet below the Rochester adit) consists of drifting along the 101 vein northeast from the winze for about 42 feet. At the breast of this drift is a zone of altered wall rock, 3 to 4 feet wide, with stringers of galena and sphalerite. This zone dips 88° southeast and is bounded on the southeast by a shear zone. Between 20 and 35 feet northeast of the winze, the vein has been stoped up for about 30 feet. Unfortunately, the raise connecting the 143 and 100 levels was still inaccessible.

Mapping on the 143 level was brought up to date (see attached map). The main vein the operator has been following persists with about the same strike and dip until near the face of the drift. Here it has split into two veins and has a more northerly strike than previously seen along the drift. About 20 feet back from the face, the operator encountered a southeast striking, northeast dipping cross structure along which he has put out one round to the southeast. On the back of this stub drift southeast, the cross vein is 15 inches wide and consists of high grade galena and sphalerite with some barite gangue. At the top of the muck pile in this stub drift (about waist high) the vein has pinched to 6 inches and is almost completely barren of sulfides. Also, the vein was not found northwest of the main vein but appears to merge with it. The split near the face may be the two veins splitting again.

In the operator's July 1957 Narrative Report, the following assays for the cross vein are given:

Sample no.	Width (inches)	Au ozs./ton	Ag ozs./ton	Pb (%)	Zn (%)
6145	20	0.05	140.0	1.0	Assayer lost Zn
6147	20	0.005	4.0	1.6	35.3

Sample 6145 is from near the intersection of the two veins, sample 6147 is from the back at the breast of the stub drift southeast.

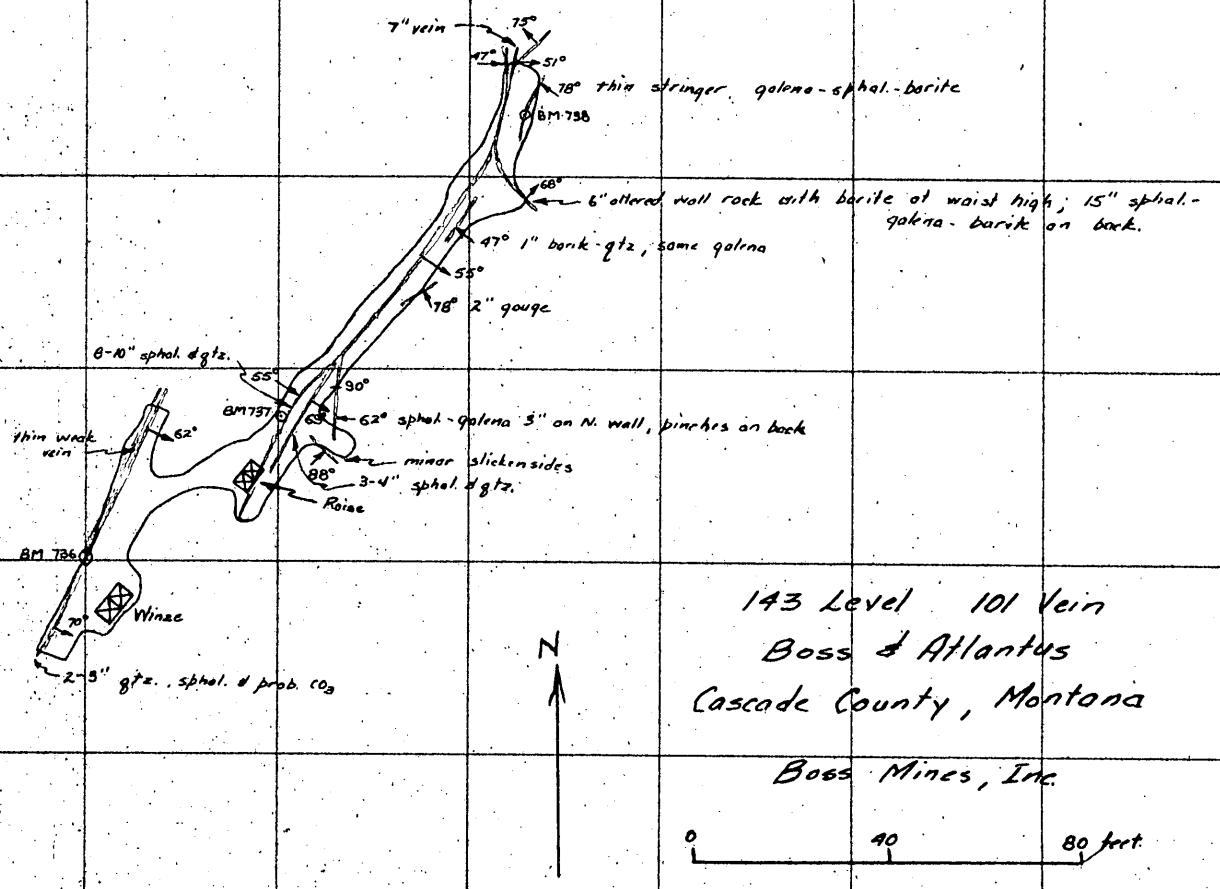
Although this intersection occurs where the intersection with the 102 vein was expected, it is not known, at the present, whether this cross vein is the 102 vein or not. If it is, there has been a marked change from the N-S strike, 73° west dip observed on the 102 vein in the Rochester adit. The operator plans to continue drifting north along the main structure and to drift southeast along the cross structure. He was informed that the drifting southeast was covered by the contract. On his own time, he also plans to raise on the cross structure from the stub drift southeast.

The operator was questioned regarding his plans for Stage II diamond drilling and replied that he had as yet made no definite plans. It was pointed out to him that he was nearing the end of Stage II drifting and that Stage III drifting would probably not be authorized until Stage II drilling was completed and that he should therefore begin to think of starting the drilling.

Enclosure

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

DMEA 354B



143 Level 101 Vein
Boss & Atlantus
Cascade County, Montana

Boss Mines, Inc.

OFFICIAL FILE COPY
D M & A
RECEIVED SEP 16 1957

DATE	INITIALS	CODE

Form MF-169 (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

Amended

Month of August, 1957 Docket No. DMEA 3548 Contract No. DM E2743
Operator's Name Boss Mines, Inc. Minerals Lead, Zinc
Address 545 N. Rodney, Helena, Montana
Contract Amount, $ 57208.50 Government Participation: 50 % Amount, $ 28604.25

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:				12/18/57 O.P.K.		9/30/57. J.W.A.
Drilling						
Bulldozing						
Crosscutting	00	2475.00	2475.00		2310.00	2310.00
Drifting	924	4554.00	5478.00	924.00	4554.00	5478.00
winze sinking	00	8457.50	8457.50		8457.50	8457.50
(2) Labor and Supervision:						
Labor						
Supervision						~~Otto~~
Technical Services						Betty
(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	30	132.00	162.00	30.00	126.00	156.00
Payroll Taxes						
Liability Insurance						
Eng. Geologist	00	400.00	400.00		400.00	400.00
(8) Contingencies (specify):						
Stage I	✓				21543.50	21543.50
TOTALS	954.00	16018.50	16972.50	954.00	37391.00	38345.00

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

Date Sept 10, 1957 *Payee Boss Mines, Inc.

Per C. Hewitt 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:

$ 477.00

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 9/13/57 Vou. No. 2046

(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 743 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldak Title Mining Eng. Date 9/13/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Donald R. MacPhee Title Alternate Acting Exec. Officer Date 9/13/57

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-164A
(April 1952)

Budget Bureau No. 42-R1151.2

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

Amended

Month of August 1957 Docket No. DMEA 3548 Contract No. IDM E 743

Operator's Name Boss Mines, Inc. Minerals Lead - zinc

Address 545 N. Rodney, Helena, Montana

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	ft.	924	28	5478	166			
Crosscutting	ft.	00	00	2475	70			
Raising								
Shafts								
Winzes	ft.	00	00	8457.50	99.5			
Drilling: Core								
D.D. ~~Chip~~ station								
D.D. ~~Auger~~ station								
Stripping								
~~Timbering~~ Drift &								
~~Timber~~ crosscut timber								
~~Roads and Trails~~ A seays	ea.	30	10	~~162~~ 156	52			
Eng.Geologist	da.	00	00	400	8			
TOTAL DISTRIBUTED COSTS		954	38	16972.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date Sept. 10, 1957 Operator Boss Mines, Inc.

Per C. H. Hewitt 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.

(Instructions on reverse)

REMARKS:

(For Government use only)

/s/ John A. Bowsher
Mining Engr. 9/12/57

/s/ S.W.Z.
9-13-57

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

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DATE | INITIALS | CODE

Helena, Montana
September 10, 1957

Re: Boss Mines, Inc.
545 N. Rodney, Helena, Montana
Docket No: 3548
Contract No: Amended ~~IBM-2-146~~

Bureau of Mines
DMEA
Administration Bldg.
School of Mines
Butte, Montana

Gentlemen:

In the month of August 1957, we extended the north drift on the 150' level, a distance of 13 feet. The vein is approximately the same size and not quite as heavily mineralized in the breast of the drift as it was 12 or 14 feet to the south. At a point about 94 feet from B.M. Station 737, our lifters brought up large chunks of very high grade lead-zinc ore with a silver content up to 697 oz. per ton, the lead 15% and about the same in zinc. We put a round down below the tunnel level and it was about 16 inches wide, two feet below track level but split up in smaller seams below that. We intend to put in a few rounds on the west side of the drift to see if another vein is coming in from that direction as the ore is entirely different in character from the ore which is in the vein we have been following in this north drift.

The cross vein which crosses our north drift 80 feet north of B.M. Station 737, as described in July narrative report, looked strong going east, also west, so we drifted 15 feet to the east but it shows only bunches of ore - 12 to 36 inches wide so this work was suspended. We also followed this vein in a raise 18 feet above the sill, along the foot wall of the north vein but it shows no improvement.

We now intend to try to pick up the main vein, on which we have been stoping, to the south of the shaft, at the 100 foot level. This will not be on contract but will indicate whether it will be advisable to crosscut this vein to the south of the shaft on the 150 foot level or not.

Yours very truly,

BOSS MINES, INC.

C. L. Hewitt

C. L. Hewitt, President

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

SEP 12 REC'D

Date AUG 3 - 1957

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

ASSAYED FOR Boss Mines Inc. Box 904

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
	no tag									
6148	8" ORE - N. DRIFT - 5' N. OF X VEIN	Trace	3.0	0.4		14.3				
6149	N. VEIN - 5' N. OF X VEIN HANGING WALL TO SAMPLE 6148 - 8" - MIXED SULPSPAR	Trace	3.9	0.2		1.7				
6150		0.01	13.2	4.2		35.6				
	X VEIN - 10' - E OF N. DRIFT - SULPHIDES - 25" WIDE IN BACK OF DRIFT VEIN NARROWS TO 4" IN BOTTOM OF DRIFT									

Gold not deducted: _____

Charges $ fd 20 =

GOODALL BROS.

By A. V. Trent

SEP 12 REC'D

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

Date AUG 6 - 1957

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

ASSAYED FOR Boss Mines Inc. Box 904

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6151	VEIN IN N. DRIFT-	0.005	24.0	2.2		9.9				
6152	5' PAST (N) X VEIN.- 10" WIDE	0.005	46.1	2.0		7.1				
	X VEIN - 5' E. OF N. VEIN DRIFT - 24" WIDE IN BACK									

Gold not deducted: _____

Charges $ 10.00

GOODALL BROS.

By A. V. Trent

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

TEL. HI 2-2770
P. O. BOX 537

SEP 12 REC'D

Date AUG 15 1957

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

ASSAYED FOR Boss Mines Inc. Box 904

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6154	large chunks of ore from north end wings sunk in N. drift - 15 FT N. OF X VEIN. Sample Taken - 2 ft below bottom of drift. vein splits into 3 - 2" streaks - going down. Entirely different from vein on which N. drift has been sunk.	0.03	696.8	15.6		4.8				

Gold not deducted: _____

Charges $ 5.00

GOODALL BROS.

By C. B. Trent

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

SEP 12 REC'D

TEL. HI 2-3770
P. O. BOX 537

Date AUG 21 1957

UMPIRE ASSAY_____ CONTROL ASSAY_____ HAND SAMPLE_____

ASSAYED FOR: Bass Mines Inc.

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6155	X VEIN - 16' - E.	Trace	7.0	9.6		9.5				
6156	N DRIFT CENTER	0.005	44.7	5.0		4.1				
	14" WIDE - Dip N-8°									
	STRIKE N.50 E.									
	X VEIN - W. FACE									
	24" WIDE AT JUNCTION									
	WITH. N. VEIN									

Gold not deducted:_____

Charges $ 10.00

GOODALL BROS.

By A. V. Trent

SEP 12 REC'D

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

TEL. HE 2-3770
P. O. BOX 597

Date AUG 27 1957

UMPIRE ASSAY

CONTROL ASSAY

HAND SAMPLE

ASSAYED FOR Boss Mines Inc. Box 904

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6158	X VEIN - 18' ABOVE SILL	Trace	3.4	5.2		5.3				
6159	IN RAISE - W. SIDE OF NORTH DRIFT	0.01	118.3	13.8		26.1				
	22' WIDE - SULPHIDE & SOFT SPAR.									
	FRAGMNTS OF HI-GRADE THROWN UP FROM BOTTOM OF N. DRIFT IN 14' N OF X VEIN									

Gold not deducted:

Charges $ 10.00

GOODALL BROS.

By A. T. Jens

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

Budget Bureau No. 42-R1036.5

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

RECEIVED NOV 4 1957 D.M.E.A.

Amended

Month of September 195 7 Docket No. DMEA 3546 Contract No. IDI E 743
Operator's Name Boss Mines, Inc. Minerals lead - zinc
Address 545 N. Rodney, Helena, Montana
Contract Amount, $ 57208.50 Government Participation: 50 % Amount, $ 28604.25

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:				12/18/57		11/7/57
Drilling						
Bulldozing						
Crosscutting	1056.00	2475.00	3531.00	1056.00	2210.00	3266.00
Drifting	00	5478.00	5478.00		5478.00	5478.00
winze sinking	00	8457.50	8457.50		8457.50	8457.50
(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	24	162.00	186.00	24.00	156.00	180.00
Payroll Taxes						
Liability Insurance						
Eng. Geologist	00	400.00	400.00		400.00	400.00
(8) Contingencies (specify):						
Stage I					21543.50	21543.50
TOTALS	1080.00	16972.50	18052.50	1080.00	38345.00	39425.00

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

Date 10-13-57 *Payee Boss Mines, Inc.

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:

$ 340.00

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 11/1/57 Vou. No. 2066

(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. E243 in accordance with the terms of the contract.

Signature /s/ John A. Bowsher Title Mining Engr. Date 10/25/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Oct. 29, 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED NOV 4 1957 D.M.E.A.

OCT 21 REC'D

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

Month of September 1957 Docket No. DMEA 3548 Contract No. IDM E 743 Amended

Operator's Name Boss Mines, Inc. Minerals lead - zinc

Address 545 N. Rodney, Helena, Montana

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
					268			
Drifting	ft.	00	00	5478.00	166		300 ft.	Page III @ 33.00
Crosscutting	ft.	1086	32	~~3531.00~~ 3366.00	102		206 "	" III @ 33.00
Raising								
Shafts								
Winzes	ft.	00	00	8457.50	99.5			
Drilling: Core								
D.D station								
D.D. station								
Stripping								
drift &								
crosscut timber								
Assays	ea.	24	8	186.00	60			
Eng. Geologist	da	00	00	400.00	8			
TOTAL DISTRIBUTED COSTS		1090	40	18052.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date 10-10-57 Operator Boss Mines, Inc.

Per [signature] Title President

REMARKS:

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

(Instructions on reverse)

(For Government use only)

/s/ John A. Bowsher
Mining Engr., 10/25/57

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

OCT 21 REC'D

EXTRA COPY
D M E A
RECEIVED 4 1957

DATE	INITIALS	CODE

Helena, Montana
October 19, 1957

Bureau of Mines
D. M. E. A.
Administration Bldg.
School of Mines
Butte, Montana

Re: Boss Mines, Inc.
545 N. Rodney, Helena, Mont.
Docket No: 3548
Contract No: IDM E 743 - Amended

Gentlemen:

Through the month of September, 1957, our contract work was confined to 5 feet extention of the east drift on crosscut vein on 150 level, and 27 feet crosscutting in west crosscut on 150 foot level starting from B.M. station #738.

The 5 feet in the east drift on cross vein, above mentioned was not included in August report as it was completed after checking, so we have included it in this, the September report.

In the west crosscut, we intersected three veins, 8 inches, 10inches and 11 inches respectively. These veins are too small for mining separately and too far apart to be mined together.

The drilling that was done on the 101 level, not on contract, was to check on ore showing on 50 foot level. We also did approximately 20 feet of drifting on main vein on the south 100 level to determine if showing there would warrant cutting vein and drifting on it from the 150 foot level. It did not show sufficient values to warrant this work at present prices.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt, Pres.

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

OCT 21 REC'D

ASSAYERS AND METALLURGICAL CHEMISTS
46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

Date SEP 4 - 1957

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

ASSAYED FOR Boss Mines Inc.

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6160	12" OF ORE - FACE OF	0.01	31.0	12.4		34.1				
	E. X VEIN - 150 LEVEL									
	15' FROM 150 DRIFT.									

Gold not deducted _____

Charges $ _____

GOODALL BROS.
A. V. Trent
By _____

A. V. TRINITY,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

TEL. EH 2-3770
P. O. BOX 537

OURS TO PY. SEPT.

OCT 21 REC'D

Date SEP 5 - 1957

UMPIRE ASSAY

CONTROL ASSAY

HAND SAMPLE

ASSAYED FOR Boss Mines Inc. Bu 904

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6161	12" VEIN - W. x CUT FROM ~~B.M. STN 738 - 150 LEVEL DIPSSE~~	0.01	34.8	2.2		4.1				
6162	LONG HOLE FROM 101 DRIFT ~~N.62 - FIRST 20' RUN. WEST~~	Trace	3.4	0.4		0.1				
6163	LONG HOLE DRILLINGS - SAME ~~AS ABOVE - 19.12 TOTAL SULPHIDES~~	0.005	58.8	4.2		2.7				
6164	X VEIN E. ON 150 LEVEL 3' FROM DRIFT - 20" WIDE	Trace	3.7	2.8		2.5				

Gold not deducted:

Charges $ 20 oz

GOODALL BROS.

By

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

Date SEP 19 1957 OCT 21 REC'D

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

ASSAYED FOR Boss Mines Inc. | Box 904 MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6165	ORE DUMP CAR SAMPLES ALL ORE FROM 150-E. X VEIN	Trace	17.8	3.4		8.1				
6166	10" ORE CROSSING W. X CUT FROM 150 LEVEL AT STATION 738 - 19' W. FROM 738 STATION.	Trace	18.8	16.0		17.4				

Gold not deducted: _____

Charges $ 10.00

GOODALL BROS.

By A. V. Trent

A. V. TRENT,
Consulting Metallurgist

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

TEL. HE 2-2770
P. O. BOX 537

SAMPLE TAKEN SEPT. 29

Date ~~OCT 4 - 1957~~

OCT 21 REC'D

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

ASSAYED FOR Boss Mines Inc. Box 904

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6169	FACE S. DRIFT ON	Trace	10.5	8.2		7.3				
	100 LEVEL - ~~20~~ 18'-SOUTH									
	OF WINZE - ORE - 49" WIDE.									
	CONSIDERED TOO LOW									
	GRADE TO WARRANT CROSS									
	CUTTING ON 150									
	FT LEVEL.									

Gold not deducted _____

Charges $ 50

GOODALL BROS.

By A. V. Trent

DMEA Field Team, Region I

August 30, 1957

DMEA Certifying Officer, Region I

Contract No. Idm-2743, Docket No. DMEA-3548, Boss Mines, Inc.
Monthly operating report for July 1957

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

We have deleted $6.00 for two assays which were assayed for lead and silver only. The contract states in part "Samples to be assayed for lead, zinc, and silver".

Dorothy Long

cc: DMEA (2)
USGS (2)
Contract Admin. & Audit Div. (2)

extra

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 6 1957

DATE	INITIALS	CODE
9/6	[illegible]	110
9/13	[illegible]	500

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

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 19 1957

DATE	INITIALS	CODE
8/19	Com	100
8/21	Jua	500

July 29, 1957

MEMORANDUM

To: DMEA Field Team, Region I

From: William C. Prinz, Geologist, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-3548 (Lead-Zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743

The project was visited July 6, 1957, accompanied by R. D. Sample, Geologist, U. S. Geological Survey, J. A. Bowsher, Mining Engineer, U. S. Bureau of Mines, and Bruce Hewitt, Operator. The main 143 level drift has been advanced about 45 feet northeast since the last geologist's inspection. The two veins which the Operator had been following merge into one vein which at the present face is 6 to 8 inches wide and dips 55° to 60° southeast. Holes were loaded for the days blasting so only a brief examination of the vein could be made.

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

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

BUREAU OF MINES
AUG 21 1957

W

Budget Bureau No. 42-R1036.5

AUG 12 REC'D

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

Month of July, 1957 Docket No. DMEA 5548 Contract No. Amended DMEA 748

Operator's Name Dona Mines, Inc. Minerals Lead - Zinc

Address 545 N. Rodney, Helena, Montana

Contract Amount, $ 57,808.50 Government Participation: 50 % Amount, $ 28,604.25

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:				12/18/57.		9/17/57.
Drilling						
Bulldozing						
Crosscutting	00	2475.00	2475.00	✓	2310.00	2310.00
Drifting	1485.00	3069.00	4554.00	1485.00	3069.00	4554.00
Mine mining	00	8457.50	8457.50		8457.50	8457.50
(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	15.00	117.00	132.00	9.00	117.00	126.00
Payroll Taxes						
Liability Insurance						
Inc. Geologist	00	400.00	400.00		400.00	400.00
(8) Contingencies (specify):						
Stage I					21543.50	21543.50
TOTALS	1500.00	14518.50	16018.50	1494.00	35897.00	37,391.00

RECEIVED SEP 6 1957 D.M.E.A.

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

Date Aug 9, 1957 *Payee Dona Mines, Inc.

Per C. Heerit 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:

$ 747.00

Signature Dorothy F. Long (Authorized Certifying Officer)

Date 8/30/57 Vou. No. 2032

(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 743 in accordance with the terms of the contract.

Signature /s/ John A. Dawsher Title Mining Eng. Date 8/21/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Aug. 22, 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form E[illegible]
(April [illegible])

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

AUG 12 REC'D

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1957 Docket No. DMEA 3548 Contract No. Amended [illegible] 743

Operator's Name Boss Mines, Inc. Minerals Lead - zinc

Address 245 N. Rodney, Helena, Montana

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT: Units	AUTHORIZED BY CONTRACT: Unit Costs
Drifting	ft.	1485	45	4554.00	138			
Crosscutting	ft.	00	00	2475.00	70			
Raising								
Shafts								
Winzes	ft.	00	00	8457.50	99.5			
Drilling: Core								
D.D. [illegible] Station								
D.D. Auger Station								
Stripping								
[illegible] Drift A								
[illegible] x-cut timber								
[illegible]ls. Assays	ea.	15	5	135.00	44			
Inc. Geologist	da.	00	00	600.00	8			
TOTAL DISTRIBUTED COSTS		1500.00	50	16018.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date Aug 9, 1957 Operator Boss Mines, Inc.

Per C. Hewett Title President

REMARKS:

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

(Instructions on reverse)

(For Government use only)

RECEIVED SEP 6 1957 D.M.E.A.

1/s/ John A. Bowsher
Mining Engr. 8/31/57

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

AUG 12 REC'D

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D M E A
RECEIVED SEP 6 1957

DATE	INITIALS	CODE

Helena, Montana
August 9, 1957

Bureau of Mines
D. M. E. A.
Administration Bldg.
School of Mines
Butte, Montana

Boss Mines, Inc.
Contract No: Amended IDM E 743
Docket No: 3548

Gentlemen:

Through the month of July 1957, we extended the north drift on the 150' level, a distance of 45 feet. There has been a gradual widening of the sulphide ore streak, which is now averaging 12 inches wide. It is also becoming a little less flat but on the whole shows little encouragement.

At a point 80 feet north of B.M. station 737, we intersected an E.W. striking vein, dipping slightly to the north. At the point of intersection, the vein was approximately 14" wide, carrying heavy spar, quartz, and a small amount of zinc sulphides. The ore here was high in silver, 140 ounces with very little lead and zinc. However, after two rounds, approximately 10 feet to the east, the vein has widened out to 20 inches and shows heavy zinc sulphides. The 20" across the back running only 4 oz. Ag, but 1.6% pb. and 35.3% zinc. We intend to put in a few more rounds to the east and possibly raise a few feet to see what it does. This vein seems to be cut off at the footwall of the "north" vein and swings with the north vein.

We have been doing considerable work on the raise from the 150' level, hoping to prove a northern extention of the ore body but it gets very low grade to the north.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt

C. L. Hewitt, Pres.

ij

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

AUG 1 [illegible]

Date JUL 1 2 [illegible]

CONTROL ASSAY

HAND SAMPLE

MARKS

ASSAYED FOR

BOL904

DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	[illegible] Per Cent	[illegible] Per Cent	[illegible]	[illegible]
	0.00	30.0	6.4		5.1				
	0.01	12.4	10.4		14.3				
[illegible] VEIN 22' ABOVE									
100' LEVEL 33' N. OF									
WINZE - 42" WIDE									
[illegible] ORE IN W. SIDE OF									
N. DRIFT - 150 LEVEL -									
[illegible] B.H. STN 737									

[illegible] deducted

[illegible]

GOODALL BROS.

By C. R. Grant

Received SEP [illegible] DATE

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

AUG 12 REC'D

Date JUL 22 1957

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

MARKS:

ASSAYED FOR Boss Mines Inc. Box 904

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6145		0.05	140.0	1.0						
6146		0.005	8.8	6.2						
6145	20" VEIN - E.W. STRIKE, AT INTERSECTION N. 150 DRIFT -80'-N. B.M. STN 757. DIP. 71° N. HEAVY SPAR - SOME ZN SULPHIDES.									
6146	ORE STREAK W. SIDE (FOOT WALL) N. 150 DRIFT 85' N B.M. STN 757 SHOWS 5" HEAVY SULPHIDES WITH 12" SPAR - GOUGE LYING UNDER SULPHIDES.									

Gold not deducted _____

Charges $ 7.00

ASSAYER - LOST ZINC. ONTHESE 2 ASSAYS. CK

GOODALL BROS.

By A. V. Trent

GOODALL BROTHERS

AUG 12 REC'D

ASSAYERS AND METALLURGICAL CHEMISTS

46 South Main Street, Helena, Montana

Date JUL 29 1957

CONTROL ASSAY

HAND SAMPLE

MARKS:

ASSAYED FOR

Bro904

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6147	1/2 B.W. VEIN	0.007	4.0	1.6		35.3				
	CUTTING ACROSS N.									
	DIP PART - 80°									
	W.B.H. STM 75'									
	REFERRED TO AS									
	"SPAR" VEIN									

GOODALL BROS.

By A. E. Grant

RECEIVED
S. & J.
D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

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DATE	INITIALS	CODE
8/1	C	220
"	Com	100
8/1	Alt	500

July 10, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743 (amended)

The project was visited July 6, accompanied by Messrs. R. D. Sample and W. Prinz, geologists, U. S. Geological Survey, and Bruce Hewitt, manager. The previous visit was June 4.

During the interim the NE drift (145L) has been advanced 8 feet for a total of 40 feet from its beginning at BM 737 plus 6 feet. The narrow seam, dip about S. 54° E., is still in the middle of the face. It is wider, about 4-6 inches, and the sulphide mineralization is more pronounced. The hanging wall is not as soft and broken as previously noted.

The Operator continues to advance the 145RN on company time. Mr. Hewitt reports that at the sixth floor the raise was offset to the SW to a point about 15 feet from the winze block, and thence carried upward on the dip of the vein to intersect the 100L. The raise between the sixth floor and the 100L sill was inaccessible. Above the 100L the vein has been stoped for about 20 feet where it has narrowed to about 2 feet in width. Shipments from the raise have been sent to Salt Lake City, Utah.

Status of the contract is given on the attached sheet.

John A. Bowsher

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

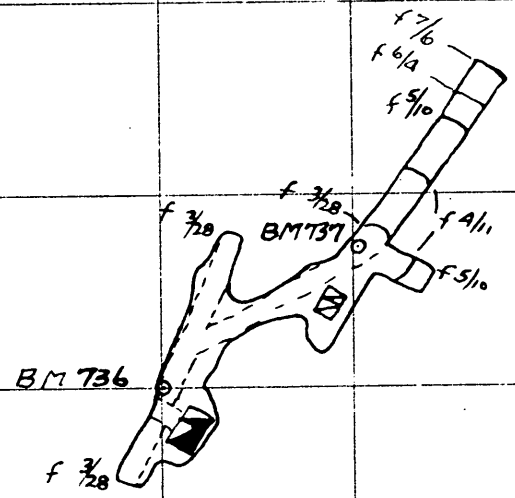
Contract No. Idm-E743

Date of contract: Sept. 18, 1956 Interim inspection: 7/6/57
Termination date: Oct. 18, 1957 " report: 6/4-7/6/57
Contract amount: $57,208.50
Amount spent: 34,804.00 (thru Apr. '57)

	Authorized	Advance	Completed	Vouchered Apr.'57
Stage II				
Cut 3 DD sta., Roch. L	30 ft.	0	0	0
DD from Roch. L	650 ft.	0	0	0
Sink winze from Roch. L	100 ft.	0	99.2 ft.	99.5 ft.
Dft &/or XC from winze	300 ft.	8 ft.	163 ft.	134 ft.
Timbering	120 ft.	0	0	0
Assaying	100 samples		27	27
Engr.-Geol.	8 days		6	6

Stage III
Not started

BM 736-winze	S E-8'	3/28/57
" -face	N 32°E-35'	
" - "	S 20°W-22'	
" - "	N 55°E-58'	
" -BM737	N 56°E-52'	4/11/57
BM-737-face	N 47°E-20'	
" - "	S 26°W-23'	
" - "	S 65°E-12'	
" - "	N 39°E-33'	5/10/57
" - "	S 62°E-16'	
" - "	N 39°E-38-6/4	
" - "	N 39°E-46-7/6	



ROCHESTER ADIT

Boss Mines Inc.

Docket No DMEA-3548 (lead-zinc)

Scale 1" = 40'

ALBANY N.Y. NO. 1004 N.Y. REGISTERED PAT. OFF.

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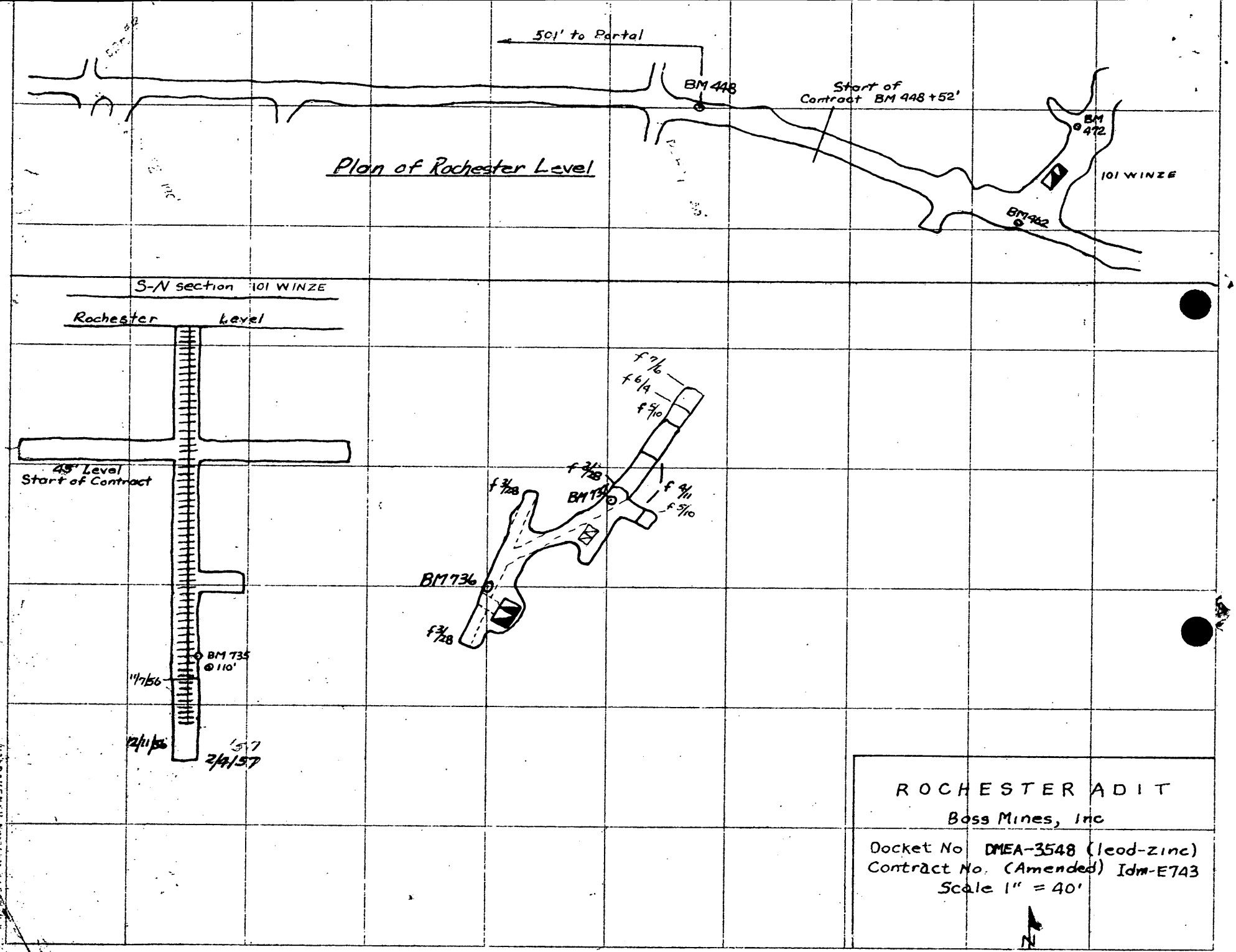
DATE	INITIALS	CODE



ROCHESTER ADIT

Boss Mines, Inc

Docket No DMEA-3548 (lead-zinc)
Contract No. (Amended) Idm-E743
Scale 1" = 40'

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DMEA
1 1957

DATE	RECEIVED	CODE

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

JUL 19 REC'D

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [illegible], 1957 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:				8/14/57	8/12/57	
Drilling						
Bulldozing						
Crosscutting	[illegible]	[illegible]	[illegible]	165.00	2145.00	2310.00
Drifting	[illegible]	[illegible]	[illegible]	792.00	2277.00	3069.00
[illegible]	[illegible]	[illegible]	[illegible]		8457.50	8457.50
(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	[illegible]	[illegible]	[illegible]	36.00	81.00	117.00
Payroll Taxes						
Liability Insurance						
[illegible]	[illegible]	[illegible]	[illegible]	100.00	300.00	400.00
(8) Contingencies (specify):						
Stage I					21543.50	21543.50
TOTALS	[illegible]	[illegible]	[illegible]	1093.00	34704.00	35897.00

RECEIVED AUG 5 1957 D.M.E.A.

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:

$ 546.50

Signature [illegible]
(Authorized Certifying Officer)

Date 8/1/57 Vou. No. 2010

(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 742 in accordance with the terms of the contract.

Signature /s/ George T. Kempsky Title Mining Engr. Date July 19, 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date July 24, 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

JUL 19 REC'D

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

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

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
Crosscutting	[illegible]	[illegible]	0	[illegible]	[illegible]			
Raising								
Shafts								
Winzes	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails	[illegible]	[illegible]	[illegible]	[illegible]	39			
[illegible]	[illegible]	[illegible]	0	[illegible]	0			
TOTAL DISTRIBUTED COSTS		[illegible]	[illegible]	[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

RECEIVED AUG 5 1957 DMEA

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

Date [illegible] Operator [illegible]

Per C. Hewitt Title [illegible]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

/s/ George T. Klempaski, Mining Engr., July 19, 1957

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

JUL 19 1957

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D M E A
RECEIVED AUG 5 1957

DATE	INITIALS	CODE

Helena, Montana
July 17, 1957

Bureau of Mines
D. M. E. A.
Administration Bldg.
School of Mines
Butte, Montana

Re: Zeus Mines, Inc.
345 N. Rodney, Helena, Mont.
Contract No: Amended IDA-7-743
Docket No: M. A 3348

Gentlemen:

Through the months of May and June, the north drift on the 150 foot level was extended 34 feet and the crosscut east of Station 787 was extended 5 feet. There was no change in the conditions in the crosscut. The north drift has shown improvement with a band of sulphides about 6.5 inches cutting across the face, dipping 57 degrees easterly.

The remainder of the time was used in the raise which is being run up on the foot wall of the faulted vein structure. At a point 35 feet above the sill, the ore widened out to about 4 feet but is not as high in values as where it crosscut on the 150 foot level. This raise will be run through to the 50 foot level.

It is now shown that the faulting has shattered the ore, in this section of the vein below the 150 foot level and doubtful that it will be picked up at any point below. However, the vein in the north drift does not seem to be so badly shattered and we hope to find another ore shoot to the north.

No work has been done to pick up the vein south of the shaft.

Yours very truly,
ZEUS MINES, INC.

C. L. Hewitt

C. L. Hewitt, Pres.

ll

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

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DMEA
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DATE	INITIALS	CODE
6/17	C	220
25	Cons	100
6/26	Jwa	500

June 7, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead - zinc), Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743 (amended)

The project was visited June 4, accompanied by Bruce Hewitt, Operator. The previous visit was May 10.

During the interim the NE drift (145L) has been advanced 5 feet for a total of 32 feet from its beginning at BM 737 plus 6 feet. The narrow seam, dip S. 54° E., is still in the face and the hanging wall is broken and altered, indicative of a faulted area. The Operator has been informed to continue drifting through the altered area.

On company time, the Operator has advanced the 145RN to a height of 41 feet above the sill cap of the 3-compartment raise. Timber has been set for 5 floors and the present back is 11 feet above the last raise cap. The raise has been carried on the foot wall, dip S. 55° E. At the sixth floor, the Operator has opened the hanging wall for about 3 feet and opened a 6-foot wide ore zone of excellent sulphide mineralization, predominantly sphalerite. Sublevel drifting on this zone has been advanced SW about 12 feet from the SW raise chute. The zone apparently does not extend NE on the same strike beyond the NE chute raise; it may be faulted. The NE face of the sublevel exhibits the same rock alteration and crushing that is noted in the NE drift face on the sill below.

Present observation indicates that the ore has a south rake, extending from the 50 level stope, and 100 level N drift (15 feet).

After drifting NE on the 145L, through the altered area to solid ground, it may be advisable to crosscut south from the SW drift face (145L) to pick-up the south rake of the ore and then explore SW on the vein.

The status of the contract is given on the attached sheet.

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

John A. Bowsher

Contract Idm-E743 (amended)

Contract date: September 18, 1956

Termination date: October 18, 1957

Contract amount: $ 57,208.50

Amount spent: 34,804.00

Interim inspection: 6/4/57

Interim report: 5/10 - 6/4/57

	Authorized	Advance	Completed	Vouchered April, '57
Stage I				
Performed under prior contract			Yes	$21,543.50
Stage II				
Cut 3 DD sta., Roch. L	30 ft.	0	0	0
DD from Roch. L	650 ft.	0	0	0
Sink winze from Roch. L	100 ft.	0	99.2 ft.	99.5 ft.
Dft &/or Xc from winze	300 ft.	5 ft.	155 ft.	134 ft.
Timbering	120 ft.	0	0	0
Assaying	100 samples	0	27	27
Engr. - Geol.	8 days	-	6	6
Stage III				
Not started				

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

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DATE	INITIALS	CODE
6/26	Jua	500

May 27, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead - zinc), Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743 (amended)

The project was visited May 10 accompanied by Mr. C. L. Hewitt, Operator. The previous visit was April 11.

During the interim the contract work done was on the 145 level. The XCSE (see map) had been advanced 4 feet for a total of 13 feet from the drift east wall; the face is 16 feet from measure point BM 737 at minus 3 feet. The DNE (see map) had been advanced 13 feet for a total of 27 feet from measure point BM 737 at minus 6 feet.

In the XCSE all the muck had not been removed, but it was evident that the face and walls exhibit little if any mineralization. The Operator was informed to advance the face at least one more round.

The DNE had been advanced on the 4-inch (width) vein (dip S. 54° E.) without any decrease in mineralization. The hanging wall of the vein, in the face, is much softer and crushed, indicating the proximity of a faulted area. The Operator reported a sample across the hanging wall (width 33 inches normal to vein) assayed Au, trace; Ag, 2 ounces; Pb, 0.3 percent; and Zn, nil. The Operator was informed to continue drifting to cut through the apparent faulted area ahead.

The Operator, on company time, has advanced a raise (location S. 26° W. about 15 feet from BM 737) 4 floors, or 33 feet from sill track to back. The foot wall is strongly defined and in the 3rd raise set it dips S. 55° E.; the first and second floors dip about S. 60° E. In the back, two veins, 4-8 inch width each, are respectively noted on hanging and foot walls; the sulphide mineralization is good. The Operator will continue to advance the raise about 60 feet to the 100 level where apparently the same vein is exposed in the face of the 15-foot drift.

The status of the contract is given on the attached sheet.

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

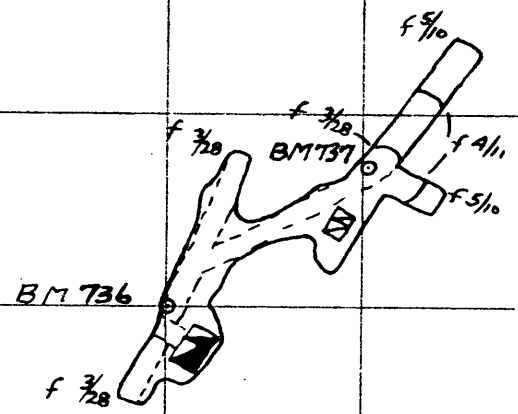
John A. Bowsher

Contract Idm-E743

Contract date: September 18, 1956 Interim inspection: 5/10/57
Termination date: October 18, 1957 Interim report: 4/11 - 5/10/57
Contract amount: $ 57,208.50
Amount spent: 34,034.00 (thru March)

	Authorized	Advance	Completed	Vouchered April, '57
Stage I				
Performed under prior contract			Yes	$21,543.50
Stage II				
Cut 3 DD sta., Roch. L.	30 ft.	0	0	0
DD from Roch. L.	650 ft.	0	0	0
Sink winze from Roch. L.	100 ft.	0	99.2 ft.	99.5 ft.
Dft &/or XC from winze	300 ft.	17 ft.	150 ft.	134 ft.
Timbering	120 ft.	0	0	0
Assaying	100 samples	3	27	27
Engr. - Geol.	8 days		6	6
Stage III				
Not started				

BM 736-winze	S E-8'	3/28/57
" -face	N 32°E-35'	
" - "	S 20°W-22'	
" - "	N 55°E-58'	
" -BM737	N 56°E-52'	4/11/57
BM-737-face	N 47°E-20'	
" - "	S 26°W-23'	
" - "	S 65°E-12'	
" - "	N 39°E-33'	5/10/57
" - "	S 62°E-16'	



ROCHESTER ADIT

Boss Mines Inc.

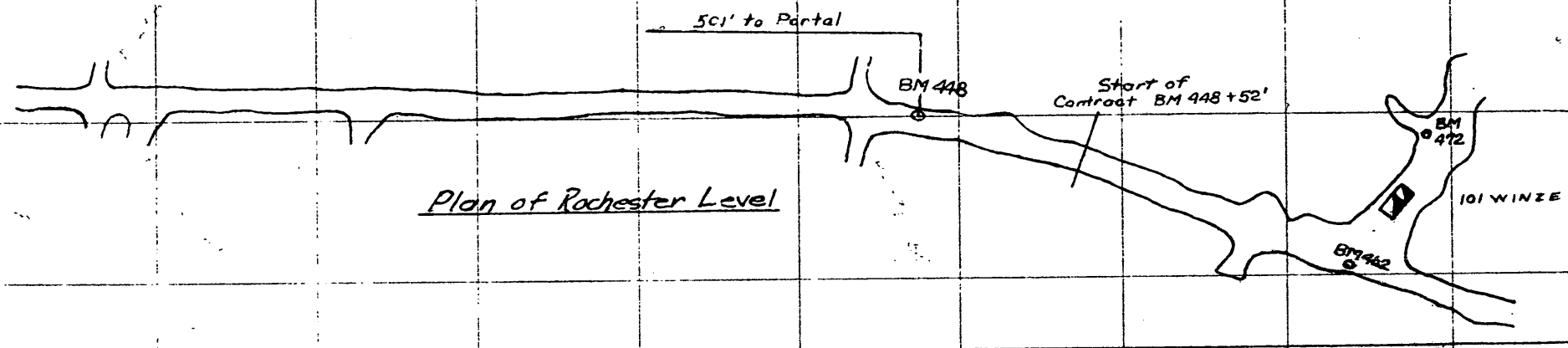
Docket No. DMEA-3548 (lead-zinc)

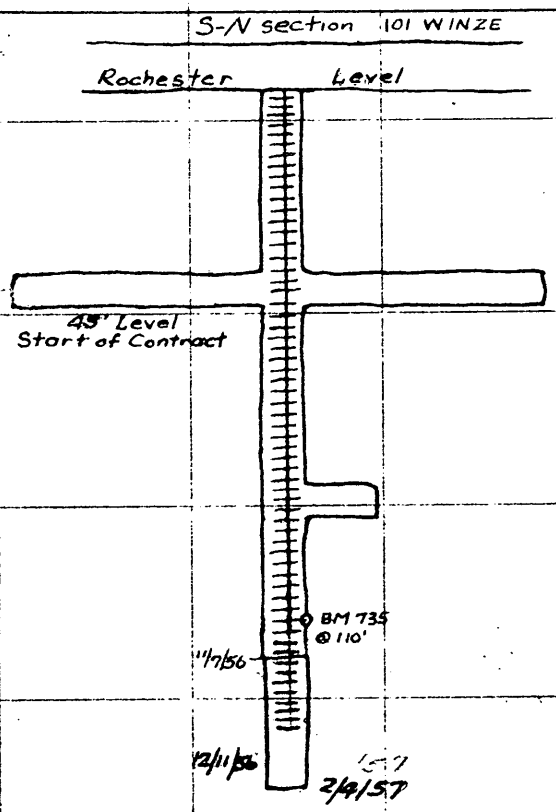
Scale 1" = 40'

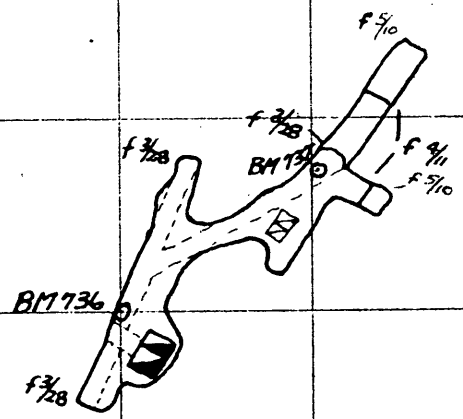
"ALBANENE" NO. 1 JUDIA K&E CO., N.Y. REG. U.S. PAT. OFF.

OFFICIAL FILE COPY.
D M E A
RECEIVED JUN 17 1957

DATE	INITIALS	CODE







ROCHESTER ADIT

Boss Mines, Inc

Docket No DMEA-3548 (lead-zinc)
Contract No. (Amended) Idm-E743
Scale 1" = 40'

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Form MP-R4 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

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

Month of [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:				8/14/57		7/16/57
Drilling						
Bulldozing						
Crosscutting	[illegible]	[illegible]	[illegible]	132.00	2013.00	2145.00
Drifting	[illegible]	[illegible]	[illegible]	429.00	1848.00	2277.00
[illegible]	[illegible]	[illegible]	[illegible]		8457.50	8457.50
(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	[illegible]	[illegible]	[illegible]	9.00	72.00	81.00
Payroll Taxes						
Liability Insurance						
[illegible]	[illegible]	[illegible]	[illegible]	200.00	100.00	300.00
(8) Contingencies (specify):						
Stage I					21543.50	21543.50
TOTALS	[illegible]	[illegible]	[illegible]	770.00	34034.00	34804.00

RECEIVED JUN 24 1957 D.M.E.A.

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

Date [illegible] *Payee Boss Mines Inc.

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:

$ 285.00

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 6/18/57 Vou. No. 1990
(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. E743 in accordance with the terms of the contract.

Signature /s/ John A. Bowcher Title Mining Engr. Date 5/29/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date 6/5/57

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form [illegible]-104A
(April 1952)

Budget Bureau No. 42-R1151.2

MAY 26 REC'D

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

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

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT: Units	AUTHORIZED BY CONTRACT: Unit Costs
Drifting	[illegible]	[illegible] ✓	[illegible]	[illegible] ✓	[illegible]		300 ft. / 300 ft.	Stage II 33.00 / " III 33.00
Crosscutting	[illegible]	[illegible] ✓	[illegible]	[illegible] ✓	[illegible]			
Raising								
Shafts								
Winzes	[illegible]	[illegible]	[illegible]	[illegible].50 ✓	[illegible]		100	85.00
Drilling: Core Diamond	ft.						650 / 500	Stage II 5.50 / " III 5.50
" " Churn [illegible]	Stage II						30	30.00/ft.
" " Auger [illegible]	" III						20	20.00/ft.
Stripping								
Trenching [illegible]	ft.						120 / 80	Stage II 2.50 / " III 2.50
Test Pits [illegible]								
Roads and Trails [illegible]	[illegible]	[illegible] ✓	[illegible]	[illegible] ✓	[illegible] 27		100 / 60	Stage II 3.00 / " III 3.00
[illegible]	[illegible]	[illegible] ✓	[illegible]	[illegible]	[illegible]		8 / 8	Stage II 50.00 / " III 50.00
TOTAL DISTRIBUTED COSTS		[illegible]	[illegible]	[illegible].50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
				21,543.50				
TOTAL COSTS				34804.00				

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 [illegible] Operator [illegible]

Per Ch. Heartt Title [illegible]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

s/ John A. Bowsher
Mining Engr.
5/24/57

RECEIVED JUN 24 [illegible] DMEA

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

Helena, Montana
May 23, 1957

Bureau of Mines
M. M. E. A.
Administration Bldg.
School of Mines
Butte, Montana

Boss Mines, Inc.
545 N. Rodney, Helena, Montana
Contract No: Amended IDX E 743
Docket No: DMEA 3548

Gentlemen:

In the month of April 1957, the drift on 150 foot level was extended northerly to a point 33 feet from B.M. Station 737, an advance of 13 feet. The vein structure is still showing but with very little value. See sample #6128.

The crosscut which runs easterly from B.M. Station 737 to a point 16 feet from B.M. Station 737, making an advance of 4 feet. The face of this crosscut is now quite hard and tight with no vein showing.

The remainder of the month, time was used in a raise which is being run up on the fault (or vein structure) to see how far the ore extends below the 100 foot level. I believe this raise will be of more exploratory value than any other work that we could do as it will show what happened when this fault cut off and sheared the ore into fragments in the drag. The raise will also provide badly needed ventilation when we hole through to the 100 level.

Mr. Irving visited the mine on May 10th and will bring us to date the maps on the 21st or 22nd of this month. I will include a copy of this map with May report.

Yours very truly,

C. L. Hewitt

C. L. Hewitt, Pres.

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DATE | INITIALS | CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

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DATE	INITIALS	CODE
5/7	CAW	100
5/9	Jwa	500

April 19, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743 (Amended)

The project was visited March 28, accompanied by Messrs. D. Pinckney, U. S. Geological Survey, and C. L. Hewitt, Operator, and again April 11, accompanied by C. L. Hewitt. The previous visit was February 4.

The visit March 28 was to examine the crosscut (authorized February 20, Field Team letter to C. L. Hewitt) driven to intersect the 101 vein, projection southeast of the winze on the 144 level. About 50 feet of crosscutting, N. 55° E., intersected two veins striking N. 23° E. The two veins contain 3 to 10 inches of high-grade zinc ore but they appear too weak and too narrow to be identified as the projection of the 101 vein. The Operator was advised to continue crosscutting S. 60°-70° E. for at least 10 feet.

The project was visited again April 11 to examine the crosscutting advance. The Operator had advanced the crosscut S. 65° E. for 9 feet and thence drilled a 30-foot long hole, S. 65° E. in the breast, all without encountering structure or mineralization. The long hole cuttings were panned every two feet. The Operator also drifted N. 47° E. 14 feet on the two veins to where they converted to one of about 4-inch width and minor mineralization.

The Operator, on company time, drifted S. 26° W. 23 feet on the two veins to locate a raise which he will advance on the structure to the 100 level (81 feet below the Rochester adit).

The status of the contract is given on the attached sheet.

John A. Bowsher

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

Contract Idm-E743

Contract date: Sept. 18, 1956 Interim inspection: 3/28 and 4/11/57
Termination date: October 18, 1957 " report: 2/4 - 4/11/57
Contract amount: $57,208.50
Amount spent: 34,034.00 (thru March)

	Authorized	Advance	Completed	Vouchered Mar. '57
Stage II				
Cut 3 DD sta., Roch. L.	30 ft.	0	0	0
DD from Rochester L.	650 ft.	0	0	0
Sink winze from Roch. L.	100 ft.	0	99.2 ft.	99.5 ft.
Dft &/or XC from winze	300 ft.	89 ft.	133.0 ft.	122.0 ft.
Timbering	120 ft.	0	0	0
Assaying	100 samples			24
Engr.-Geol.	8 days			4

Stage III

Not started

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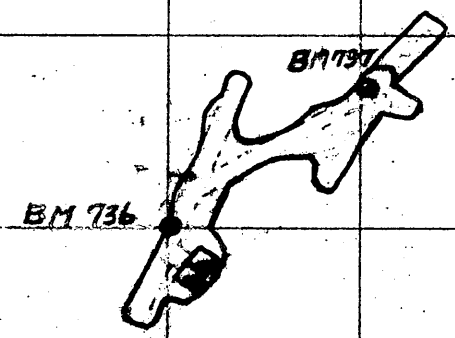
BM 736 - face N 32°E - 35'
" - face S 20°W - 22'
" - face N 35°E - 58'
3/26/57

BM 736 - BM 737 N 56°E - 52'
BM 737 - face N 47°E - 20'
" - face S 26°W - 23'
" - face S 65°E - 12'
2/11/57



ROCHESTER ADIT

Bass Mines, Inc

Docket No DMEA 3548 (lead-zinc)

Scale 1" = 40'

"ALBANENE" No. 1 VOM-K & E CO., N.Y.
REG. U.S. PAT. OFF.

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 6 1957

DATE	INITIALS	CODE

Field Team, Region I

April 23, 1957

Certifying Officer, Region I

Contract No. Idm-8743, Docket No. DMEA 3548, Ross Mines, Inc.
Monthly operating report for February-March

The subject operating report has been received and processed for payment.

The Operator claimed Engr.-Geologist services of 1 day or $50.00. Since the contract states the Operator must employ the Engr.-Geologist for a minimum of two days each month, we have deleted the $50.00 claimed. If the Operator submits a bill showing technical services of 2 days and the month it covers, we will reinstate the item.

Dorothy F. Long

cc: USGS (2)
DMEA (2)
Contract Admin. & Audit Div.
JAB
AD

SAMPLE COPY
DMEA
RECEIVED
DATE
CODE

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

OFFICIAL FILE COPY
DMEA
RECEIVED APR 18 1957

DATE	INITIALS	CODE
4/18	C	220
"	Com	100
4/19	alb	[illegible]

April 2, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: Darrell M. Pinckney, Geologist, U. S. Geological Survey

Subject: Interim Inspection Report, Docket No. DMEA-3548 (Lead-Zinc) Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743.

The winze and 143-foot level were inspected by the writer and John A. Bowsher, Mining Engineer, U. S. Bureau of Mines, on March 28, 1957, accompanied by C. L. Hewitt and Bruce Hewitt. The winze has been sunk as specified in the contract and the Operator is searching for the vein on the 143 level.

Below the level of the Rochester crosscut the dip of the 101 vein changed from vertical to 77° S. on the 89-foot level (see Pinckney's Interim Report of January 11, 1957). However, below this the Operator claimed that the vein again changed dip and was to the northwest of the winze. From the bottom of the winze he drilled short holes to the northwest and southeast and found a vein to the northwest which he thought was the 101 vein. He reported this to the Field Team and received authorization to crosscut to it (see Executive Officer's Memorandum to the Files dated January 23, 1957). This vein strikes N. 24° E. and dips 62°-70° E. It is about parallel in strike to the 101 vein on the Rochester level, 143 feet above; however, it is narrow and weak, and probably is only a subsidiary structure rather than the main strand of the 101 vein.

After the vein northwest of the winze had been explored by a short drift, Mr. Joe Irving, the Operator's consulting geologist, examined the level and recommended that the Operator crosscut southeast. The reason for this was that (1) the vein northwest of the winze was weak, (2) the dip of the 101 vein where exposed in the 89-foot level indicated that the 101 vein should be to the southeast of the winze, and (3) water flowing from drill holes No. 1 and No. 2 carried limonite. (The Operator had drilled these holes after doing some drifting, but he did not know that they had entered mineralized ground until this was pointed out by Irving.) On February 20, 1957, the Operator called D. R. MacLaren, U. S. Geological Survey, and

requested Government participation in crosscutting to the southeast, and participation was agreed to in a letter to Hewitt on the same date.

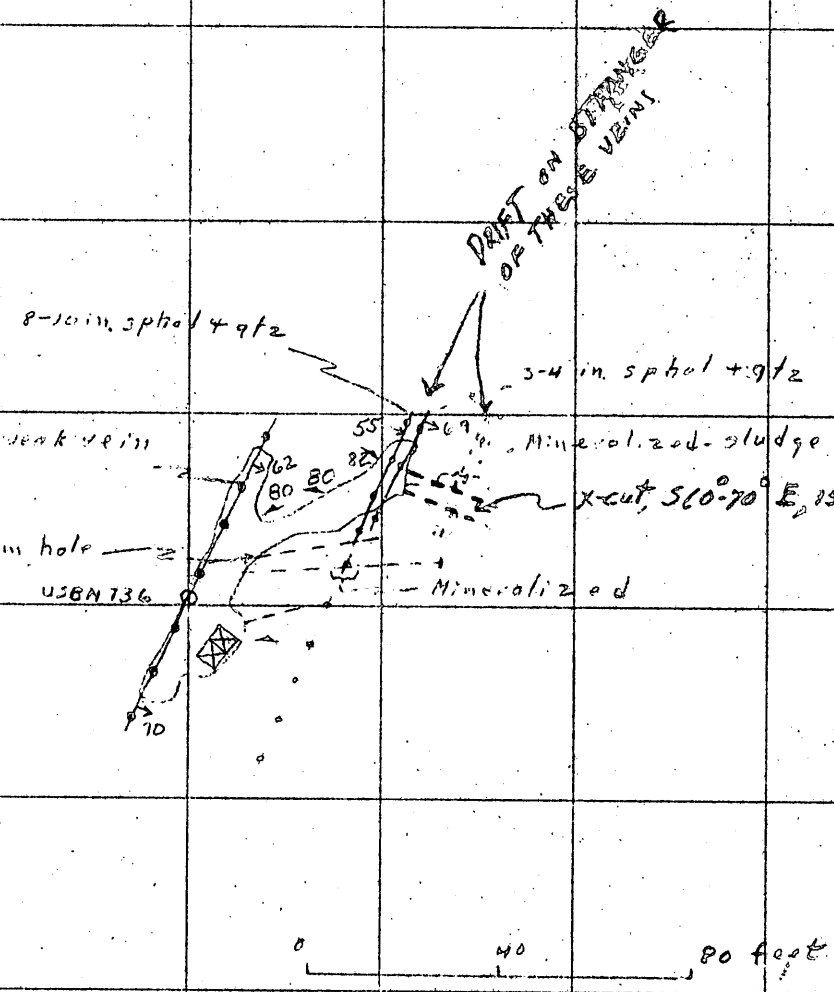
The crosscut that was driven is not normal to the strike of the structure and therefore is a little inefficient, but it did find two veins along which the Operator turned and started to drift. The veins strike N. 23° E., dip 69° and 55° E., and contain from 3 to 10 inches of high-grade zinc ore. These veins also appear too narrow and weak to be the main strand of the 101 vein and cannot be projected up dip to the 101 vein on the levels above. From near the face, the Operator drilled a hole eastward 10 feet and reported the last 4 feet drilled was in mineralized ground; however, the drill rod broke off in the hole and prevented extending the hole. Sludge from the hole contained considerable galena. I told Mr. Hewitt that the Government would participate in crosscutting for at least 10 feet S. 60°-70° E. from the collar of the drill hole or to the far edge of the mineralized ground. I also advised him that from the face of the crosscut he should drill a hole to the southeast as far as he could, and to report the results of all this work immediately to the Field Team in Spokane.

Because of the expense involved, the Operator is reluctant to use the services of his consulting geologist as much as he should. Mr. Irving charges the Operator $75 per day plus additional travel expenses from Butte to Neihart, a distance of about 200 miles. The contract allows $50 per day for a consultant.

Enclosure

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

DMEA 3548



Geology of the 143 level
101 vein
Boss and Atlantus claims
Cascade County, Montana
Boss Mines, Inc.

D.M.P. Nickney, US Geol. Survey, Mar. 1957

"ALBANENE" NO. 100M RAECO., N.Y.
REG. U.S. PAT. OFF.

OFFICIAL FILE COPY
D M E A
RECEIVED APR 18 1957

DATE	INITIALS	CODE

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

Budget Bureau No. 42-R1036.5

APR 1 6 RECD

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Feb. & March, 1957 Docket No. DMEA 3548 Contract No. Amended DM E 743

Operator's Name Bonn Mines, Inc. Minerals Lead - zinc

Address 545 N. Rodney St., Helena, Montana

Contract Amount, $ 57,208.50 Government Participation: 50 % Amount, $ 28,604.25

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				8/14/57	5/6/57 J.A.	
~~Drilling~~ Core						
~~Bulldozing~~ D.D. Stns						
Crosscutting	1914.00	264.00	2178.00	1914.00	99.00	2013.00
Drifting	495.00	1353.00	1848.00	495.00	1353.00	1848.00
Winze sinking	00	8457.50	8457.50		8457.50	8457.50
(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	15.00	57.00	72.00	15.00	57.00	72.00
Payroll Taxes						
Liability Insurance						
Eng-Geologist	50.00	150.00	200.00	-0-	100.00	100.00
(8) Contingencies (specify):						
Stage 1		21543.00			21543.50	21543.50
TOTALS	2474.00	31859.50	12755.50	2424.00	31610.00	34034.00

RECEIVED APR 30 1957 D.M.E.A.

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

Date Apr 16, 1957 *Payee Bonn Mines, Inc.

Per [signature] Title Pres.

*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:

$ 1212.00

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 4/22/57 Vou. No. 1972

(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. E743 in accordance with the terms of the contract.

Signature /s/ John A. Powaler Title Mining Engineer Date 4/18/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Wing D. Agnew Title Acting Exec. Date 4/22/57

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1953)

Budget Bureau No. 42-R1151.2

APR 1 6 REC'D

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Amended

Month of Feb & Mar 195 7 Docket No. DMEA 3549 Contract No. IDM R 743

Operator's Name Boss Mines, Inc. Minerals Lead - zinc

Address 545 N. Rodney St., Helena, Montana

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	ft.	495 ✓	15	1846 ✓	56		300 ft. - Seg. II - 33.00/ft. 200 ft. - " III - 33.00/ft.	
Crosscutting	ft.	1914 ✓	58	2178 2013	66 61			
Raising								
Shafts								
Winzes sinking	ft.	00	00	8437.50	99.5			
Drilling: Core								
D.D. Churn Station	Seg. II						30	30.00/ft.
" Auger "	Seg. III						20	33.00/ft.
Stripping								
Trenching Drift and								
Test Pits Road: cut-timber								
Roads and Trails		15.00	5	72.00	24		100 - Seg. II - 0.00 ea. 60 - " III - 0.00 ea.	
Assay Assays	ea	~~50.00~~	~~1~~	~~666.26~~			8 - Seg. II - 50/day	
Eng-Geologist	da	~~50.00~~	~~1~~	~~200.00~~	~~4~~ 2		8 - " III - 50/day	
TOTAL DISTRIBUTED COSTS		2424.00 ~~2474.00~~	78 ~~79~~	12490.50 ~~12755.50~~				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

REMARKS:

Date April 18, 1957 Operator Boss Mines, Inc.

Per [signature] Title Pres.

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

(Instructions on reverse)

(For Government use only)

/s/ John A. Dowsler, Mining Engineer

RECEIVED APR 30 1957 D.M.E.A.

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

APR 16 1957

Helena, Montana
April 13, 1957

D. M. E. A.
U. S. Bureau of Mines
Administration Building
Montana School of Mines
Butte, Montana

Boss Mines, Inc.
545 N. Rodney, Helena, Montana
Docket No: DMEA 3548
Contract: Amended IDM E 743

Gentlemen:

In March 1957, we extended the drift on the West vein a distance of 15 feet. The structure continues to be strong both north and south but values are low so this work was suspended.

From B. . Station 736, which is in the center of the 8 foot crosscut ~~which was~~ run westerly from our winze, a crosscut was run northeasterly to intersect the vein shown by the 40 foot drill hole which was drilled N.88E. from the "west" vein, 13 feet north of the north end of our winze. This crosscut was extended 50 feet to B... Station 737.

At a point approximately 32 feet from Station 736, a vein was cut, with considerable water and approximately 10 inches of ore on the foot wall, assay of which was high in silver-lead and zinc. See sample #6124.

From the east side of drift at Station B.M. 737 a crosscut was extended easterly 8 feet with no ore showing. A long hole was drilled 31 feet S. 66W. from face of this crosscut. The sludge from each two foot section was carefully panned and no mineral was showing in entire length of hole.

This crosscut will be extended 8 to 10 feet, also the same distance advanced on the north breast of a 16 foot drift which has been run in April from where crosscut starts at B. M. Station 737.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt, Pres.

EXTRA COPY
D M E A
RECEIVED APR 1 1957
DATE | INITIALS | CODE

Boss Mines Inc. P O Box 904 Helena, Montana.

Amended

Contract IDM-E 743

Lead- Zinc.

D M E A

U.S.Bureau Of Mines

Administration Building

Montana School of Mines

Butte, Montana.

EXTRA COPY
D M E A
RECEIVED APR 15 1957

DATE	INITIALS	CODE
4/15	FJ	110
4/15	JWA	500

Gentlemen;-

We did not submit a monthly operating report or voucher, for the month of February, 1957 as there was practically no work done on the contract. The time was taken up in making the sump and landing space for our skip, timbering station and sump, installing guides and skip, making a permanent installation on our pumping system and installing ventillation equipment. We have everything in very nice operating condition now, and have the mucking machine on the new 150 ft level so better progress can be made.

I will take the liberty of including the Feb assays and our geologist's account with the March report.

Yours very truly,

C.L.Hewitt, Pres.

Boss Mines Inc.

DMEA Field Team, Region I, NW March 14, 1957

DMEA Certifying Officer, Region I

Contract No. Idm-1743, Docket No. DMEA 4540, Boss Mines, Inc.
Monthly operating report for January

The subject operating report has been received and processed for payment.

The operator claimed 8 feet of crosscutting which did not agree with the engineer's report. The engineer showed 3 feet, a difference of 5 feet, which has been deleted. In the event the footage claimed should prove to be correct, the amount deleted may be reclaimed at a later date.

Dorothy Long

cc: Operator
DMEA (2)
USGS (2)
Contract Admin. (2)
GTK
AD

EXTRA COPY
DMEA
RECEIVED MAR 14 1957

DATE	INITIALS	CODE
3/14/57	FEJ	110
3/15	JWA	500

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

1201 N. Division St.
Spokane 2, Washington

February 5, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 11 1957

DATE	INITIALS	CODE
3/12	C	220
13	[illegible]	100

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: George T. Krempasky, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743 (Amended)

The project was visited February 4, accompanied by Mr. B. Hewitt. The previous visit was on January 3.

Advance during the interim consisted of deepening the vertical winze, crosscutting to intersect the vein, and drifting on the vein.

The winze has been advanced to the 144-foot level which is 34 feet below BM 735 (110 feet from track elevation Rochester adit level). The 2-compartment winze (8.2 feet by 4.0 feet, inside timber, at collar) is crib timbered to the 132-foot depth below the Rochester level.

The Operator crosscut 8 feet northwesterly from the 144 level to intersect the vein, then he widened the crosscut to make room for a station. The station is 8 feet wide by 20 feet long, 10 feet northeast and 10 feet southwest of projected center line (E-W) of the winze. The Operator then drifted on the vein N. 22° E. for 10 feet and S. 27° W. for 11 feet.

The Operator stated that the sump would be dug when drifting has advanced far enough not to interfere with sinking. Timbering of the winze and station site (if necessary) will follow completion of sinking operations.

The status of the contract is given on the attached sheet.

George T. Krempasky

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

Contract No. Idm-E743

Contract date: September 18, 1956 (as amended)
Contract termination: 13 months or October 18, 1957
Amount of contract: $57,208.50
Amount spent: 29,854.50 (thru Dec. 1956)

	Authorized	Advance	Completed	Vouchered Jan. 1957
Stage I - completed				
" II				
Cut 3 DD sta., Roch. L	30 ft.			
DD from Rochester L	650 ft.			
Sink winze from Roch. L	100 ft.	1.2 ft.	99.2 ft.	99.5 ft.
Dft and/or XC from winze	300 ft.	44 "	44 "	49 "
Timbering	120 ft.			
Assaying	100 samples			18
Engr-Geologist	8 days		2 days	3 days

Stage III - not started

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

Budget Bureau No. 42-R1036.5

FEB 21 1957

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

Amended

Month of January, 1957 Docket No. DMEA 3548 Contract No. IDM-R 743
Operator's Name Boro Mines, Inc. Minerals Lead - zinc
Address 545 N. Rodney, Helena, Montana
Contract Amount, $ 57,208.50 Government Participation: 50 % Amount, $ 28,604.25

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				8/14/57 P.K.		3/21/57 J.W.A.
Drilling core						
Bulldozing M.D. Stng						
Crosscutting	264	0	264.00	99.00	-0-	99.00
Drifting	1353	0	1353.00	1353.00	-0-	1353.00
Winze sinking	297.50	8160	8457.50	297.50	8160.00	8457.50
(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	6.00	48.00	54.00	6.00	51.00	57.00
Payroll Taxes						
Liability Insurance						
Eng. Geologist	0.0	150.00	150.00		100.00	100.00
(8) Contingencies (specify):						
Stage 1		21543.00			21543.50	21543.50
TOTALS		29901.00	10278.50	1755.50	29854.50	31610.00

RECEIVED MAR 14 1957 D.M.E.A.

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

Date Feb. 19-1957 *Payee Boro Mines, Inc.

Per C. Heuritt Title Pres.

*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:

$ 877.75

Signature Dorothy T. Long
(Authorized Certifying Officer)

Date 3/11/57 Vou. No. 1949

(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. E743 in accordance with the terms of the contract.

Signature /s/ George T. Trempesky Title Mining Engineer Date 7/25/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Executive Officer Date 8/4/57

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 195 7 Docket No. DMEA 3548 Contract No. Amended DM1-E 743

Operator's Name Doss Mines, Inc. Minerals Lead - zinc

Address 545 N. Rodney, Helena, Montana

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	ft	1353	41	1353	41			
Crosscutting	ft	264	8	264 99.00	38		300	33.00
Raising								
Shafts								
Winzes sinking	ft	297.50	3.5	8457.50	99.5		100	85.00
Drilling: Core	ft						1150	5.50
~~Churn~~ D.D. Stns							20	33.00
~~Auger~~ " "							30	30.00
Stripping								
~~Trenching~~ Drift & x-cut timber	ft						200	7.50
Test Pits				57.00				
~~Roads and Trails~~ Assays	ea	6.00	2	~~54.00~~	19		160	3.00
Eng. Geologist	da	00	0	150.00	3	150	16	50.00
Total Distributed Costs		1920.50	54½	10278.50				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		1920.50		10278.50				

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

Date Feb. 19, 1957 Operator Doss Mines, Inc.

Per C. Heinitt Title Pres.

Remarks:

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

(Instructions on reverse)

(For Government use only)

/s/ George T. Kempasky, Mining Engr.

RECEIVED MAR 14 1957 D.M.E.A.

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

FEB 2 1957

Helena, Montana
February 19, 1957

D. M. E. A.
U. S. Bureau of Mines
Administration Building
Montana School of Mines
Butte, Montana

Amended Contract IDM-E 743
Boss Mines, Inc.
545 N. Rodney, Helena, Montana
Lead - Zinc

Gentlemen:

In the month of January 1957, we sunk the winze an additional 3.5 feet making a total of 99.5 below the 45 foot level. From this point we ran a crosscut westerly a distance of 8 feet. Several long drill holes from this level indicated presence of a vein about 3 feet beyond the end of the crosscut. This vein was in normal position, had the dip of our vein continued to dip westerly as it did above our 100 foot level. With this information we drifted north 20 feet and 21 feet south, in January.

This work was approved by Mr. Irving after he had been informed that we had cut a vein and a large flow of water. The vein got stronger as we drifted north but had only seams of ore 2 to 6 inches width and this ore did not have the usual ratio of silver and zinc to lead content, although it is a good strong structure. After going 35 feet to the north, we put a raise round in which shows the dip even more easterly from 68° to 76°. The vein also shows approximately 15° more westerly strike than our main vein. With this information on hand and with the approval of Mr. Irving who visited the mine February 12th, we halted work on this vein and run two drill holes 40 feet easterly and picked up approximately 6 feet of vein matter with quite heavy sulphide showing 18 feet southerly from present drift, indicating that vein is dipping easterly even more than shown on 100 foot level where we thought that the easterly dip was local and that vein would resume westerly dip. After consulting the Butte office we were advised to consult with Mr. Weissenborn, requesting permission to crosscut southerly approximately 25 feet to intersect what is obviously our main vein and then drift on it.

In the interim we are extending our winze, on our own, to gain 8 feet for a sump and landing station for our skip which will be put to use as soon as sump is completed and guides installed. This will greatly expedite the work as it is too deep now to use the sinking bucket for hoisting rock from crosscutting and drifting.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt

C.L. Hewitt, Pres.

OFFICIAL FILE COPY
D M E A
RECEIVED MAR 14 1957

DATE	INITIALS	CODE

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

OFFICIAL FILE COPY DMEA RECEIVED FEB 7 1957		
DATE	INITIALS	CODE
2/8	CBM	100
2/11	C	220

January 11, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: Darrell M. Pinckney, Geologist, U. S. Geological Survey

Subject: Interim Report, Docket No. DMEA-3548 (Lead-Zinc)
Boss Mines, Inc., Boss & Atlantus Claims
Cascade County, Montana, Contract No. Idm-E743

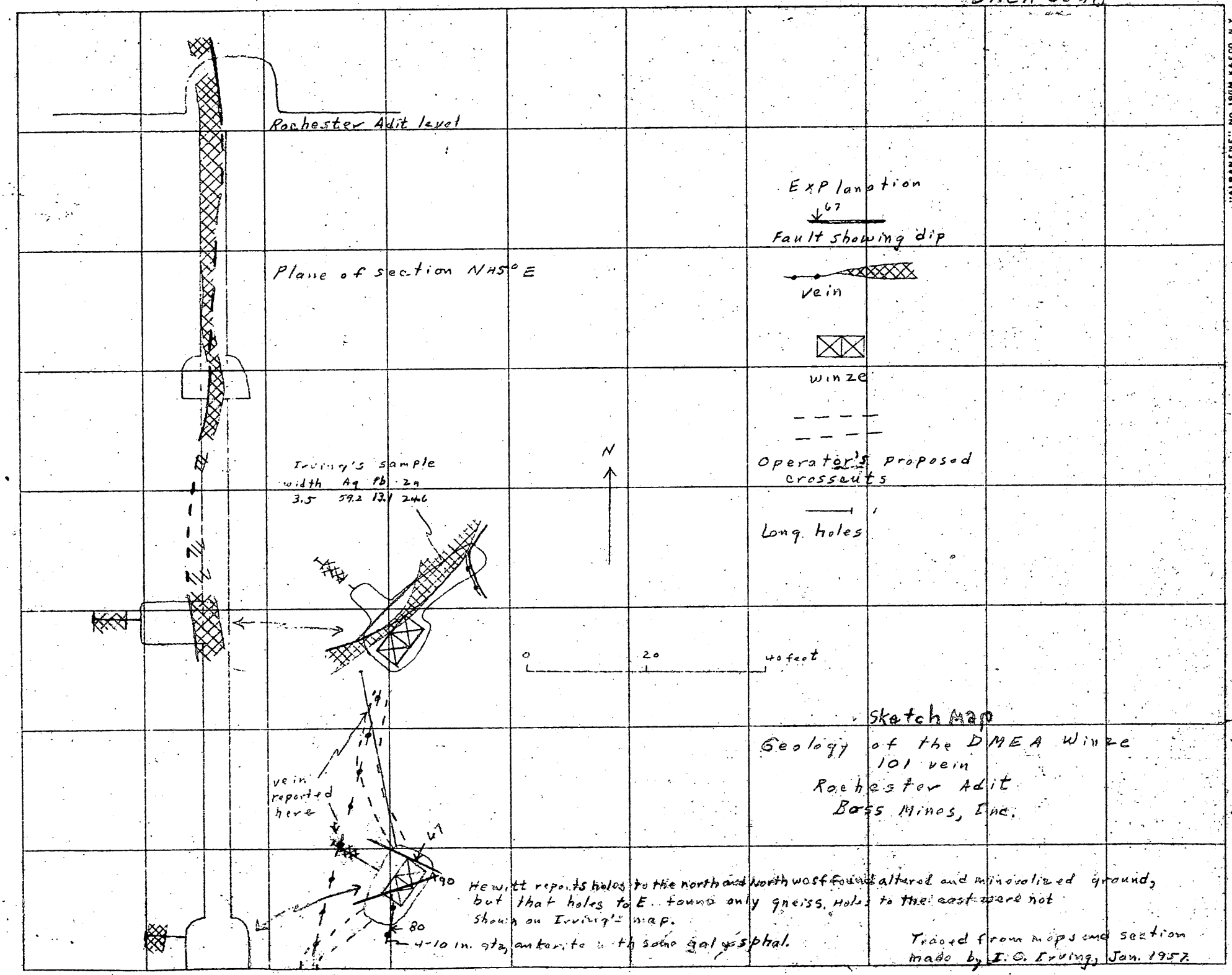
I talked to Mr. I. G. Irving, mining engineer and geologist for Boss Mines, Inc., in Butte, Montana, January 8, 1957, about the winze work at the Boss Mines. Irving mapped the 101 vein, the winze, and the sublevel workings connected to the winze. According to Irving's map (a copy of which is attached), the winze is vertical and does not follow the vein. At a depth of about 85 feet below the sill of the Rochester adit only part of the vein is shown as being cut by the winze and the Operator drove a short crosscut about 5 feet to the northwest and a drift about 15 feet to the northeast. The drift is along the vein, but the crosscut was in gneiss. A long hole to the northwest from the crosscut drilled through vein from $2\frac{1}{2}$ to 7 feet from the face of the crosscut. Apparently, the vein contains a horse of wall rock about 10 feet thick. According to Irving, the Operator drilled long holes to the northwest and to the southeast from the bottom of the winze and found vein material to the northwest but only unaltered gneiss to the southeast.

According to Irving, the Operator wishes to cut a station at the 143 foot level and crosscut to the vein in the manner shown on the attached map. The reason given for not crosscutting directly from the winze to the vein is that the intervening ground is altered and such a crosscut may weaken the ground and endanger the winze station. I discussed this with Mr. S. W. Zoldok, mining engineer, Bureau of Mines, and he agrees that such an approach to the vein seems reasonable.

Enclosure

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

DMEA 354B



Sketch Map
Geology of the DMEA Winze
101 vein
Rochester Adit
Bass Mines, Inc.

"ALBANENE" NO. 180M K&E CO., N.Y. REG. U.S. PAT. OFF.

RECEIVED
18 7 1957
D.M.E.A.

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

JAN 21 1957

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Amended

Month of December, 1956 Docket No. DMEA 3948 Contract No. [illegible]-R 749

Operator's Name Ross Mines, Inc. Minerals Lead - zinc

Address 245 North Rodney, Helena, Montana

Contract Amount, $ 57,208.50 Government Participation: 50 % Amount, $ 28,604.25

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				8/14/57 WPK		2/19/57 J.W.A.
Drilling core						
Bulldozing D.S. stations						
Crosscutting	0.0					
Drifting	0.0					
Dump sinking	340.00	7820.00	8160.00	240.00	7820.00	8160.00
(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	3.00	45.00	48.00	6.00	45.00	51.00
Payroll Taxes						
Liability Insurance						
Rec - Contractor	50.00	100.00	150.00	100.00	-0-	100.00
(8) Contingencies (specify):						
Page 1		21543.00			21543.50	21543.50
TOTALS	393.00	29508.00	29858.00	446.00	29408.50	29854.50

RECEIVED FEB 15 1957 D.M.E.A.

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

Date Jan. 30, 1957 *Payee Ross Mines, Inc.

Per C. Hewitt Title Pres.

*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:

$ 223.00

Signature M. P. (Authorized Certifying Officer)

Date 2-1-57 Vou. No. 1934

(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-743 in accordance with the terms of the contract.

Signature George T. Kempsky Title Mining Engr. Date 1/21/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S/ A. E. Weissenborn Title Executive Officer Date 1/28/57

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

JAN 21 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Dec. 195 6 Docket No. DMEA 3548 Contract No. Amended [illegible]
Operator's Name Dear Mines, Inc. Minerals Lead - zinc
Address 525 North Rodney, Helena, Montana

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	ft.	22.00	22.00				300	22.00
Raising								
Shafts								
Winzes stoping	ft.	240.00	6	8360.00	96		100	25.00
Drilling: Core	ft.						1150	5.50
Churn D. Hatton	ft.						20	22.00
Auger							20	22.00
Stripping								
Trenching Left vent Minor ft							200	7.50
Test Pits								
Roads and Trails Assays	each	3.00	1	42.00	14	40	100	3.00
Ore - Geologist	da	50.00	1	150.00	3	150	16	50.00
TOTAL DISTRIBUTED COSTS		322.00	6	8552.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc. Stage 1								
TOTAL COSTS		322.00	6	8552.00				

RECEIVED JAN 15 1957 D.M.E.A.

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

REMARKS:

Date Jan. 10, 1957 Operator Dear Mines, Inc.

Per C. Heuritt Title Pres.

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

(Instructions on reverse)

(For Government use only)

George T. Kempsky, Mining Engineer, 1/21/57

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

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DATE | INITIALS | CODE

January 19, 1957

D. M. E. A.
U. S. Bureau of Mines
Administration Building
Montana School of Mines
Butte, Montana

Boss Mines, Inc.
Amended Contract IDM-F 743
Lead - Zinc

Gentlemen:

Our work in December, 1956, was confined to some retimbering with other work on adit level and to the winze. We only completed four feet of sinking in the month.

I am enclosing a statement from Mr. Irving, our Engineer-Geologist which covers his work in November and December. There was no allowance for his services in November, so I assume this will be taken care of in the December voucher.

A copy of Mr. Irving's composite geologic plan map is also enclosed showing two ten foot drill holes which we run out. We now have a set of jointed steel that will allow us to run forty foot holes. More drilling was carried on in January which will be shown on the map next month. The sample obtained from sludge was very light as there was such a heavy flow of water when vein was cut. Our employees took their annual vacation in December, which retarded our progress. Our winze at the end of December was 96 feet below the "45" foot level.

We have had pump troubles this past week which made it necessary for me to be at the mine, causing this delay in getting the report in to you.

Yours very truly,

C. L. Hewitt, Pres.
BOSS MINES, INC.

JOHN S. ROACH

Box 1800

RECEIVED
FEB 16 1957
D.M.E.A.

LEWIS & WALKER

ASSAYERS AND CHEMISTS

SHIPPERS' REPRESENTATIVES

108 North Wyoming Street
BUTTE, MONTANA

Phone 2-8131

Date DEC 21, 1956

Mr. J. G. Irvine

Your Sample Assayed as Follows:

	OZS. PER TON		OZS. PER TON		VALUE PER TON AT $35 PER OZ.		%		%		%		%		%		%		%	
	SILVER		GOLD		GOLD $	CTS.	COPPER		LEAD		ZINC		SILICA		IRON		MANGANESE			
300	50	00							0.20		20	00								

Charges $_____

Respectfully Submitted

Lewis & Walker

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS
46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

Date [illegible]

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE [illegible]

ASSAYED FOR [illegible] | MARKS: [illegible]

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				
	[illegible]									
	[illegible]									
	[illegible]									

Gold not deducted: _____

Charges $ [illegible]

GOODALL BROS.

By [illegible]

2M—11-56—3470

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

1201 N. Division St.
Spokane 2, Washington
January 7, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 7 1957

DATE	INITIALS	CODE

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: George T. Krempasky, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743 (Amended)

The project was visited on January 3, accompanied by Mr. B. Hewitt. The previous visit was on December 11.

During this visit the winze was measured from BM 735, 110 feet from the Rochester track level, to the bottom, atop a broken round, a distance of 31 feet. The total advance since the last inspection amounted to 1 foot plus approximately 2.0 feet for the broken round. The winze is of two compartments and is timbered to 10 feet from the bottom. The present bottom of the winze, including 2.0 feet for the broken round, is 143 feet.

The Operator started to sill out on the 143-ft. level. It was brought to the attention of Mr. B. Hewitt that the contract states that drifting is to commence at the 145-foot level, upon approval by the DMEA Field Team. A telephone call was made to Mr. C. Hewitt on January 5, reminding him that drifting is to commence on the 145-foot level.

The winze makes water and a sump will be required. Mr. Hewitt, in a conversation with Mr. Bowsher, Bureau of Mines Engineer, stated that a sump would be made to accommodate this flow of water.

The operation was halted due to a power failure and for vacation time during the month of December; the advance represents but a few days of work.

Status of the contract is given on the attached sheet.

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

George T. Krempasky

Contract No. Idm-E743

Date of contract: September 18, 1956 Interim inspection: 1/3/57
Termination date: October 18, 1957 Interim report: 12/11/56-1/3/57
Contract amount: $57,208.50
Amount spent: 29,408.50 (thru Nov. 1956)

	Authorized	Advance	Completed	Vouchered
Stage II				
Cut 3 DD sta., Rochester L.	30 ft.			
DD from Rochester L.	650 ft.			
Sink winze from R. L.	100 ft.	3*	98 ft.	92 ft.
Dft &/or XC from winze	300 ft.			
Timbering	120 ft.			
Assaying	100 samples			15
Engr.-geol.	8 days			2
Stage III				
Not started				

*Including 2 feet advance for broken round in winze.

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

1201 N. Division St.
Spokane 2, Washington
December 14, 1956

RECEIVED DEC 31 1956 D.M.E.A.

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743 (Amended)

The project was visited December 11. The previous visit was on November 7.

The winze was inaccessible due to water rising caused by electric power failure beginning December 10 at 2:20 p.m. and continuing for 21 hours. The progress in the winze during the interim was discussed with Mr. Bruce Hewitt.

During the interim Mr. Hewitt reported the winze was advanced 22 feet to a total depth of 140 feet from the Rochester level. The present bottom of the winze is 30 feet below BM 735. The winze is timbered (2 compartment) to a depth of 130 feet, 10 feet from the bottom.

Specifications of the contract were discussed with Mr. C. L. Hewitt in Helena, Montana. Since the contract does not provide for a sump, Mr. Hewitt stated he would advance the depth of the winze an additional 6 feet (company time) to 151 feet below the Rochester level and provide for the necessary sump. He was informed that the contract would approve participation to a depth of only 145 feet.

Mr. Hewitt also commented that his cost for assaying (lead, zinc, silver) was $3.50 per sample (authorized $3.00). I visited Goodall Bros., assayers in Helena where Mr. Hewitt sends his samples, and confirmed his statement. A new schedule of prices, effective January 1, 1957, lists cost of lead assay @ $1.50, zinc @ $1.50, and silver @ $2.00 per each sample.

The Operator reported that the project would be temporarily suspended for the Christmas holiday period, December 22 - January 2.

Status of the contract is given on the attached sheet.

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

John A. Bowsher

Contract No. Idm-E743 (Amended)

Date of contract: September 18, 1956 Interim inspection: 12/11/56
Termination date: October 18, 1957 " report: 11/7 - 12/11
Amount of contract: $57,208.50
Amount spent: 27,790.50 (as of 11/1/56)

	Authorized	Advance	Completed	Vouchered 11/13/56
Stage II				
Cut 3 DD sta. Roch. L.	30 ft.			
DD from Rochester L.	650 ft.			
Sink winze from R.L.	100 ft.	22 ft.	95 ft.	73 ft.
Dft &/or XC from winze	300 ft.			
Timbering	120 ft.			
Assaying	100 samples		14	14
Engr.-Geol.	8 days			

Stage III - not started

1201 N. Division St.
Spokane 2, Washington
December 20, 1956

Mr. C. L. Hewitt, President
Boss Mines, Inc.
545 N. Rodney Street
Helena, Montana

Re: Docket No. DMEA-3548 (lead-zinc)
Boss Mines, Inc.
Cascade County, Montana
Contract No. Idm-E743 (Amended)

Dear Mr. Hewitt:

Reference is made to your monthly operating report covering the month of November 1956.

In regard to your assaying, each sample is to be assayed for lead, zinc and silver. These three determinations constitute a unit and if all three determinations have not been made, then the unit is incomplete and is not reimbursable under the contract. The $3.00 per sample is a fixed unit cost and cannot be increased.

On your November 1956 voucher there is claimed $100.00 for engineering and geological services. Will you please support this item by a certified copy of a bill from the consultant employed and give the dates the services were rendered. In the future when a consultant is employed, you should state in your narrative report the dates of such employment.

By Field Team, Region I, NW District

A. E. Weissenborn, Executive Officer
U. S. Geological Survey

Wing G. Agnew, Member
U. S. Bureau of Mines

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
November 13, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743 (Amended)

The project was visited November 7, accompanied by Mr. C.L. Hewitt, Operator. This inspection is the first under the amended contract which covers Stages II and III. The final inspection covering Stage I was made December 9, 1955.

The amended contract reads that contract work shall be resumed on or before October 29 and it is interpreted to be retroactive to and including the Operator's deepening of the 101 winze from the 45-foot level. This interim report covers the period from June 12, 1956 (beginning of deepening the winze) to November 7.

During the interim the winze has advanced 73 feet from the 45-foot level to a total depth of 118 feet from the Rochester level. The winze is timbered a distance of 112 feet. BM 735 was set at 110 feet from the Rochester track level (track-tie bottom); a nail in the timber lining on the north wall, midway between hanging and footwalls. Rock section at 114-foot depth measured 11 ft.by 7 ft.

The winze is two-compartment and at the collar it measures inside timber 8.2 ft. by 4.0 ft. The manway is equipped with ladders offset about 15-foot intervals for staging. Manway and hoisting compartment are separated by 3-inch wall lining.

Starting at a depth of 110 feet extra timbering behind the regular winze timbers was necessary to support a bad west wall. The winze is vertical and since the vein has dipped westerly the vein is judged to be about 6 feet in the west wall at the 118-foot depth of the winze.

At the 45-foot level of the winze the Operator had previously drifted north 50 feet and south 52 feet. Stoping has been on the north side only at this level and advanced up about 35 feet, leaving a small pillar below the Rochester adit. The stope wings out northerly about 8 feet from the face of the sill drift.

At the 89-foot level the vein rolled westerly and the Operator drifted northerly 15 feet (5 ft. x 7 ft.) to explore the roll for dip and strike data. The face is about half vein and half country rock. Samples along the strike have been taken at the winze where the entire width of the vein is exposed. The Operator requests Government participation for the 15-foot drift north and he was informed that authorization must be given by the Field Team. He will voucher the item.

The Operator has installed a 15 hp slip ring, reversing type electric motor hoist, converting a Union Iron Works air hoist. The unit hoists and lowers on power and is also equipped with a conventional drum brake. When the winze is completed in depth, guides and cross head will be used in the hoisting compartment.

The Operator has installed a Jacuzzi water jet for pumping the winze. The maximum head is 350 feet with 10 hp (at present depth using about 6 hp). The water jet, compared with air pump, is more flexible, cheaper, and quieter in operation.

The 73 feet of advance in the winze has averaged about 3/4-ft. per shift. Using two men for sill and winze, single shift, a complete cycle of work takes 2 to 3 days. An 18-hole round is drilled, covering the winze bottom, and the V-cut on the south wall is drilled 48 inches, the rest of the round bottomed at 30 inches. Electric blasting is used. Drilling equipment consists of jack-leg and Swede steel with chisel bit.

The Operator reported that the present depth of 118 feet (advance 73 feet) was achieved by November 1; minor delays since November 1 have hampered advance.

The status of the contract is:

Contract date: Sept. 18, 1956
Termination date: Oct. 18, 1957
Contract amount: $57,208.50
Amount spent:

Interim inspection: 11/7/56
Interim report: 6/12-11/7/56

	Authorized	Advance	Completed	Vouchered 10/31/56
Stage I			Yes	($21,543.50)
Stage II				
Cut 3 DD sta., Roch. L	30 ft.			
DD from Rochester L	650 ft.			
Sink winze from R.L.	100 ft.	73 ft.	73 ft.	73 ft.
Dft and/or XC from winze	300 ft.			15 ft. *
Timbering	120 ft.			
Assaying	100 samples	14	14	14
Engr.-Geol.	8 days			

*Drift north @ 89-ft. level in winze; must be authorized by Field Team.

	Authorized	Advance	Completed	Vouchered
Stage III			Not started	
Dft and/or XC from winze	200 ft.			
Timbering	80 ft.			
Cut 2 DD sta. 150 L	20 ft.			
DD from winze drift	500 ft.			
Assaying	60 samples			
Engr.-Geol.	8 days			

John A. Bowsher

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

RECEIVED 1956 D.M.E.A.

Form MF-104 (Rev. April 1952)

Budget Bureau No. 42-R1036.5.

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

Month of [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:						12/28/56 J.W.G.
Drilling [illegible]				8/14/57 W.P.K.		
Bulldozing [illegible]						
Crosscutting						
Drifting	[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	1615.00	6205.00	7820.00
(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	[illegible]	[illegible]	[illegible]	3.00	42.00	45.00
Payroll Taxes						
Liability Insurance						
[illegible]	[illegible]	[illegible]	[illegible]	-0-	-0-	-0-
(8) Contingencies (specify):						
[illegible]		[illegible]				
TOTALS	[illegible]	[illegible]	[illegible]	1618.00	27790.50	29408.50

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:

$ 809.00

Signature [illegible]
(Authorized Certifying Officer)

Date 12-20-56 Vou. No. 1910

(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. E743 in accordance with the terms of the contract.

Signature /S/ John A. Bowshu Title Mining Engr Date 12-18-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weissenborn Title Executive Officer Date 12-20-56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

RECEIVED
DEC 26 [illegible]6
D.M.E.A.

Budget Bureau No. 42-R1151.2

DEC 18 REC'D

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

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

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]
Raising								
Shafts								
Winzes	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
Drilling: Core	[illegible]						[illegible]	[illegible]
Churn	[illegible]						[illegible]	[illegible]
Auger							[illegible]	[illegible]
Stripping	[illegible]						[illegible]	[illegible]
Trenching								
Test Pits								
Roads and Trails	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL DISTRIBUTED COSTS		[illegible]	[illegible]					TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
[illegible]				[illegible]				
TOTAL COSTS		[illegible]	[illegible]	[illegible]				

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

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

/s/ John A Bowsher
Mining Engr.

INSTRUCTIONS

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

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

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

GPO 872894

BOSS MINES, INC.
P. O. Box 906
Helena, Montana

RECEIVED
DEC 26 1956
HELENA

December 17, 1956

U. S. B. A.
U. S. Bureau of Mines
Administration Bldg.
Montana School of Mines
Butte, Montana

Re: Amended Contract #IDI-E 743
Boss Mines, Inc., Lead - zinc
545 N. Rodney, Helena, Montana

Gentlemen:

Through the month of November 1956, we worked continuously on the winze project. We encountered some very soft ground where it looked like the vein structure had reversed its dip from west to east and should now be east of the vertical winze instead of on the west side as it was on the 45 and 89 foot levels. However, this will be determined after station is cut on the "150" level, by drilling some long holes.

We will have Mr. I. S. Irving, Eng. Geologist on the job next week and will go over this situation with him as we will be cutting the station and have good exposures for examination. This soft section of rock predominated for approximately 30 feet and part of it required double sets of timbers to hold ground, before our regular winze cribbing could be installed. The rock on west side of winze is a hard, massive pink gneiss so that is where station will be cut rather than on the east side which would require extensive timbering and might even endanger winze cribbing and timbering.

You will notice that I have deleted the $495.00 item covering the 15 feet of drifting at the 89 foot level as it was not allowed in voucher, not being covered in contract. I wish to point out, however, that this was most important exploratory work and I am sure your geologist will attach importance to this work when he examines the project. It was necessary to ascertain the strike and dip at that point, also to see structure and character of vein. I hope you will reconsider this refusal and make allowance for this work.

I note that you changed our voucher as to the assaying charges to conform with contract which only allows $3.00 per assay. The assaying charges have been $1.50 for Pb., $1.50 for Zn. and $1.50 for Au-ag, which made an assay charge of $4.50. This rate has now been raised to $2.00 for Au-ag which would bring our charges to $5.00 per sample. I am considering having our samples run for Pb. and Zn. only as the Ag. content runs quite uniformly with the Pb., zn. content. We would have composite samples run for Ag. occasionally. This would keep our assaying charge to $3.00 per sample. I would appreciate having your advice on this matter, but in interim, I have changed the charges on the voucher to comply with the contract.

Now that we will have the winze and station completed in a few days, I will make a map showing winze, the 89 foot level, station and then carry on all drifting so that we can show location of sampling on map, with each monthly report and voucher. Up to this time a map would be of no value as our winze is not on the vein.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt, Pres.

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS
46 South Main Street, Helena, Montana

TEL. HI 2-3770
P. O. BOX 537

Date Nov. 30-1956

UMPIRE ASSAY _____ CONTROL ASSAY _____ HAND SAMPLE _____

ASSAYED FOR: Boss Mines Inc.

MARKS: Box 904

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6119	dump sample	0.005	8.0	1.4		3.1				
	REPRESENTING ROCK									
	FROM WINZE-95' TO									
	120' DEPTH.									

Gold not deducted: _____

Charges $ 4/50

GOODALL BROS.

By A. V. Trent

2M—11-56—3476

DMEA Field Team, Region I, NW Dist November 29, 1956

Certifying Officer, Region I

Contract I&m-8743, Docket No. DMEA 3548. Ross Mines, Inc.
Monthly operating report for June 12-October, 1956.

The subject operating report has been received and processed for payment. Disallowances have been made as follows:

1. The operator drifted northerly 15 feet from the 89 foot level. This drifting is not called for in the contract and has not been approved by the Field Team. Therefore, $495.00 claimed by the operator for this item has been disallowed.

2. The operator claimed his actual costs of $48.00 for assaying 14 samples. The contract specifies a unit cost of $3.00 for each sample assayed. A cost of $42.00 has been approved to cover this item.

Myrtle Purdy

cc: Operator

DMEA (2)
USGS (2)

Wash. (2)
AD
JAB

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

Budget Bureau No. 42-R1036.5

NOV 1 1956

RECEIVED DEC 3 1956 D.M.E.A.

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

Month of June 12- October, 1956 inc. Docket No. DMEA 3543 Contract No. Idn-M-143 Amended

Operator's Name Boss Mines, Inc. Minerals lead - zinc

Address 545 N. Rodney St., Helena, Montana

Contract Amount, $ 57,208.50 Government Participation: 50 % Amount, $ 28,604.25

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:					12/6/56 J.W.D.	~~[illegible]~~ Klug, Berry
Drilling core				8/14/57 J.W.D.		
Bulldozing DD stations						
Crosscutting						
Drifting	495.00	—	495.00	—0—	—0—	—0—
winze sinking	6205.00	—	6205.00	6205.00	—0—	6205.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services Eng-Geol						
(3) Operating Mat'ls. and Supplies:						
Timber dft or x-cut						
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	48.00	—	48.00	42.00	—0—	42.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Stage I		21,543.50			21543.50	21543.50
TOTALS	6748.00	21,543.50	6748.00	6247.00	21543.50	27790.50

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

Date 11-13-56 *Payee BOSS MINES, INC.

Per C. H. Merritt Title Pres.

*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:

$ 3123 50

Signature M.D.P. (Authorized Certifying Officer)

Date 11-26-56 Vou. No. 1899

(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. E743 in accordance with the terms of the contract.

Signature 151 John A. Bowsher Title Mining Engr Date 11-14-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 A. E. Wissenborn Title Exec Officer Date 11-20-56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form ~~NF~~-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

NOV 4 - DEC'D

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Amended

Month of June 12-Oct. 1956 inc. Docket No. DMEA 3548 Contract No. Idm-E 743
Operator's Name Boss Mines, Inc. Minerals lead-zinc
Address 545 N. Rodney St., Helena, Montana

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	ft.	~~495.00~~	~~15~~	~~495.00~~	15		500	33.00
Raising								
Shafts								
Winzes sinking	ft.	6205.00	73	6205.00	73		100	85.00
Drilling: Core	ft.						1150	5.50
~~Other~~ DD S ta	ft.						20	33.00
" " Auger							30	30.00
~~Stoping~~ Dft -x-cut timber	ft.						200	7.50
Trenching								
Test Pits								
~~Rock and Tools~~ Assays	each	48.00	14	48.00	14	48.00	160	3.00
Engineer-Geologist	da	0.00	0	0.00	0		16	50.00
TOTAL DISTRIBUTED COSTS		6748.00	102					TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc. Stage I				21543.50				
TOTAL COSTS		6748.00	102	28291.50				

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

Date 11-13-56 Operator Boss Mines, Inc.

Per Ch. Hewitt Title Pres.

REMARKS:

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

(Instructions on reverse)

(For Government use only)

/s/ John A Bowsher

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

November 1, 1956

NOV 1 9 1956

D. M. E. A.
U.S. Bureau of Mines
Administration Bldg.
c/o Montana School of Mines
Butte, Montana

Re: Contract No: Amended Idm 2-743
Boss Mines, Inc. lead-zinc
545 North Rodney,
Helena, Montana

RECEIVED DEC 3 1956

Gentlemen:

On June 12th, 1956, we resumed work on our winze at the 45 foot level. The winze was continued downward vertically using 3x12 fir timbers as tight cribbing. The east wall of the vein was showing in the winze for the first 16 feet but gradually left the winze due to the dip of the vein to the west.

S inking was slow and costly as the ground was "ravelly" in places and in other sections was soft on the west side requiring timbers both ways on the winze outside of cribbing section.

The rock is a grey gneiss and not very hard. The flow of water was approximately 12 G.P.M. where we started and has now increased to approximately 19 G.P.M. At a point 44 feet below our starting point, or 89 feet below the adit level, we cross-cut 6 feet to the west, then drifted 15 feet to the north on the vein. Like the 45 foot level, the vein was quite lean near the winze but in 10 feet picked up to 11.0 % pb, 25.4 % zn. and 34 oz. ag, sample taken across 48 inch of face. The present face of this north drift shows about 18 inches outside of the east wall of vein and 4 feet of the vein which assays 9.6 pb., 28.5 zn. and 75.4 oz. ag. This silver assay is higher than any other samples and obviously included some of the Ruby which shows occasionally in the vein. We did not drift south on the vein, but where it is exposed in the crosscut on the southwest corner of winze, it shows 4 feet wide, assaying 3.0% pb., 18.1 zn. and 7.2 oz. ag. On October 31st we had sunk a total of 73 feet from the 45 level.

When the winze is completed, I will prepare a map spotting the assays and take samples each 10 feet in the drifts.

We have arranged with Mr. I. H. Irving, Mining engineer and geologist from Butte, Montana, to spend two days each month on the property, mapping and taking the geology so that he can check our work and we can discuss our work with him. I thought it would be of little help to have a geologist here while we are sinking as it is cribbed solid. We plan on getting him as soon as station is cut at the 145 foot level.

I had the assayer put all samples on one sheet to save time and expense. Hereafter, will include them with each months report.

Youre very truly,

BOSS MINES, INC. C. L. Hewitt

C. L. Hewitt, Pres.

~~A. J. GOODALL,~~
~~Assayer, Chemist~~

A. V. TRENT,
Assayer, Chemist

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

NOV 1 1 1935

Date.....

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines, Inc.

MARKS:

Sample No.	DESCRIPTION	Gold Ozs. Per Ton	Silver Ozs. Per Ton	Wet Lead Per Cent	Copper Per Cent	Zinc Per Cent	~~[illegible]~~ CHARGES	Insol Per Cent	Per Cent	Total Val. Per Ton
6105	July 27	Tr	64.5	8.8			$ 3.00			
6106	Aug. 6	0.005	29.8	24.2			3.00			
6107	" 11	Tr	7.8	10.2			3.00			
6108	" 13	0.01	8.9	2.2			3.00			
6109	Sept. 4	0.01	23.4	20.0			3.00			
6110	" "	0.01	44.6	10.2			3.00			
6111	" "	Tr.	12.5	10.6			3.00			
6112	" "	0.01	9.6	0.6			3.00			
6113	Sept. 7	Tr.	8.2	3.2		6.7	4.50			
6114	" "	Tr.	7.2	3.0		18.1	4.50			
6115	" 17	0.005	75.4	9.6		28.5	4.50			
6116	" "	Tr.	3.4	1.3			1.50			
6117	" 24	0.01	34.0	11.0		25.4	4.50			
6118	Oct. 4	0.01	27.1	5.2		11.2	4.50			

Gold not deducted:.....

Charges $ 48.00

GOODALL BROS.,

By A. V. Trent

NPCo. Form 5—A-6064

Sample #

6105 - 5' drill hole running west from NW corner of winze (sludge)

6106 - 6" vein near east side of winze N. 12, E. 38' below 45' level

6107 - 1st 3' of drill hole at 38' running west from W side of winze (sludge)

6108 - next 5' of drill hole extending from end of sample 6107 (sludge)

6109 - chunks of ore picked from cars of muck, 1st round to N. on 89' level

6110 - 36" sample across vein at 89' level, SW corner of winze

6111 - 1st 7 ft. of drill hole west side of winze at 89' level (sludge)

6112 - last 3 ft. of drill hole extention of sample 6111 (sludge)

6113 - face north drift on 89' level, 5' from winze, 5' wide not inc. HG streak

6114 - 4' vein matter exposed SW corner winze at 89' level

6115 - face N drift, 10 ft. from winze, 4 ft. wide, east part of vein

6116 - 16" vein cutting across N. drift 10 ft. from winze, 16" wide

6117 - face N drift on 89' level, 15 ft. from winze, 54" wide

6118 - grab car samples representing all muck from N. drift, 89' level

NOV 1 5 REC'D

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 7 - 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1955 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Dean Mines Inc. Minerals [illegible]
Address [illegible] Helena, Montana.
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						
Bulldozing						
Crosscutting	[illegible]	[illegible]	[illegible]		11990.00	11990.00
Drifting	[illegible]	[illegible]	[illegible]	330.00	9060.00	9390.00
(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	[illegible]	[illegible]	[illegible]	15.00	168.50	183.50
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	345.00	21198.50	21543.50

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

Date 12/17/55 *Payee Dean Mines Inc.

Per [signature] Title Pres.

*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:

$ 172.50

Signature [signature]
(Authorized Certifying Officer)

Date 4/30/56 Vou. No. 1760
(See other side)

Pay 104a + [illegible] to Washington Feb 6-1956

(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. E743 in accordance with the terms of the contract.

Signature 1st John A. Bowsher Title Mining Engr. Date Jan. 3-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Stephen W. Zaldok Title Mining Eng. Date Jan. 5-56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Rec'd Butte 12/29/55

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JAN 20 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

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

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Crosscutting	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
Raising								
Shafts								
Winzes								
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		[illegible]		[illegible]				[illegible]

~~Rejected~~
Betty
1/24/56 J.W.A.
1/24/56 W.R.R.

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

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

Remarks:

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

(Instructions on reverse)

(For Government use only)

/s/ John A Bowsher

Note
Operator has requested termination.
Payment being held up on this voucher.

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

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. HI 2-3770
P. O. BOX 537

Date DEC 3 - 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc. Box 904

MARKS:

Sample No.	DESCRIPTION	Gold Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Va Per To
~~6080~~		~~0.005~~	~~Nil~~	~~Nil~~						
6081	FACE - S. DIKE DRIFT - 5'	Trace	0.10	0.8	54½	S. FROM X CUT				
6082	BRONZE COLORED PYRITES	Trace	2.8	0.9	12" WIDE IN S. DRIFT -				50' FROM X CUT	

Gold not deducted:.....

Charges $ ~~9.00~~ 6.00

GOODALL BROS.

By A. V. Trent

NPCo. C-3669

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date NOV 25 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: | MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Va[illegible] Per To[illegible]
	FACE S. DIKE DRIFT 50'				FROM X CUT					
	" N " " 27'				"	X CUT				
	" N " " 24'				"	X CUT.				

Gold not deducted:.....

Charges $..... 9 00

GOODALL BROS.

By .....

NPCo. C-3217

Boss Mines Inc.

Helena, Montana Nov. 27,1955.

RECEIVED
JAN 30 1956

DMEA
U S Bureau of Mines
Administration Building
c/O Montana School of Mines
Butte, Montana.

Gentlemen:-

In the month of November,1955 we continued work on the south Dike drift which was extended 24.5 ft. The North Dike drift was also extended 17 ft. Both of these faces are low in mineral content,quite soft and broken. The vein structure continues to be strong and persistent.
We decided to abandon this dike drift and our action met with the approval of Mr. Bowsher.

There being no other approved work under this part of our contract,we suggest that it be terminated.

We would like to continue exploratory work with DMEA assistance, to get greater depth on the ore body that we have shown in our winze work. We have went down a depth of aprox 50 ft and drifted aprox 100 ft. All of this work is on a strong structure and has exposed very good grade of ore,in lead-zinc and silver content. The vein is strong, striking N 52 East and is strong in both the south and north faces of the drift. We would like to cut this vein from the Moulton shaft from the 300 level,which would give us aprox 260 ft of depth below our cross cut tunnel. I will write a seperate letter to the Spokane office for advice on this action.

In my October report,I mentioned the discrepancy in measurements on our work under contract, from the crosscut tunnel,dating back to May of 1956.
After discussion with Mr. Bowsher we find that no ~~allowances~~ allowance had been made for "side-swiping",or extra work for switch installations, which had been compensated for in the May measurments, by taking the drift measurments from track to face instead of wall to face as is now being done. This May report,having been approved in May,June,July, August and September reports,we assumed had been accepted and all of our budgets has been based on these figures.
Mr. Bowsher advised that there will be 31 ft deleted from what we have been paid for from our earned footage, so it looks like it is up to the DMEA to make this decision.

Yours very truly,

C.L.Hewitt
Boss Mines Inc.

C

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
March 14, 1956

RECEIVED
APR 13 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Final inspection, Docket No. DMEA-~~3750~~ 3548 (lead-zinc), Boss Mines, Inc., Cascade County, Montana, Contract Idm-E743

The Operator in his narrative accompanying the November 1955 voucher stated that he was abandoning work in the dike drift. He also requested approval for mutual termination of the contract.

The project was inspected on December 9 and reported December 13. The property was visited January 13 and Bruce Hewitt stated at that time no further work had been done, so the underground workings were not examined. Another trip was made on February 7 but the mine road from the highway at Neihart was inaccessible because of snow and ice. Darrell Pinckney, geologist, Geological Survey, visited the underground operations the first week of March 1956.

Since no further contract work has been done since November 1955, the interim inspection of December 9, 1955 constitutes the final inspection. The status of the contract work on December 9 follows:

	Authorized	Completed
Erect shop, compressor and change house building	$450.00	*
Rebuild road to adit and doze adit portal	16 hrs. dozing	*
Rehabilitate Rochester adit	540 feet	*
Timber Rochester adit crosscut & drift	100 "	*
Crosscutting and drifting	760 "	712 feet
Technical services	10 days	none
Assaying	100 samples	54

Note: *These items were completed before the contract was signed; therefore disallowed. The value of the items was converted by amendment to 110 linear feet of crosscutting and drifting, thus increasing this item from 650 to 760 feet.

John A. Bowsher

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

3548

Date 4-13

Referred to:

1. ~~[illegible]~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. ~~Docket Control Mails and Files~~
5. ~~[illegible]~~ Division
6. Docket Control Mails and Files

Note comments in report regarding:

1. Mutual Term involved
2.
3.
4.

and take appropriate action.

Action taken by Division:

4/17/56 - Mutual Termination Agreement signed J.C.

ROBERT E. ADAMS

Initials

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

RECEIVED
MAR 1 0 1956

March 13, 1956

[redacted]

To: Field Team, Region X, Northwest District

From: Harrell H. Pinckney, Geologist, U. S. Geological Survey

Subject: Final inspection report, Docket No. DMEA-3548 (Lead-Zinc)
Rose Mines, Inc., Rose & Atlantic claims, Hallnert,
Cascade County, Montana

Final inspection of the Rose and Atlantic workings was made February 29 by H. H. Pinckney and Don Hallum, geologists, U. S. Geological Survey. The drift on the 16A vein and the 50-foot winze level on the 16A vein were mapped (DMEA did not participate in the exploration from the winze).

The 16A vein structure north of the crosscut is completely barren and consists only of a few gouge strands in the footwall of the rhyolite porphyry dike. Both the alteration and gouge strands get progressively weaker further from the crosscut.

South of the crosscut several vein strands merge to form a stronger oxidized vein composed chiefly of manganese oxides. The vein is exposed for about 45 feet; it reaches a width of 4 feet. Further to the south the vein narrows and changes to two subparallel pink carbonate stringers that contain no sulfides. Sulfide stringers are restricted to the hanging wall near the crosscut.

The following samples have been taken:

No.	Width (feet)	Oz Au	Oz Ag	% Pb	% Zn	% Cu	% Mn	Remarks
934	8	0.005	2.2	0.15	--	0.06	2.85	Slightly mineralized sheared and altered footwall of vein in crosscut
935	1.3	0.005	21.0	10.1	26.0	0.22	2.30	Smaller sulfide pod oxidized vein south of crosscut
949	Results not yet available							

The 101 vein on the winze level contains as much as seven feet of vein material composed mostly of alternating bands of carbonates and sulfides. The vein is stoped for a horizontal distance of 30 feet and a vertical distance of 37 feet. The ore from this stope contains about 40 ounces of silver per ton, 3 percent lead and 3 percent zinc.

Distribution:
MMA (Orig. & 3)
UMM (2)
UMM (AD)
Rachel
Pinchney

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

1201 N. Division St.
Spokane 2, Washington
January 4, 1956

RECEIVED
JAN 23 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: November voucher, Docket No. DMEA-~~3458~~ 3548, Boss Mines, Inc., Cascade County, Montana, Contract No. Idm-E743

Reference is made to the Operator's voucher and narrative for November 1955 relating to the subject contract.

Note that the Operator has vouchered for 41.5 feet of drifting, totaling to date 742.5 feet of combined drifting and cross-cutting.

Referring to my routine inspection report of December 13 (inspection made December 9), paragraph 3, we remeasured the work done under the contract and found the combined drifting and crosscutting totaled 712 feet. Quoting from the report: "Since the contract work prior to November 1 was overvouchered and overpaid, all the combined drifting and crosscutting claimed in the November voucher in excess of 712 feet total should be deleted for payment."

Therefore, the Operator should receive payment in November for 11 feet of drifting, instead of 41.5 feet, to make a combined total of 712 feet of drifting and crosscutting.

Also note that the Operator in his narrative for November, paragraph 1, states: "We decided to abandon this dike drift and our action met with the approval of Mr. Bowsher." This is only partially true. Referring to my inspection report of December 13, last sentence of the last paragraph, quote: "The Operator was advised to stop the drifting to the north and complete the remaining footage (48 feet) under the contract in exploring the structure in the south drift."

Continued drifting on the footwall of the dike, to the south, might not be any more fruitful than it was on the hanging wall, but the structure is such that it offers probably the best objective to complete the remaining footage (48 feet) under the contract.

A mutual termination, as the Operator suggests, might be approved subject to the Field Team considering the exploratory data to date.

DMEA, Wash. (4)
USGS (2)—AD
DMEA—M/D—JAB/he

John A. Bowsher

~~3458~~ 3548

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT

Date 1-23

Referred to:

1. ~~Mr. Mittendorf~~
2. ~~Mr. Johnson~~
3. ~~Mr. Dannenfelser~~
4. ~~Docket Control Mails and Files~~
5. ~~Chief Clerk~~ Division
6. Docket Control Mails and Files

Note comments in report regarding:

1. Possible Terminations?
2. Revised analyses required.
3.
4.

and take appropriate action.

- - - - - -

Action taken by Division: 1/31/56
Recommendations of Executive Officers, letter of January 24, received Jan. 30, 56 be noted. Termination Agreement will be prepared.
ROBERT E. ADAMS J.A.

Initials

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
December 13, 1955

RECEIVED
JAN 3 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher and E. C. Pattee, Mining Engineers, Bureau of Mines

Subject: Interim report, Docket No. DMEA-~~3458~~ 3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743

A routine inspection was made on December 9, accompanied by Bruce Hewitt. The previous inspection was made October 28.

The advance during the interim was drifting north and south along the footwall of the rhyolite dike, near the face of the adit crosscut. The advance north was 20 feet, the face measuring 31 feet from the north wall and 33.5 feet from the center line of the track of the adit crosscut. The advance south was 36 feet, the face measuring 53 feet from the south wall and 55.5 feet from the center line of the track of the adit crosscut. The total advance consisted of 56 feet (20 + 36) of drifting.

The contract work, combined crosscutting and drifting, to date, was remeasured and it now totals 712 feet (scheduled 760 feet). Since the contract work prior to November 1 was overvouchered and overpaid, all the combined drifting and crosscutting claimed in the November voucher in excess of 712 feet total should be deleted for payment. The October voucher had not been paid to date pending remeasurement of the contract work and rechecking the vouchers and inspection reports. Since the actual work to date covers the advance claimed in the October voucher, the October voucher is hereby O.K.'d for payment (telephoned to Mrs. Myrtle Purdy, December 12).

The fair lead-zinc mineralization previously observed (interim report of October 28) in both the north and south drift has practically disappeared in the face of the north drift and very much reduced in the south drift. The width of the zone of alteration has also been reduced, probably because of subsequent movement. The Operator was advised to stop the drifting to the north and complete the remaining footage (48 feet) under the contract in exploring the structure in the south drift.

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

John A. Bowsher

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

Budget Bureau No. 42-R1036.5

RECEIVED
DEC 16 1955

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

Month of October, 1955 Docket No. DMEA3548 Contract No. IDM E 743
Operator's Name Boss Mines Inc Minerals Lead-Zinc
Address 545 N. Rodney St Helena, Montana.
Contract Amount, $ 24146.00 Government Participation: 50 % Amount, $ 12073.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting	None	11970.00	11970.00		11970.00	11970.00
Drifting	1260.00	7800.00	9060.00	1260.00	7800.00	9060.00
(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	3.50	165.00	168.50	3.50	165.00	168.50
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1263.50	19935.00	21198.50	1263.50	19935.00	21198.50

Dec 21
~~Hagerschmidt~~
Betty

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

Date Nov. 14, 1955 Payee Boss Mines Inc.

Per C L Heerett Title Pres.

*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)

1 cy 104a - narrative
mail to Washington
Dec. 2 - 1955

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

$ 631.75

Signature M 2P
(Authorized Certifying Officer)

Date 12-12-55 Vou. No. 1664
(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. E743 in accordance with the terms of the contract.

Signature /S/ John A. Bowsher Title Mining Engr Date 11-18-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldoh Title Mining Engr Date 12-12-55

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.

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

RECEIVED
SEP 26 1955

TEL. 628
P. O. BOX 537

Date AUG 20 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc. Bryson City

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6048	49" VEIN EASTSIDE	Trace	4.0	0.8	OF DIKE		H.6. EXCLUDE			
6049	48" CRUSHED DIKE	Trace	2.7	0.6	ROCK E OF 6048					
6050	OXIDIZED VEIN MATTER	Trace	0.9	1.0	S. SIDE X CUT AT 6048-3					
6051	H.6. SULPHIDE - 4" IN	0.005	50.2	9.4	SAMPLE 6048					

Gold not deducted:.....

Charges $ 12.00

GOODALL BROS.

By A. V. Trent

NPCo. C-3217

RECEIVED
SEP 2 0 1994

Payment is being held up until the engineer visits the mine again and we have a report from him.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
DEC - 5 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1955 Docket No. DMEA 3548 Contract No. IDM E 743
Operator's Name Boss Mines Inc. Minerals Lead-zinc
Address 545 N. Rodney St. Helena, Montana.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft	1260.00	42	9060.00	302	30.00	760	30.00
Crosscutting	Ft	none	none	11970.00	399	30.00		30.00
Raising								12/8/55 J.M.A.
Shafts								
Winzes								1/3/56
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	1	3.50	1	168.50	49	3.50	100	3.50
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1263.50		21198.50				24146.00

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 Nov. 14, 1955 Operator Boss Mines Inc.

Per C. L. Hewitt Title Pres

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

November 14,1955.

RECEIVED

DMEA
U. S. Bureau of Mines
Administration Building
c/o Montana School of Mines
Butte, Montana.

Gentlemen;-

In the month of October, we drifted south on the "Dike" vein a distance of 30 feet and to the north,12 ft,on same vein. Very little mineral is showing and the vein is soft with heavy gouge and considerable oxidized material showing practically no values.
This is all the work that was done on DMEA participation,although the work on the winze was continued and five car loads of ore shipped, four of which have been settled for and royalty paid.
We are now drifting on the 50 ft level on a strong vein and would like to have DMEA assistance on this exploratory work. It is purely exploratory as it did not show up on the drift level and we wish to prove a length to the ore shoot and will them make preparations to develop it at greater depth.

After we completed the work in October on the drifting, we were advised that there had been an error back in May and that 31 ft of credit would be deleted from our October reported footage.
We were not advised as to this action until November which makes it a rather rough deal on me as my budget would not permit this work to have been done if I had known that we would have to stand the entire cost. In fact I did not wish to do that work,but was urged to do it.

The reason for the discrepancy in the measurments is a result of the difference in the manner of measuring. The engineers who were in charge of the Butte office at that time agreed,when I called attention to the fact that we had an excessive amt of work involved in drifting due to the side swiping and cutting out for switches. To compensate for this,I understood that all measurments were taken from track instead of wall.

This deduction will mean a personal loss to me of that amount as I accepted the monthly reports,each of which has been approved since May and made my budget accordingly. It certainly does not appear to be a fair way to arrive at a balance at this time,and I respectfully request that you reconsider it.

Yours very truly,
C.L.Hewitt
C.L.Hewitt Pres.

P.S. Please excuse the lateness of this report as I have been held in the field due to the bad weather and the installation of new equipment at the mine.
CLH.

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

RECEIVED
DEC - 5 1955

Date OCT 8 - 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc. Box 904 MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6066		0.005	34.0	4.8						
6067		Trace	40.2	2.8						
6068		Trace	18.0	2.6						
6069	52" VEIN IN MAIN	Trace	2.2	0.6		2.0				
	XCUT - 92' - WEST OF									
	101 DRIFT.									
	DIP - 52 - W STRIKE									
	N. 11 E - SAMPLED									
	ON SUGGESTION									
	MR. BOWISHER									

Gold not deducted.....

Charges $ ~~13.2~~ 3.50

GOODALL BROS.

By A. V. Trent

NPCo. C-3217

Iron Mines Co.

Iron Pot

Iron	5.5	0.1
Iron	18.0	4.6
Iron	40.5	4.8
	34.0	100.0

0.0

Tailings

13

xxxxxxxxxxxxxxxxx

1201 N. Division St.
Spokane 2, Washington
November 18, 1955

RECEIVED
DEC - 6 1955

Alt
Betty

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-~~2498~~ 3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743

A routine inspection was made on October 28, accompanied by S. W. Zaldok, Mining Engineer, Bureau of Mines. The previous inspection was made on October 6.

The advance during the interim was drifting north and south along the footwall of the rhyolite dike about 15 feet from the present face of the adit crosscut. The bearing of the drift is approximately N. 5° W. and the footage advance totals 28 feet - 11 feet north and 17 feet south of the crosscut. Fair lead-zinc mineralization was observed and the operator has been requested to take samples.

The total measured footage under the contract as of September 1, combined crosscutting and drifting, was 628 feet (authorized 760 feet). The total advance to date is 628 + 28 = 656 feet. The Operator's voucher for August (the last one received) shows a total of 659 feet. The Operator has been informed of the over-vouchering and a remeasurement will be made on the next month's inspection.

John A. Bowsher

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

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

RECEIVED
OCT 24 1955

1201 N. Division St.
Spokane 2, Washington
October 6, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher, Mining Engineer, Bureau of Mines

Subject: Interim report, Docket No. DMEA-~~3458~~ 3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743

A routine inspection was made on October 6, 1955, in the company of Mr. C. L. Hewitt, president of Boss Mines, Inc. The previous inspection was made on September 1, 1955.

No advance was made during the interim. The exploration work under the contract had been stopped the latter part of August by the Government, pending clarification of Amendment No. 1, dated July 27, 1955, regarding continuation of the Rochester adit crosscut.

The Operator has been directed (letter of September 27, 1955) to resume drifting at the footwall of the rhyolite dike about 15 feet from the present face of the adit crosscut. The Operator needs more personnel to begin exploration drifting since the present crew is employed on company time in sinking the winze near BM 462. The present depth of the winze is about 40 feet; three cars, about 170 tons, of ore has been shipped to the smelter and the Operator has instructed the smelter to forward payment direct to the Field Team, Spokane office, for royalty under the subject contract.

John A. Bowsher

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

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

1201 N. Division St.
Spokane 2, Washington
September 14, 1955

RECEIVED
OCT 10 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John A. Bowsher and E. C. Pattee, Mining Engineers, Bureau of Mines

Subject: Interim report, Docket No. DMEA-~~3458~~ 3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743

A routine inspection was made on September 1, 1955, in the company of Mr. C. L. Hewitt, president, Boss Mines, Inc. The previous inspection was made on July 29, 1955.

The Rochester adit crosscut was advanced 23 feet during the interim. Progress was stopped by authority of Mr. Darrel Pinckney, geologist, U. S. Geological Survey, upon advise of the Spokane office of the Survey.

A rhyolite dike 39 feet wide with a mineralized structure on the footwall and hanging wall of the dike was cut in the crosscut at 187 feet from BM 411. The footwall, east side, of the dike is back 15 feet from the present face of the crosscut.

During the present recess of crosscutting the Operator is sinking the winze near BM 462; this is being done on company time.

John A. Bowsher

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

RECEIVED
SEP 26 1955

DMEA Field Team, Region I, NW District

September 21, 1955

DMEA Certifying Officer

Boss Mines, Inc. Contract Idm-E743, Monthly operating report for August 1955

The subject report has been processed for payment.

A disallowance of $4.50 has been made from the costs claimed for assays. The two invoices from Goodall Brothers, samples No. 6052 and No. 6053, covered samples taken from the winze and therefore are not covered by the contract.

Myrtle Purdy

cc: Operator
DMEA (2)
USGS (2)

RECEIVED
SEP 26 1955

XXXXXXXXXXXXXXXXXX
1201 N. Division Street
Spokane 2, Washington
September 21, 1955

Boss Mines, Inc.
545 N. Rodney Street
Helena, Montana

Re: Contract Idm-E743
Boss Mines, Inc.
Monthly Operating report
for August 1955

Gentlemen:

The subject operating report has been processed and forwarded to the Disbursing Officer at Portland, Oregon, for payment.

This is to inform you that payment could not be made in the full amount claimed. The deletion is explained in the attached copy of a letter from the DMEA Certifying Officer to the Field Team.

By Field Team, Region I
Northwest District

Verne C. Fryklund, Jr.
Acting Executive Officer
U. S. Geological Survey

cc: DMEA (2)
USGS (2)

Stephen W. Zoldok, Acting Member
U. S. Bureau of Mines

RECEIVED
SEP 26 1955

DMEA Field Office, Region 2, NM District September 21, 1955

DMEA Certifying Officer

Boss Mines, Inc. Contract 1d2-1743, Monthly operating report for August 1955

The subject report has been processed for payment.

A disallowance of $4.[illegible] has been made from the costs claimed for assays. The two invoices from Goodall Brothers, samples No. 6052 and No. 6053, covered samples taken from the winze and therefore are not covered by the contract.

Myrtle Purdy

cc: Operator
DMEA (2)
USGS (2)

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

Budget Bureau No. 42-R1036.5

RECEIVED
SEP 26 1955

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

Month of August 195 5 Docket No. DMEA 2949 Contract No. IDI R 703
Operator's Name Dons Mines, Inc. Minerals ~~Lead - Zinc~~
Address 540 N. Rodney, Helena, Montana
Contract Amount, $ 24,146.00 Government Participation: 50 % Amount, $ 12,073.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling				9/30/55		
Bulldozing						
Crosscutting	660.00	11310.00	11970.00	660.00	11310.00	11970.00
Drifting	None	7800.00	7800.00		7800.00	7800.00
(2) Labor and Supervision:						
Labor						9/28/55 J.M.A.
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	12.50	153.00	165.50	12.00	153.00	165.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	672.50	19263.00	19935.50	672.00	19263.00	19935.00

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

Date 9-12-55 *Payee Dons Mines, Inc.

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:

$ 336.00

Signature [signature]
(Authorized Certifying Officer)

Date 9-21-55 Vou. No. 1609
(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. E74-2 in accordance with the terms of the contract.

Signature (S) John A Bauscher Title Mining Engr Date 9-12-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen W Zoldok Title Mining Engr Date 9-19-55

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

Lead Butte
9/12/55

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED
SEP 26 1955

Month of August 1955 Docket No. DMEA 2040 Contract No. [illegible]
Operator's Name Doss Mines, Inc. Minerals Lead - Zinc
Address 305 N. Rodney, Helena, Montana

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	ft.	2000	2000	7000.00	200	30.00	700	30.00
Crosscutting	ft.	660.00	22	11970.00	300	30.00		30.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails		12.00	4	165.00	48			
Assaying	1	~~10.00~~	~~2~~	~~100.00~~	~~50~~	2.00	100	2.00
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		~~[illegible]~~ 672.00	0	~~[illegible]~~ 19935.00				24146.00

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.

REMARKS:

Date 9-12-55 Operator Doss Mines, Inc.

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.

(Instructions on reverse)

(For Government use only)

/s/ John A Bowcher

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

Helena Montana, October 11,1955.

RECEIVED
BUREAU OF
OCT 1 8
SPOKANE, WA

Act
Belly

DMEA
Bureau of Mines
301 Administration Building
Montana School of Mines
Butte, Montana.

RECEIVED
OCT 3 1 1955

Re Docket No. DMEA 3548
Boss Mines Inc.
Cascade County Montana
Contract No Idm.E743.

Gentlemen;-

There was no work carried out under our contract in the month of September,1955.

All the work was done in the winze. I did not wish to stop this work as the walls are soft in places and if allowed to soak up with water,would give us trouble.

I have been trying to get two more miners so that we could do the 40 feet of drifting,now authorized, on the wall of the rhyolite dike near the face of our cross-cut.
Most of the miners have been engaged in the pulping operations in the timber but I have two in sight who have promised to be on the job by the 15th,at which time we will start the drifting above mentioned.

We have shipped four car loads of ore to the A S & R at East Helena,but have received no settlements so far. This ore should run aprox 60 ounces ag and about 6% lead.
The vein ore runs much better but we have a "horse" between the two veins and there is no chance to sort that out or mine it selectively like we could in a drift or stope.

I am not making out a Progress report or Voucher as there was no work under the contract for the month.

Yours very truly,

Boss Mines Inc.

C. Ch. Hewitt, Pres.

Rpt

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
August 19, 1955

RECEIVED
SEP - 1 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: John A. Bowsher and E. C. Pattee, Bureau of Mines Engineers

Subject: Interim report, Docket No. DMEA 3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743

A routine inspection of the project was made July 29, 1955. The previous inspection was made on June 14.

The drift started during the previous inspection period from the Rochester adit was started at BM 411 + 182 feet instead of BM 411 + 191 feet as reported. The drift bears S. 8° E. and had been advanced 34.8 feet. One set of timber had been placed in the Rochester adit at the start of the drift and two sets had been placed in the drift.

A drift had been started from the Rochester adit at BM 411 + 65 feet. The drift bears S. 14° W. and had been driven 78.2 feet. The vein decreases in width near the face of the drift.

The advance in the Rochester adit was not measured during the June inspection because of smoke and gas from blasting. The face of the adit on July 29, 1955 was 218.7 feet S. 62° E. from BM 411.

An amendment has been made to allow the funds allotted to work completed prior to the effective date of the contract to be used for additional crosscutting and drifting. Another amendment is being made to include the Hartley claim in the contract. The Hartley claim is being included because additional crosscutting to the east may intersect veins that might apex on the Hartley claim.

The project was inspected on August 10, 1955 by Darrell M. Pinckney of the Geological Survey and E. C. Pattee of the Bureau of Mines, accompanied by Mr. C. L. Hewitt. At this time a cursory examination of the Hartley mine and surrounding area was made. The Field Team representatives then recommended that additional crosscutting be done to the east at the Rochester adit.

Status of the contract work on July 29, 1955 was as follows:

	Authorized	Completed
Fixed Unit Costs		
Rehabilitation of Rochester adit	540 feet	*
Crosscutting and drifting	760 " **	607 feet
Timbering adit and drifts	100 "	16.3 "
Scheduled Actual Costs		
Bulldozing road and adit portal site	$200	*
Professional personal services	$500	none
Compressor and tool house	$450	*
Sampling and assaying	$350	$126

*Completed prior to contract date.
**Increased from 650 feet by Amendment No. 1

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

E. C. Pattee

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

RECEIVED
BUREAU OF MINES
AUG 17 1955
SPOKANE, WASH.

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

Budget Bureau No. 42-R1036.5

RECEIVED
AUG 26 1955

Month of July, 1955 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible], Inc. Minerals [illegible]
Address [illegible], Montana
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:						8/30/55 J.W.A.
Drilling				9/13/55		
Bulldozing						
Crosscutting	[illegible]	[illegible]	[illegible]		11310.00	11310.00
Drifting	[illegible]	[illegible]	[illegible]	1350.00	6450.00	7800.00
(2) Labor and Supervision:						
Labor						
Supervision					Klugerhead	
Technical Services						
(3) Operating Mat'ls. and Supplies:					Betty	
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	[illegible]	[illegible]	[illegible]	27.00	126.00	153.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	1377.00	17886.00	19263.00

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

Date [illegible] *Payee [illegible], Inc.

Per [illegible] 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:

$ 688.50

Signature MEP
(Authorized Certifying Officer)

Date 8-17-55 Vou. No. 1579

(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. E743 in accordance with the terms of the contract.

Signature /S/ Eldon C Pattee Title Mining Engr Date 8-15-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 8-17-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED

OPERATOR'S UNIT COST AND PROGRESS REPORT

AUG 2 3 1955

Month of [illegible] 1950 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Crosscutting	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Raising					377			
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		[illegible]		[illegible]				

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

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

/s/ Eldon C Pattee

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

August 1[illegible], 195[illegible]

[illegible] A.
U. S. Bureau of Mines
Administration Building
Montana School of Mines
Butte, Montana

Re: Boss Mines, Inc.
Docket [illegible] 3549
Contract [illegible] Z 743

Gentlemen:

During the month of July, 1955, we drifted 45 feet south on our 101 drift. The values became lower as we advanced and the face at present is very lean, so this work was abandoned.

We cut in two rounds in a raise from our 101 north drift which still has good ore in the back.

A winze was also started and has a high grade ore at 3 feet below crack level. Winze is started approximately 25 feet north of the crosscut. The raise and winze work are "on our own."

I will have a tracing and prints finished soon, so on all future reports, a sketch will be included showing the work for the month.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt

C. L. Hewitt, Pres.

[illegible]

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

RECEIVED
AUG 26 1955

Date JUL 21 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc.

MARKS: Br 904

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6062		Trace	116.6	5.8						
6063		Trace	34.8	2.4						
6064		0.005	11.8							

Gold not deducted:.....

Charges $ 7.50

GOODALL BROS.

By A. V. Trent

NPCo. C-3217

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

RECEIVED
AUG 26 1955

TEL. 628
P. O. BOX 537

Date JUL 22 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bro Mines Inc. MARKS: Box 90

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6064	B" LEAD ON			55.6						
	6064									

Gold not deducted:.....

Charges $ 1.50

GOODALL BROS.

By G. T. Trent

NPCo. C-3217

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

RECEIVED
AUG 26 1955

Date JUL 11 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bess Mines Inc. Buryal

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6055	10" Drift - Face 65'	Trace	0.7	0.6		2.5				
6056	" " " " 70'	Trace	1.1	0.8		2.4				
6057	" " " " 75'	Trace	1.0	0.4		1.1				
6058	" " " " 80'	Trace	0.8	0.4		0.5				

Gold not deducted:.....

Charges $ 18.00

GOODALL BROS.

By A. V. Trent

NPCo. C-3217

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

1201 N. Division St.
Spokane 2, Washington
July 1, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: G. A. Apell and E. C. Pattee, Bureau of Mines Engineers

Subject: Routine inspection report, Docket No. DMEA 3548 (lead-zinc) Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Contract No. Idm-E743

A routine inspection of the project was made on June 14, accompanied by Mr. Hewitt, Jr., son of the company president.

Since the last inspection a drift had been started at approximately BM 411 + 191 feet. The drift bears approximately S. 40° W. Smoke and gas from blasting prohibited measuring the drift, but according to the operators the drift had been advanced approximately 35 feet. Measurements of the drift will be made during the next inspection.

The 101 drift north had not been advanced since the last inspection on May 26.

Fixed Unit Costs	Authorized	Completed
Rehabilitation of Rochester adit	540 feet	*
Crosscutting and drifting	650 "	494 ft. approx.
Timbering adit and drifts	100 "	16 " "
Scheduled Actual Costs		
Bulldozing road and adit portal site	$200	*
Professional personal services	$500	none
Compressor and tool house	$450	*
Sampling and assaying	$350	$82.50

*These items were disallowed because the work was completed prior to the effective date of the contract.

E. C. Pattee

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

RECEIVED
JUL 25 1955

DMEA Field Team, Region I, SW District July 20, 1955

DMEA Certifying Officer, Region I

Contract Idm-5743, Ross Mines, Inc. Monthly operating report for June 1955.

The subject operating report has been received and processed for payment.

The operator has claimed assays at their actual cost instead of at the maximum of $3.50 per assay allowed by the contract. Therefore, a deletion of $9.00 has been made to bring the assay cost to date to $126.00, which is the amount provided by the contract for the 36 assays claimed.

Myrtle Purdy

cc: Wash. (2)

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUL 25 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 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				7/28/55		8/1/55
Bulldozing						
Crosscutting	[illegible]	11[illegible]	11[illegible]		11810.00	11910.00
Drifting	[illegible]	[illegible]	[illegible]	2522.60	3930.50	6450.00
(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	50.00	82.50	132.50	43.50	82.50	126.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Totals	[illegible]	1[illegible]	17[illegible]	2563.50	15322.50	17886.00

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 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:

$1281.75

Signature [illegible]
(Authorized Certifying Officer)

Date 7-20-55 Vou. No. 1566
(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. E743 in accordance with the terms of the contract.

Signature 151 Eldon C Pattee Title Mining Engr. Date 7-13-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Stephen W Zoldoh Title Mining Engr Date 7-18-55

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

RECEIVED
JUL 25 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195 5 Docket No. DMEA _____ Contract No. [illegible]
Operator's Name Dom Mines, Inc. Minerals [illegible]
Address [illegible] Helena, Montana

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	[illegible]	[illegible]	34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Crosscutting	[illegible]	none	none	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails		48.50		1260.00				
Assaying	1	[illegible]	12	[illegible]	30	[illegible]	[illegible]	[illegible]
TOTAL DISTRIBUTED COSTS		2563.50 [illegible]	57	17[illegible]3.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		~~[illegible]~~ 2563.50		~~[illegible]~~ 17886.00				24146.00

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 7-6-55 Operator Dom Mines, Inc.

Per [signature] Title President

REMARKS:

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

(Instructions on reverse)

(For Government use only)

Isl Eldon C Pattee

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

RECEIVED
JUL 25 1955

July 7, 1955

U. S. A. A.
U. S. Bureau of Mines
c/o Montana School of Mines
Administration Building
Butte, Montana

Re: Boss Mines, Inc.
Docket [illegible]
Contract ID [illegible]

Gentlemen:

In the month of June, 1955, we drifted 75 feet on the 10[illegible] vein which lies along the dike near the face of the crosscut. The values were low and the vein showed splitting and fault-ing at 35 feet from the crosscut so this drift was abandoned.

We then started to drift on the 10[illegible] vein which is [illegible] feet from our starting point, and advanced [illegible] feet in June. There is a streak of good ore on the hanging wall side of drift which runs from three to eight inches wide. The strike is [illegible] 10 [illegible] and dip [illegible] to 88 [illegible].

We propose to continue this drift for the present.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt

C. L. Hewitt, Pres.

[illegible]

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

RECEIVED
JUL 25 1955

TEL. 628
P. O. BOX 537

Date JUN 11 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bozo Mines Inc. Box 904 City

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6044	25' FROM XCUT IN	Trace	0.9	0.8		4.0				
	103-S. DRIFT									
	(ON DIKE)									

Gold not deducted:.....

Charges $ 4.50

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date JUN 17 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc.

MARKS: Bor 904

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6045	FACE - 103 DRIFT 35' FROM X CUT	Trace	0.7	0.8		3.2				

Gold not deducted:.....

Charges $ 4.50

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date JUN 20 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc. BL 904 City

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6045	FACE 5' FROM X CUT 102 - S. DRIFT	Trace	0.4	0.4		Trace				

Gold not deducted:.....

Charges $ 4.75

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date JUN 24 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bras Mines Inc.

MARKS: Box 904

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
	5"-H.G. ON HNG. WALL									
6046	102-S. DRIFT AT 15'	Trace	7.2	20.2		31.0				
6047	ALL OF FACE-102	Trace	2.7	4.6		4.9				
	S. DRIFT AT 15'									

Gold not deducted:.....

Charges $ Gu

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date JUL 1 - 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bow Mining Co.

MARKS: Box 904

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6048	102 S. DRIFT FACE 22 FT	Trace	4.0	3.2		4.5				
6049	" " " " 26 "	Trace	1.9	1.8		4.2				
6050	" " " " 30 "	Trace	0.9	0.8		1.8				
6051	" " " " 34 "	0.005	1.4	1.2		3.4				
6052	" " " " 39 "	Trace	0.9	0.8		3.0				
6053	" " " " 44 "	Trace	0.8	0.6		0.9				
6054	1" STREAK AT 40' GOING IN FOOT WALL	0.01	1.2	1.0						

Gold not deducted.....

Charges $ 7.00

GOODALL BROS.

By A. V. Trent

NPCo. C-3217

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
June 13, 1955

RECEIVED
JUL 1 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: G. A. Apell and E. C. Pattee, Mining Engineers, Bureau of Mines

Subject: Routine inspection report, Docket No. DMEA 3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743

A routine inspection was made of this project on May 26, 1955, accompanied by Mr. Hewitt, Jr., son of the company president.

The main crosscut had been driven 361 feet from the starting point of the contract at the time of the April 20 inspection. The starting point of the contract is BM 448 + 42 feet instead of BM 448 as reported previously.

The drift northeast from BM 462 had been advanced 61 feet since the last inspection. The vein splits near the face of the drift. The portion of the vein branching northward petered out within a few feet. The drift follows the northeasterly trending branch which is decreasing in width.

A short crosscut had been driven northwesterly from BM 472 to locate the vein.

A short drift had been driven to the southwest to explore a structure at approximately BM 448 + 128 feet. The north wall of the main crosscut had been slabbed opposite the drift.

Measurements made by a Brunton compass-tape survey are as follows:

BM 462 to BM 472	N 36° E	36.2 feet
BM 472 to face of drift	N 36° E	64.3 "
BM 472 to face of XC NW	N 52° W	17.0 "
BM 462 to Temp. 2	N 72° W	25.2 "
Temp. 2 to face of drift	S 24° W	14.0 "

Following is the status of the contract work at the time of the inspection on May 26:

	Authorized	Completed
Fixed unit costs		
Rehabilitation of Rochester adit	540 feet	(1)
Crosscutting and drifting	650 "	486 feet (2)
Timbering adit and drifts	100 "	none
Scheduled actual costs		
Bulldozing road and adit portal site	$200	(1)
Professional personal services	500	none
Compressor and tool house	450	(1)
Sampling and assaying	350	$42

(1) These items were disallowed because the work was performed prior to the effective date of the contract.

(2) 27 feet subject to approval of the Government.

E. C. Pattee

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

4 (Rev.)
52)

Budget Bureau No. 42-R1036.5

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

RECEIVED
JUN 20 1955

Month of May, 1955 Docket No. DMEA 3548 Contract No. IDM E 74f3
Operator's Name Boss Mines, Inc. Minerals lead - zinc
Address 545 North Rodney, Helena, Montana
Contract Amount, $ 24,146 Government Participation: 50 % Amount, $ 12,073

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:						6/21/55. J.W.A.
Drilling						
Bulldozing						
Crosscutting	570.00	10,767.00	11,337.00	570.00	10740.00	11310.00
Drifting	1500.00	2,430.00	3,930.00	1500.00	2430.00	3930.00
(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	40.50	42.00	82.50	40.50	42.00	82.50
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2110.50	13,239.00	15,349.50	2110.50	13212.50	15322.50

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

Date June 6, 1955 *Payee Boss Mines, Inc.

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:

$ 1055 25

Signature [signature]
(Authorized Certifying Officer)

Date 6-15-55 Vou. No. 1523
(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. 6743 in accordance with the terms of the contract.

Signature /S/ G. A. Apell Title Mining Eng. Date 6-8-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Eng. Date 6-10-55

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.

F-104A
(Rev. April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUN 20 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1955 Docket No. DMEA 3548 Contract No. IDM E 743
Operator's Name Boss Mines, Inc. Minerals lead - zinc
Address 545 North Rodney, Helena, Montana

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	ft.	1500	50	3930	~~101~~ 131	30.00	250	30.00
Crosscutting	ft.	570	19	~~11327~~ 11310.00	377	30.00	400	30.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	1	40.50	11	82.50	24	~~3.68~~ 3.44	100	3.50
TOTAL DISTRIBUTED COSTS		2110.50		~~15349.50~~ 15322.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2110.50		~~15349.50~~ 15322.50				24,146

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

REMARKS:

Date June 6, 1955 Operator Boss Mines, Inc.

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.

(Instructions on reverse)

(For Government use only)

G a Spell

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

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date MAY 9 - 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc. Bazyoc City

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6038	Zinc in A 6038					1.2				

Gold not deducted:.....

Charges $ 1.50

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date ~~APR~~ MAY 2 - 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bras Miner Inc.

MARKS: Box 904 Helena, Montana

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
1	12" VEIN AT 385'-X Cut	Trace	3.2	0.4		1.1				
2	28" " AT 400 X "	Trace	0.7	0.2		0.1				
3	CAR 6 RAB MUCK	Trace	0.7	0.3						
	FROM 385 to 400 FT									
	IN X CUT.									

Gold not deducted:.....

Charges $ 17.00

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date MAY 11 1955

UMPIRE ASSAY: CONTROL ASSAY: HAND SAMPLE:

ASSAYED FOR: Bess Mines Inc. Box 904 City

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6043	HEAVY PINK SPAR	Trace	0.5							
	HING WALL SIDE									
	101 N. DRIFT AT									
	81 FT.									
	FINELY DISEMINATED									
	PYRITE ALL THRU.									

Gold not deducted:

Charges $ 1.50

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date MAY 23 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc. Box 904 City

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6039	1101 DRIFT AT 71'-5½' W.	Trace	9.6	1.6		2.4				
6040	1101 DRIFT AT 84'-5½' W.	Trace	1.6	0.4		1.4				
6041	1101-DRIFT AT 88'- 5½' W.	0.005	0.8	0.8		0.5				

Gold not deducted:.....

Charges $ 13.50

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date MAY 19 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc. B-6904

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6043	20" ON VEIN - HANGING WALL SIDE AT 71'- N. 101-DR	Trace	21.8	1.6		1.9				

Gold not deducted:.....

Charges $ 4.50

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date MAY 7 - 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Miner Inc. Box 904 City MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6038	FACE DRIFT - 101 AT	Trace	4.4	1.0						
	71 FT FROM X CUT									
	5½ FT. WIDE									
	(SEE "B-6038")									
	FOR ZN. ON									
	THIS SAMPLE.									

Gold not deducted:.....

Charges $ 3.00

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

RECEIVED
JUN 20 1955

TEL. 628
P. O. BOX 537

Date MAY 14 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mines Inc. | Box 904 | MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
4037	SPECIMEN TAKEN	Trace	76.4	3.2		1.2				
	SPLIT FROM SPE.									
	LEFT AT MINE									
	TO COMPARE ORE									
	BEING SORTED									
	FROM CARS									
	FOR SHIPPING.									

Corrected assay

Gold not deducted:.....

Charges $ 4.00

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

RECEIVED
JUN 20 1955

Helena, Montana
June 6, 1955

D. M. E. A.
1201 N. Division St.
Spokane, Washington

Re: Boss Mines, Inc.
545 North Rodney
Helena, Montana
Docket DMEA 3548
Contract IDM E 743

Gentlemen:

In the month of May, we have taken credit for the five feet that was run in the crosscut the last day of April.

The 101 north drift was extended to 101 feet to the north, where it became lean and very little mineral showing. The vein structure is still true and strong and shows bands of barite indicating there may be a good chance for ore ahead. We also put in a crosscut to the west, 15 feet to explore the stringers that had taken off from the vein.

We shot out approximately 15 feet on the south side of the crosscut where the vein crosses to the south but as it did not show strong at that point, we went no farther.

We now propose to drift south on the vein which is on contact of dike at approximately 380 feet from starting point.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt, President

CLH/lj

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

May 16, 1955

Memorandum

To: DMEA Field Team, Region I, Northwest District

From: James J. Quinlan and Donald F. Kellum, Geologists, U. S. Geological Survey

Subject: Docket No. DMEA-3548 (lead-zinc), Interim inspection, Boss Mines, Inc., Boss and Atlantus claims, Cascade County, Montana, Contract No. Idm-E743

The Boss and Atlantus property was inspected April 8, 1955, in company with Mr. C. L. Hewitt, president of Boss Mines, Inc. This inspection was made after Mr. Hewitt had phoned this office to advise that the crosscutting approved by the Field Team had been completed. During the phone conversation Mr. Hewitt was advised that until someone could inspect the recent work it would be permissible to drift a few rounds north on the vein encounter 25 to 55 feet north of the station USGS-2 (see attached map).

At the time of the inspection the main crosscut had been extended to a point 212 feet southeast of station USBM-411. This represents an advance of 209 feet since our last inspection, January 28, 1955, and a total advance of 361 feet under the contract. In addition several rounds had been taken along the vein exposed 25 to 55 feet southeast of station USGS-2.

With the exception of the last 30 feet the wall rock of the crosscut is the same as before; i.e., predominantly gray feldspar-quartz-biotite gneiss. The gneissic banding strikes approximately parallel to the crosscut and dips vertically. The last 30 feet of the crosscut is within a rhyolite porphyry dike. The width of this dike is not known as the crosscut does not pass through it. The hanging wall of the dike strikes N. 30° W. and dips 60°-65° SW.

Crosscutting since the last inspection has disclosed two promising vein structures and several veinlets (see attached geologic sketch map). The first of the promising structures,

58 to 78 feet southeast of survey station USBM 411, consists of three vein stringers within a bleached zone 20 feet wide (see attached map). The distance between the hanging wall and footwall stringers is about 13 feet. The individual stringers strike N. 5-20° E. and dip west at moderate to steep angles. The average width of individual stringers ranges from 0.25 to 0.9 foot. Tabulated below are the assay results of samples taken across these three stringers on the south wall of the crosscut.

Sample No.	Stringer	Width (ft)	Au (oz.)	Ag (oz.)	Pb (%)	Zn (%)	Cu (%)
180	F. W.	0.9	Tr.	2.7	4.3	7.4	None
181	Middle	0.25	Tr.	2.3	3.0	13.0	None
182	H. W.	0.5	Tr.	22.2	8.0	25.4	None

The second promising vein structure encountered is in the immediate hanging wall of the rhyolite dike. On the south wall of the crosscut this structure is about 5 feet wide, but on the north wall it is only 3 feet wide. This difference in width appears to be due to a difference in strike between the wall of the dike and the vein. It will be recalled that the wall of the dike strikes N. 30° W. and dips 60-65° SW., whereas individual bands within the vein strike about north and dip 65° west; thus it appears that the two structures may be independent of each other, and it is only happenstance that the crosscut cut through at their intersection. Drifting to the south on the vein should, however, clarify the structural relationship between the dike and the vein.

In the south wall of the crosscut four distinct bands of the second promising vein were recognized and sampled. Tabulated below is a brief description of the bands and the assay results.

Sample No.	Description of band	Width (ft)	Au (oz.)	Ag (oz.)	Pb (%)	Zn (%)	Cu (%)
175	F. W. band--dominantly pinkish colored carbonate with minor sulfides	1.9	Tr.	5.6	0.3	4.2	None
177	Dominantly altered wall rock, some vein material	0.6	Tr.	2.0	0.4	1.4	None
178	Sulfide and gray gouge band	0.6	0.02	11.4	0.5	5.3	None
179	Dominantly quartz	2.0	Tr.	0.4	0.3	1.4	None

The weighted average grade of these four samples is trace gold, 3.8 ounces silver, 0.3 percent lead, 2.9 percent zinc, and no copper.

In addition to the two promising vein structures described above it will be recalled that a strong vein was also cut 25 to 55 feet southeast of station USGS 2 (see attached map and Kellum and Quinlan's inspection memorandum of March 3, 1955). It is along this structure that the drift north was started after Mr. Hewitt phoned to advise crosscutting had been completed. This drift was started a few feet southeast of where it should have been, and it will be necessary to slab the west wall of it to get back on the structure. The operator plans to do this so as to get back on the vein as soon as possible.

Undoubtedly all three promising vein structures merit some drifting, but to start with it appears that it will be best to continue with the drift north on the vein 25 to 55 feet southeast of station USGS-2. This structure is considered to be the best of the three promising veins encountered in the crosscut; however, because it is cut by numerous faults, it may be difficult to follow. It was agreed with Mr. Hewitt, subject to Field Team approval, that it would be best to continue this drift 50 to 100 feet north before other drifting is considered. Mr. Hewitt was advised to notify this office after 50 feet of drifting had been completed if he had difficulty following the vein because of faulting and, in any event, to notify this office after 100 feet of drifting had been completed so that a decision concerning additional work could be made.

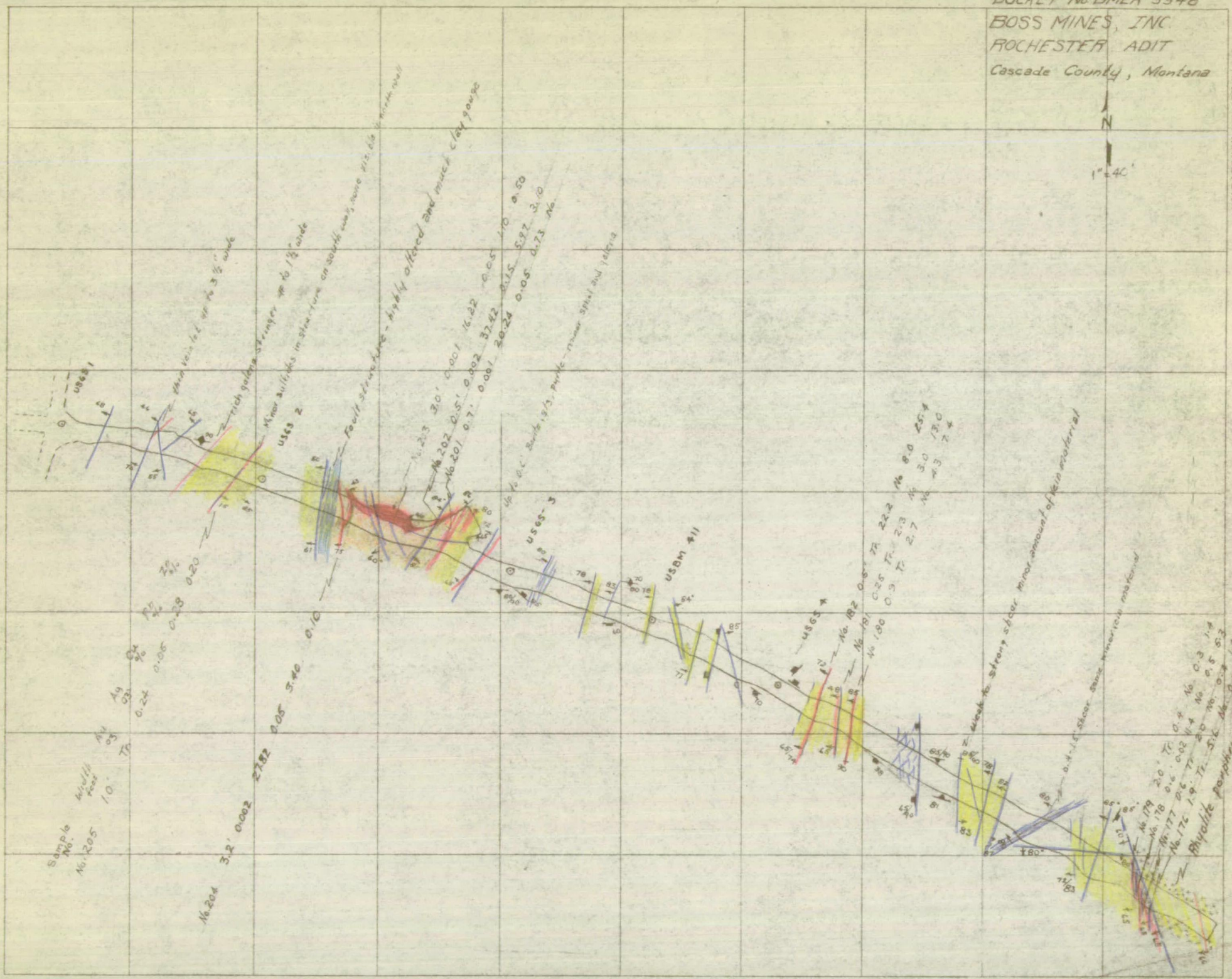
Distribution:
DMEA (Orig. & 3)
USBM (2)
USBM (AD)
Docket
Quinlan
Kellum

DOCKET No. DMEA 3548

BOSS MINES, INC.
ROCHESTER ADIT
Cascade County, Montana

N

1" = 40'



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

(Rev.)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 13 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1955 Docket No. DMEA 3548 Contract No. IDM E 743
Operator's Name Boss Mines, Inc. Minerals Lead Zinc
Address 545 N. Rodney, Helena, Montana
Contract Amount, $ Government Participation: % Amount, $

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						5/18/55 J.M.C.
Drilling						
Bulldozing						
Crosscutting		10767.00	10767.00		10767.00	10767.00
Drifting	2430.00		2430.00	2430.00	— o —	2430.00
(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	15.00	27.00	42.00	15.00	27.00	42.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2445.00	10767.00	13239.00	2445.00	10767.00	13212.00

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

Date May 1, 1955 *Payee Boss Mines, Inc.

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:

$ 1222 50

Signature MGP
(Authorized Certifying Officer)

Date 5-10-55 Vou. No. 1505

(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. E743 in accordance with the terms of the contract.

Signature 1st Gideon A. Adell Title Mining Engr Date 5-6-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Stephen W. Zoldok Title Mining Engr Date 5-9-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 13 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1955 Docket No. DMEA 3548 Contract No. IDM E 743

Operator's Name Boss Mines, Inc. Minerals Lead Zinc

Address 545 N. Rodney, Helena, Montana

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	ft.	2430	81	2430.00	81			
Crosscutting	ft.	0	0	10767.00	358	30.00	650	30.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	1	15	4	42.00	13	3.23	100	3.50
TOTAL DISTRIBUTED COSTS		2445.00						TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2445.00		~~13239.00~~ 13212.00				24,146.00

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.

REMARKS:

Date May 1, 1955 Operator Boss Mines, Inc.

Per C. Hewitt 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.

(Instructions on reverse)

(For Government use only)

/s/ R a Apell

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

May 1, 1955

D. M. E. A.
1201 N. Division St.
Spokane, Washington

Boss Mines, Inc.
545 N. Rodney St.
Helena, Montana
Docket DMEA 3548
Contract # IDM E 743

Gentlemen:

In the month of April, we continued the crosscut one round, approximately 5 feet. This was in excess of the footage authorized for crosscutting so is not included in report. This last round cut into a strong dike cutting across our course in a northeast direction, dipping westerly. The local miners who worked in the Rochester tunnel and also in the Hartley mine, say that the rock formation is always badly broken on the hanging wall side of this dike but that the formation on the foot wall side, or east, is not disturbed.

We have driven north on the vein structure which we call 101 and is about 125 feet from point where our cross cut was started. We have gone ahead 81 feet and also run several holes in the wall of the drift. The vein is shattered and irregular but seems to be in better ground now. It is about 3 feet in width with more zinc showing than there was near the main crosscut. However, the lead is showing fairly good.

We will do more sampling and assaying when it becomes regular. We propose to continue this work 50 feet and then decide whether it is worth while to go farther.

Yours very truly,
BOSS MINES, INC.

C. L. Hewitt, Pres.

CLH/ij

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date APR 23 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bros Mining Dev. Co. Bed 904 City

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6037	GRAB SAMPLE FROM	0.02	115.2	8.6	0.1	8.5				
	12 TON ORE PILE									
	TAKEN FROM 101									
	DRIFT IN MAKING									
	TURN TO START									
	DRIFT.									

Gold not deducted:.....

Charges $ 6.00

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 13 1955

Date APR 11 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bow Mines Inc. Box 904 City

MARKS:

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6034	101' VEIN IN DRIFT	0.01	57.8	13.8	SECOND ROUND (10 FT)				FROM	SWITCH.
6035	" " " "	0.005	101.6	23.0	"	"		"	"	"
					12" ON E. SIDE			DRIFT		

Gold not deducted:.....

Charges $ 6.00

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date APR 16 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Bro Mines Inc. MARKS: Prospect Pit

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6036	101" VEIN ON	Trace	34.2	3.2						
	SOUTH SIDE									
	X CUT.									
	36" WIDE									

Gold not deducted:.....

Charges $ 3.00

GOODALL BROS.

By A. V. Trent

NPCo. C-2419

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

1201 N. Division St.
Spokane 2, Washington
April 27, 1955

Defense Minerals Administration
RECEIVED
MAY 12 1955

3 mem

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: John D. Bardill, G. A. Apell, E. C. Pattee, Bureau of Mines Engineers, Region I

Subject: Routine inspection report, Docket No. DMEA 3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743

A routine inspection was made of this project on April 20, 1955 by the above-named Bureau of Mines engineers, accompanied by Mr. C. L. Hewitt, president of the company.

The main crosscut had been driven 403 feet from the starting point of the contract. The lens of ore that had been exposed between 78 and 112 feet from the starting point had been slabbed off when the drift was started on the vein. The drift had been driven N. 48° E. for a distance of 39 feet on a slip. The vein had turned into the wall so that the direction will be changed to follow the vein.

A narrow second vein was cut at Sta. BM 462 consisting principally of lead and zinc sulphides. A third vein of decomposed limestone with minor amounts of sulphides about 2.1 feet thick was encountered in the face of the crosscut on the top of a rhyolite dike.

The Operator plans to continue the drift northeastward for the present.

Samples were taken of the three veins. ~~See attached sketch for location of samples.~~ attached

Sample	Location	Width	Oz. Ag	% Pb	% Zn
JDB 2-2	At BM 462	3.5'	101.0	3.0	14.7
JDB 2-3	BM 462 + 64'	0.4	21.0	17.2	33.7
JDB 2-4	BM 411 + 212'	2.1	2.4	0.4	3.5

A Brunton compass tape survey was made of the new contract work and the following measurements recorded.

Starting point of contract at BM 448

BM 448 - BM 462	S 72° E	111.2 feet
BM 462 - BM 411	S 67° E	79.7 "
BM 411 - X-cut face	S 62° E	212.0 "
BM 462 - face of drift	N 48° E	39.0 "

Following is the status of the contract work at the time of inspection on April 20, 1955:

	Authorized	Completed
Fixed unit costs		
Rehabilitation of Rochester adit	540 feet	*
Crosscutting and drifting	650 "	439.4
Timbering adit and drifts	100 "	none
Scheduled actual costs		
Bulldozing road and adit portal site	$200.00	*
Professional personal services	$500.00	none
Compressor and tool house	$450.00	*
Sampling and assaying	$350.00	$27.00

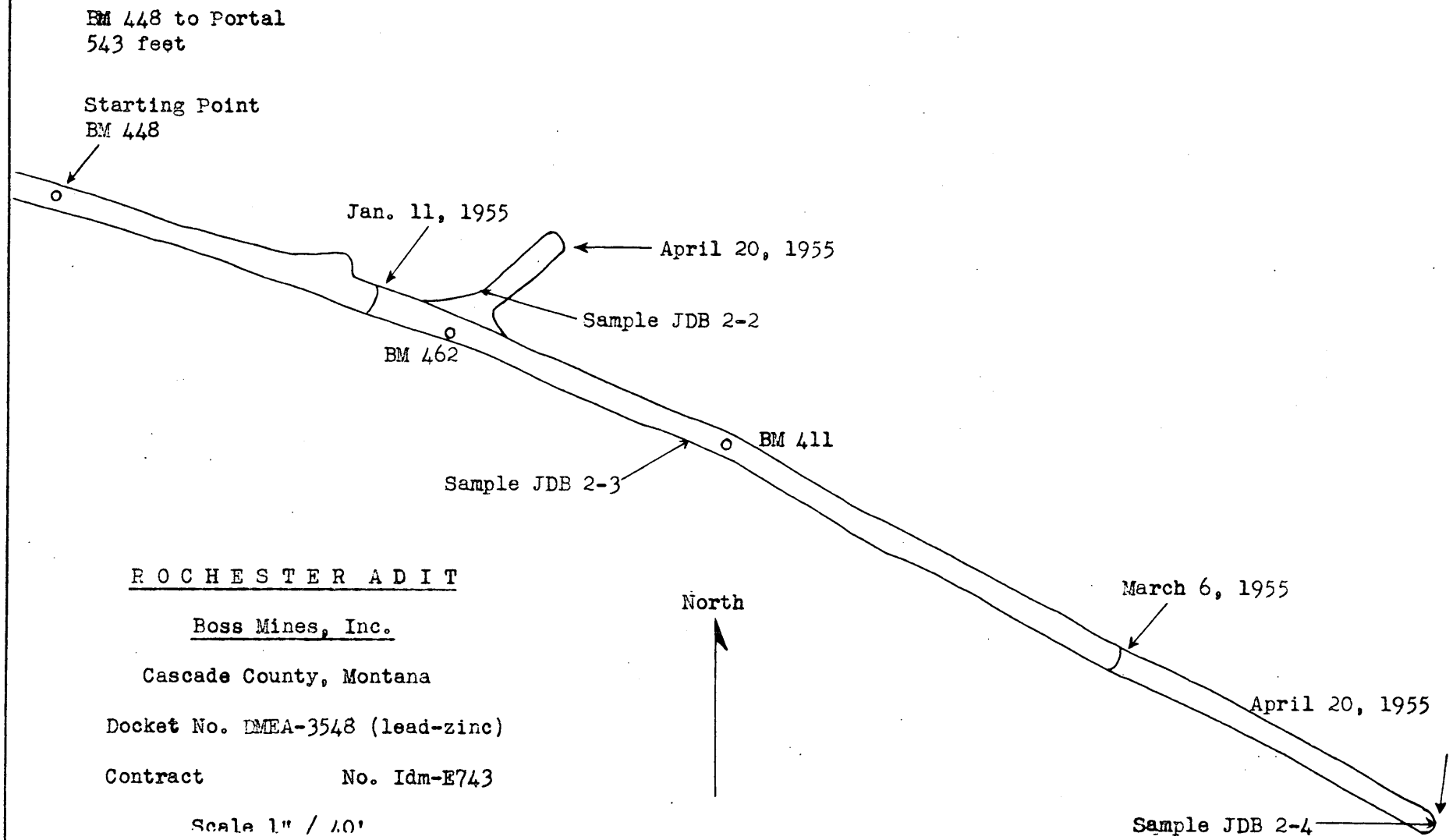
*These items were disallowed because the work was completed prior to the effective date of the contract.

Government participation in work cost is 50 percent.

Completion date is December 7, 1955, which is 12 months from the effective date of the contract.

John D. Bardill

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



ROCHESTER ADIT

Boss Mines, Inc.

Cascade County, Montana

Docket No. DMEA-3548 (lead-zinc)

Contract No. Idm-E743

Scale 1" / 40'

J.D.B.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECE
MAY 12 1955

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

1201 N. Division St.
Spokane 2, Washington
April 6, 1955

Defense Minerals Administration
RECEIVED
APR 22 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA 3548 (lead-zinc) Boss Mines, Inc., Boss and Atlantus claims, Cascade County, Montana, Contract No. Idm-E743

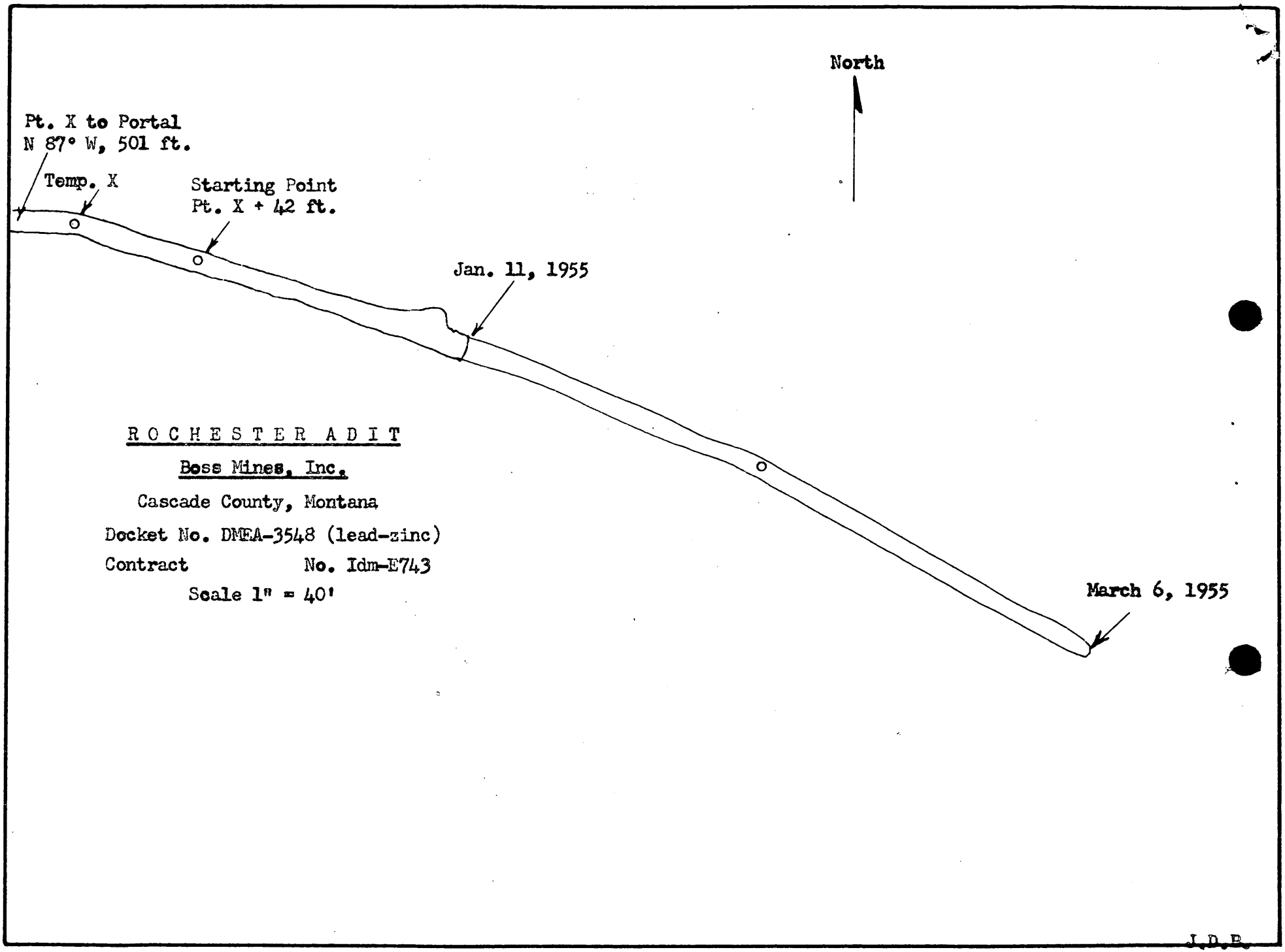
This project was inspected on March 6, accompanied by Mr. Hewitt, Jr., son of the company president.

The crosscut had been advanced a total of 309 feet from the starting point toward the Boss veins. At the time, Hewitt thought that the crosscut was in the vicinity of the downward projection of the veins.

See attached sketch map.

John D. Bardill

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


North
Pt. X to Portal
N 87° W, 501 ft.
Temp. X
Starting Point
Pt. X + 42 ft.
Jan. 11, 1955
March 6, 1955
ROCHESTER ADIT
Boss Mines, Inc.
Cascade County, Montana
Docket No. DMEA-3548 (lead-zinc)
Contract No. Idm-E743
Scale 1" = 40'
J.D.B.

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
RECEIVED
APR 12 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March 1955 Docket No. DMEA Contract No. IDM E 743
Operator's Name Boss Mines, Inc. Minerals Lead - Zinc
Address 545 North Rodney, Helena, Montana
Contract Amount, $ 24,146.00 Government Participation: 50 % Amount, $ 12,073.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting	3450.00	7290.00	10,740.00	3450.00	7290.00	10740.00
Drifting						
						4/14/55 J.W.B.
(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		27.00	27.00		27.00	27.00
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3450.00	7317.00	10,767.00	3450.00	7317.00	10767.00

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

Date April 5, 1955 Payee Boss Mines, Inc.

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:

$ 1725.00

Signature MOP
(Authorized Certifying Officer)

Date 4-8-55 Vou. No. 1474
(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. E743 in accordance with the terms of the contract.

Signature /s/ John D Bardill Title Metallurgist Date 4-7-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W Zoldok Title Mining Engr. Date 4-7-55

MONTHLY REPORT OF OPERATOR

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

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

Department of the Interior
Defense Minerals Administration
RECEIVED
APR 12 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1955 Docket No. DMEA _____ Contract No. IDM E 743

Operator's Name Boss Mines, Inc. Minerals Lead - Zinc

Address 545 North Rodney, Helena, Montana

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	Ft.	3450	115	10,740	358	30.00	650	30.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	1	none	none	27	9	3.50	100	3.50
TOTAL DISTRIBUTED COSTS		3450.00		10,767.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		3450.00		10,767.00				24146.00

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 April 5, 1956 Operator Boss Mines, Inc.

Per [signature] Title President

REMARKS:

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

(Instructions on reverse)

(For Government use only)

/s/ John D Bardill

INSTRUCTIONS

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

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

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

GPO 872894

April 5, 1955

D. M. E. A.
1201 North Division St.
Spokane, Washington

Boss Mines, Inc.
545 North Rodney St.,
Helena, Montana
Docket DMEA 3548
Contract #IDM E 743

Gentlemen:

Through the month of March we have extended the crosscut a distance of 115 feet, reaching a point 400 feet from our starting point.

There have been several small stringers cut, but nothing of any importance. Several small faults have shown up and the formation is quite badly broken up with the exception of the last 25 feet which is hard and solid again.

There is no indication of the large vein for which we are driving although, we are 90 feet ahead of where it should have been entered.

Mr. Quinlan planned on coming over for inspection and to map the geology this week but road conditions due to heavy snow and blizzard conditions have made it impossible to get to the mine, even to Neihart. We expect to have this condition cleared up soon now and I will advise him by phone when he can get in, as we are very anxious to have his opinion on the proper move to make now.

Yours very truly,

C. L. Hewitt, Pres.
BOSS MINES, INC.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

March 3, 1955

Memorandum

To: DMEA Field Team, Region I, Northwest District

From: Donald F. Kellum and James J. Quinlan, Geologists, U. S. Geological Survey

Subject: Interim Inspection, Docket No. DMEA-3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract No. Idm-E743.

The Boss and Atlantus property was examined on January 28, 1955, marking the first visit by Survey personnel since the beginning of project work.

The Rochester adit has been advanced on bearing S. 70° E. to a point 202 feet southeast of the easternmost drift in the old Rochester workings. This represents an advance of 152 feet under the contract. The wall rock in the new portion of the crosscut consists of a gray feldspar-quartz-biotite gneiss (with minor amounts chlorite, epidote, and hornblende). The gneissic banding strikes approximately parallel to the crosscut and dips vertically; concordant and discordant replacement bodies of red potassium feldspar occur as small gneissic stringers, veinlets, and nebulous patches within the gray gneiss. Near veins and faults the gneiss has been hydrothermally altered. This alteration has destroyed the gneissic banding and lightened the color of the rock giving it a bleached appearance.

A sulfide vein, up to 3 feet wide, is exposed along the walls of the crosscut 30 to 55 feet southeast of Station No. 2 (see attached map). It is difficult to determine the attitude of this vein, where exposed, as this part of the crosscut is traversed by a number of faults. Details of this faulted condition are shown on the attached map. Three samples taken of the vein in this area are tabulated below and are also shown on the attached map.

Sample No.	Width	oz. Au	ozs. Ag	% Cu	% Pb	% Zn
202	0.5 ft.	0.002	37.42	0.15	5.97	3.10
203	3.0 ft.	0.001	16.22	0.05	1.10	0.50
204	3.2 ft.	0.002	27.82	0.05	3.40	0.10

In addition to the sulfide vein described above, the crosscut has also intersected several small veins or veinlets (see attached map). These structures generally strike N. 10-35° E. and dip steeply to the northwest. The strike of these smaller veins and veinlets is parallel to the principal vein systems of the district.

Dirty walls made detailed mapping of the crosscut difficult. The operator intends to install T-joints and valves in the crosscut water line at convenient intervals to aid in washing the walls during future inspections.

Attachment

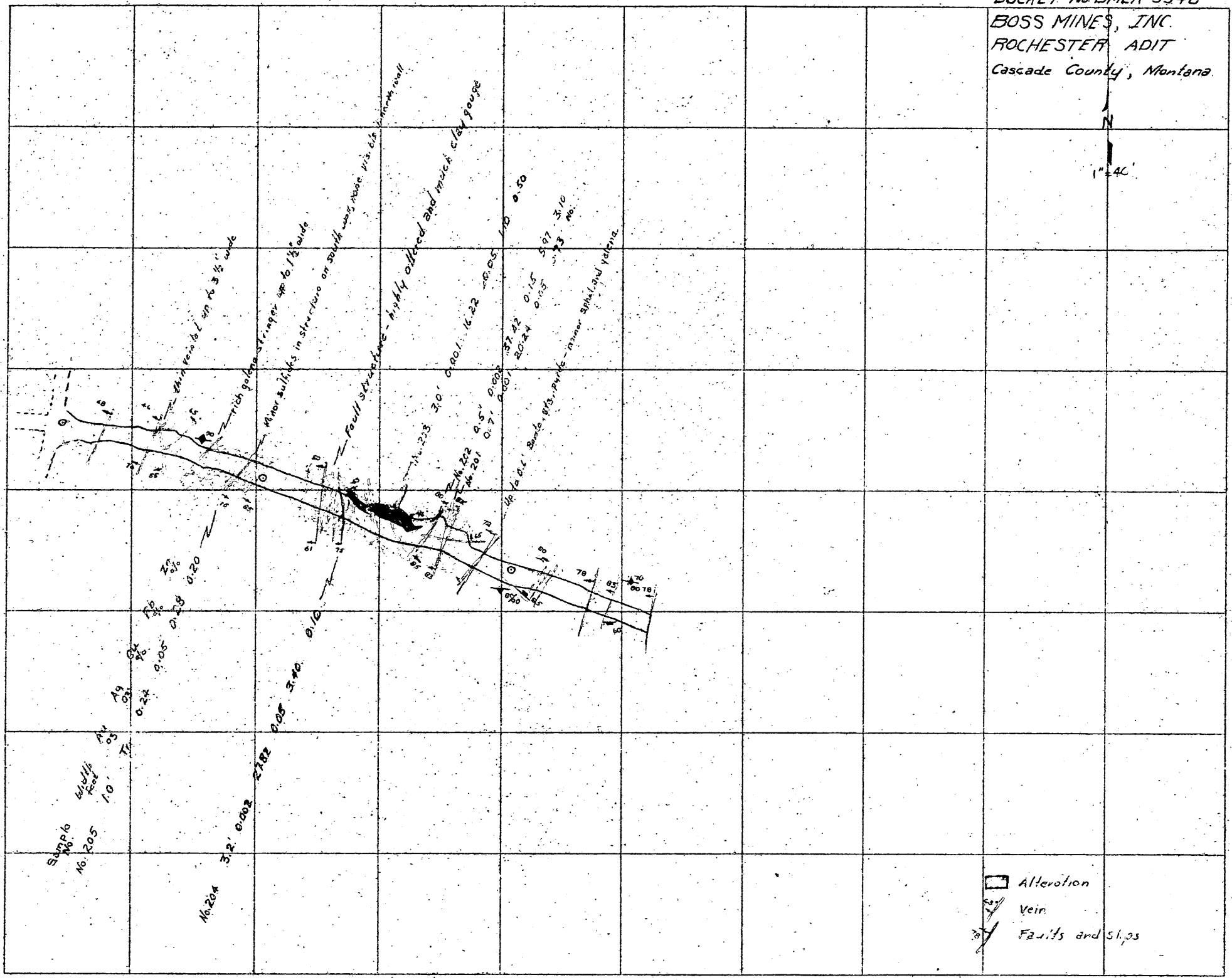
Distribution:
DMEA (orig. & 3)
USBM (2)
USBM(AD)
Docket
Quinlan

DOCKET No. DMEA 3548

BOSS MINES, INC.

ROCHESTER ADIT

Cascade County, Montana



"ALBANENE" No. 198M K&E CO., N.Y. REG. U.S. PAT. OFF.

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1955 Docket No. DMEA 3548 Contract No. IDM E 743
Operator's Name Boss Mines, Inc. Minerals Lead - Zinc
Address 545 N. Rodney St., Helena, Montana
Contract Amount, $ 24,146.00 Government Participation: 50 % Amount, $ 12,073.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						3/24/55 J.W.T.A.
Drilling						
Bulldozing						
Crosscutting	2550.00	4740	7290	2550.00	4740.00	7290.00
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	10.50	16.50	27.00	10.50	16.50	27.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2560.50	4756.50	7317.00	2560.50	4756.50	7317.00

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

Date Mar 2, 1955 *Payee Boss Mines, Inc.

Per O. Hewitt 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:

$ 1280.25

Signature M. P.
(Authorized Certifying Officer)

Date 3-17-55 Vou. No. 1458
(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. E743 in accordance with the terms of the contract.

Signature /S/ John D Bardell Title Metallurgist Date 3-16-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 3-16-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1955 Docket No. DMEA 3548 Contract No. IDM E 743

Operator's Name Ross Mines, Inc. Minerals Lead - Zinc

Address 545 N. Rodney St., Helena, Montana

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	ft	2550	85	7290.00	243		650	30.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	1	10.50	4	27.00	9	3.00	100	3.50
TOTAL DISTRIBUTED COSTS		2560.50		7317.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2560.50		7317.00				

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 Mar 2, 1955 Operator Ross Mines, Inc.

Per [signature] Title President

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

March 8,1933.

D.M.E.A.
1201 North Division St.
Spokane, Wash.

Deco Mines Inc. 345 E. Rodney St. Kalona Mont.
Docket DMEA 3348 Contract No. Idn. E 748
Lead- Zinc.

Gentlemen;-

Thru the month of Feb., we drove ahead on the Xcut, advancing a distance of 85 ft.
The formation has been a hard Gniess with intermittent sections of softer blocky rock, but not of it requiring timbering, so far.

At a point 250 ft from our starting point, we cut thru a small vein of high grade galena, which is aprox 3 " wide on the N side of Xcut and 10" on the S side. It is cutting across at N 30 E. and dipping 82' to the W.
About 11 ft beyond this vein, another fissure, which seems to be more of a water course, with aprox the same dip and strike above galena, but assays very low, see assay sheet.
The material between these small veins is slightly mineralized but also shows little in the assay of sample.
Beyond this section, the rock is hard and tight but has water spouting from small seams under considerable pressure.

We should cut into the large vein very soon now.

Yours very truly,

GL Hewitt

GL Hewitt, Pres.
Deco Mines Inc.

ENT,
-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

EL. 628
P. O. BOX 537

Date FEB 28 1955

UMPIRE ASSAY..... CONTROL ASSAY..... HAND SAMPLE.....

ASSAYED FOR: Boss Mining Inc.

MARKS: Box 904

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6030	12 VEIN 267 FT. FROM START POINT	Trace	4.0	1.4	STRIKE N.20 W.			DIP-	W 82°	
6031	8 " 256 " " " "	0.01	33.6	21.0	"		"	"	"	"
6032	10 FT. FILLING BETWEEN 6030 6031	Trace	0.6	0.2						
6033	BRONZ COLORED PYRITES	Trace	2.8							
				IN SAMPLE 6030 - SAID BY ~~AA~~ LOCAL						
				MINER TO CARRY HIGH SILVER VAL.						

Gold not deducted:.....

Charges $ 10.50

GOODALL BROS.

By C. L. Trent

NPCo. C-2419

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

1201 N. Division St.
Spokane 2, Washington
February 17, 1955

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA 3548 (lead-zinc), Boss Mines, Inc., Boss and Atlantus Claims, Cascade County, Montana, Contract Idm-E743

This project was inspected January 11, 1955, accompanied by C. L. Hewitt, president of the company.

The contract work provides for a 25'x20' compressor-shop, rebuilding the road to the Rochester adit, bulldozing an adit portal, rehabilitating 540 feet of the Rochester adit, and not to exceed 650 feet of drifting and crosscutting.

Operator commenced work last summer prior to the effective date of the contract on December 7, 1954, and as a consequence is not entitled to reimbursement for work done before this date. The compressor-shop building had been constructed, the Rochester portal and adit had been rehabilitated, and 42 feet of crosscut driven by December 7. An electric power line had been constructed to the compressor house.

One hundred thirty-three feet of new crosscut had been driven at the time of the inspection.

An unexpected vein was exposed between 78 and 112 feet from the starting point. Operator reported that the average of five samples over an average width of 40 inches showed about 9 percent lead and 45 ounces of silver per ton. The vein dips about 35 degrees to the southwest and is cut off by a fault at 112 feet.

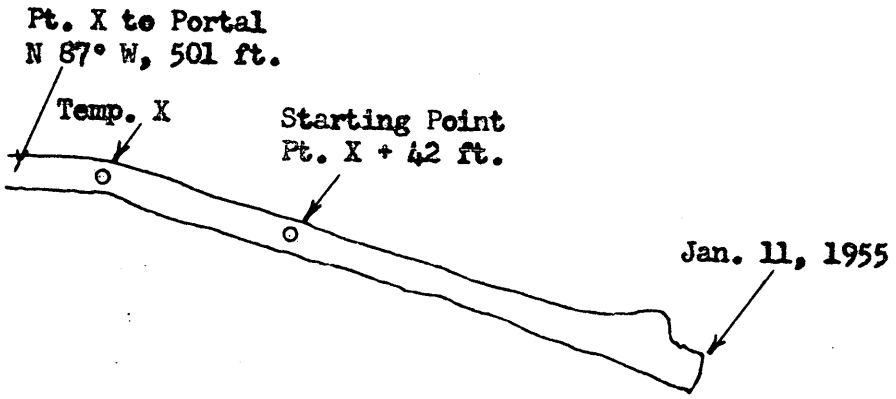
The work is being conducted in a minerlike manner.

See attached sketch of the new work.

John D. Bardill

John D. Bardill

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



ROCHESTER ADIT

Boss Mines, Inc.

Cascade County, Montana

Docket No. DMEA-3548 (lead-zinc)

Contract No. Idm-E743

Scale 1" = 40'

J.D.B.

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

Budget Bureau No. 42-R1036.5

DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
RECEIVED
FEB 14 1955

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

Month of January, 1955 Docket No. DMEA 3548 Contract No. IdmE-743
Operator's Name Boss Mines, Inc. Minerals Lead-Zinc
Address 545 N. Rodney St., Helena, Montana
Contract Amount, $ 24146.00 Government Participation: 50 % Amount, $ 12073.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						2/17/55
Drilling						
Bulldozing						
Crosscutting	2730	2010.00	4740	2730.00	2010.00	4740.00
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	3.00	13.50	16.50	3.00	13.50	16.50
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2733	2023.50	4756.50	2733.00	2023.50	4756.50

I certify that the above bill is correct and just and that payment therefor has not been received.
Date February 2, 1955 Payee Boss Mines, Inc.
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:

$ 1366.50

Signature [signature]
(Authorized Certifying Officer)

Date 2/10/55 Vou. No. 1432
(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. E74-2 in accordance with the terms of the contract.

Signature /S/ John D. Barkill Title Metallurgist Date 2/4/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Foldok Title Mining Eng Date 2/4/55

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
FEB 14 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1955 Docket No. DMEA 3548 Contract No. Idm-E 743
Operator's Name Boss Mines, Inc. Minerals Lead-Zinc
Address 545 N. Rodney St., Helena, Montana

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	Ft.	2730	91	4740	158		650	30.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	1	3.00	1	16.50	5	3.30	100	3.50
TOTAL DISTRIBUTED COSTS		2733.00		4756.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2733		4756.50				

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

Date Feb. 2, 1955 Operator Boss Mines, Inc.

Per C. L. Hewitt 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

BOSS MINES, INC.

P. O. Box 904
HELENA, MONTANA

MINES:
NEIHART, MONTANA

PHONE 2275

DEPT. OF THE INTERIOR
Records Administration
RECEIVED
FEB 14 1955

RECEIVED
BUREAU OF MINES
FEB 4 - 1955
SPOKANE, WASH.

Feb. 2,1955.

Boss Mines Inc. 545 N. Rodney St, Helena,Mont.
Docket DMEA 3548 Contract No. Idm. E 743.
Lead, Zinc.

DMEA
1201 N. Division St.
Spokane 2, Wash.

Gentlemen;-

During the month of January,1955, we have advanced the Xcut into the Boss claim,a distance of 200 feet from starting point. This makes an advance of 91 ft for the month of January. The Gneiss formation is extremely hard,making the drilling somewhat slowe than average,but the greatest difficulty we are having is in breaking the rock. With 32 holes of five feet length,we can only pull 4 ft as an average. We are trying different patterns and getting a little improvement as we go along.
For the past 20 feet we have had a heavy flow of water from small seams and also from an eighteen inch fault which we have crossed. This fault was just shown up when Mr. Quinlan was there. There is no mineralization in the rock now but I estimate that we are near the 40 inch vein that shows on the surface. This will be the section of that vein from which the section we had in the drift was offset and turned.

We are taking a turn to the right,southerly,as recommended by Mr. Quinlan,and which is surely the logical thing to do now,that we have exposed the faulted section of that vein.
If Mr. Quinlan makes a map or report, I would greatly appreciate having a copy of both.
Everything is working nicely as we have ample compressed air now that we have electric power.
We also have a new drill and working the two machines in the heading now,thereby getting in more holes in less time.

Yours very truly,

C.L.Hewitt, Pres.
Boss Mines Inc.

A. V. TRENT,
Owner-Manager

GOODALL BROTHERS

ASSAYERS AND METALLURGICAL CHEMISTS

46 SO. MAIN ST., HELENA, MONTANA

TEL. 628
P. O. BOX 537

Date JAN 15 1955

UMPIRE ASSAY ..... CONTROL ASSAY ..... HAND SAMPLE .....

ASSAYED FOR: Bros Mine Inc. MARKS: [illegible]

Sample No.	DESCRIPTION	GOLD Ozs. Per Ton	SILVER Ozs. Per Ton	WET LEAD Per Cent	COPPER Per Cent	ZINC Per Cent	IRON Per Cent	INSOL. Per Cent	Per Cent	Total Value Per Ton
6029	3" STREAK OF ORE TURNING WITH FAULT WHERE VEIN LAST SHOWS IN DRIFT. "B" VEIN	0.01	30.8	24.2						

Gold not deducted: .....

Charges $ 3.00

GOODALL BROS.

By [illegible]

NPCo. C-2419

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 1 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Dec., 1954 Docket No. DMEA 3548 Contract No. Idm E-743

Operator's Name Boss Mines Inc. Minerals Lead-Zinc

Address 545 North Rodney St., Helena, Montana.

Contract Amount, $4146.00 Government Participation: 50 % Amount, $12073.20

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						Betty
Drilling						
Bulldozing						
Crosscutting	2010.00	-0-	2010.00	2010.00	-0-	2010.00
Drifting						
						2/3/55 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	13.50	-0-	13.50	13.50	-0-	13.50
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2023.50	-0-	2023.50	2023.50	-0-	2023.50

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

Date Jan. 21, 1955 *Payee Boss Mines Inc.

Per C. H. Heverill Title Pres.

*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:

$ 1011.75

Signature M. O. P.
(Authorized Certifying Officer)

Date 1-28-55 Vou. No. 1422
(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. E74-3 in accordance with the terms of the contract.

Signature /S/ John D. Bardill Title Metallurgist Date 1/25/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldak Title Mining Engr. Date 1/26/55

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 M[illegible]A
(Apr[illegible])

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 1 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Dec. 1954 Docket No. DMEA 3548 Contract No. Idm-E 743
Operator's Name Boss Mines Inc Minerals Lead -Zinc.
Address 545 North Rodney St. Helena, Montana.

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	Ft.	2010.00	67	2010.00	67		650	30.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assays	1	1350	4	13.50	4	3.375	100	3.50
TOTAL DISTRIBUTED COSTS		2033.50						TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2033.50						

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

Date Jan. 21, 1955 Operator Boss Mines Inc.

Per C. L. Heerdt Title Pres.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 1 1955

Boss Mines Inc. 545 N. Rodney St. Helena Montana.

Docket DMEA 3548 Contract No Idm-B 743

Lead-Zinc.

Gentlemen;-

Commencing with the Dec 7th 1954 point which is 42 ft ahead of our original starting point in the Rochester Adit, the Gneiss is of medium hardness, stands well and has considerable water in the seams. Several small seams of Galena were cut, varying in thickness from one inch to four inches dipping about 10' from vertical to the west. The Gneiss is mixed with Spar which is in close contact with the Galena streaks.

At a point aprox 85 ft from starting point, a strong vein was cut which strikes S 53 E being only 30' off the course of our Xcut. This vein shows in the Xcut for aprox 25 ft and is from 3 ft to 4 ft in thickness dipping to the south about 35'. The dip can not be determined until some work is done on the vein. The average value of the vein filling is about 40 oz Ag and 12% Pb. A small fault seems to cut the vein off at 110 ft from our starting point. The rock turned much harder after the vein was cut off.
The Xcut is now in extremely hard Gneiss which is not only hard to drill but very hard to break. We are only getting about three and one half feet to a five foot hole round using 32 holes.
We have some 60% powder comming which we hope will help the breaking.

We hope to see Mr Quinlan over here soon and get his ideas as to the geology as exposed in the Xcut.

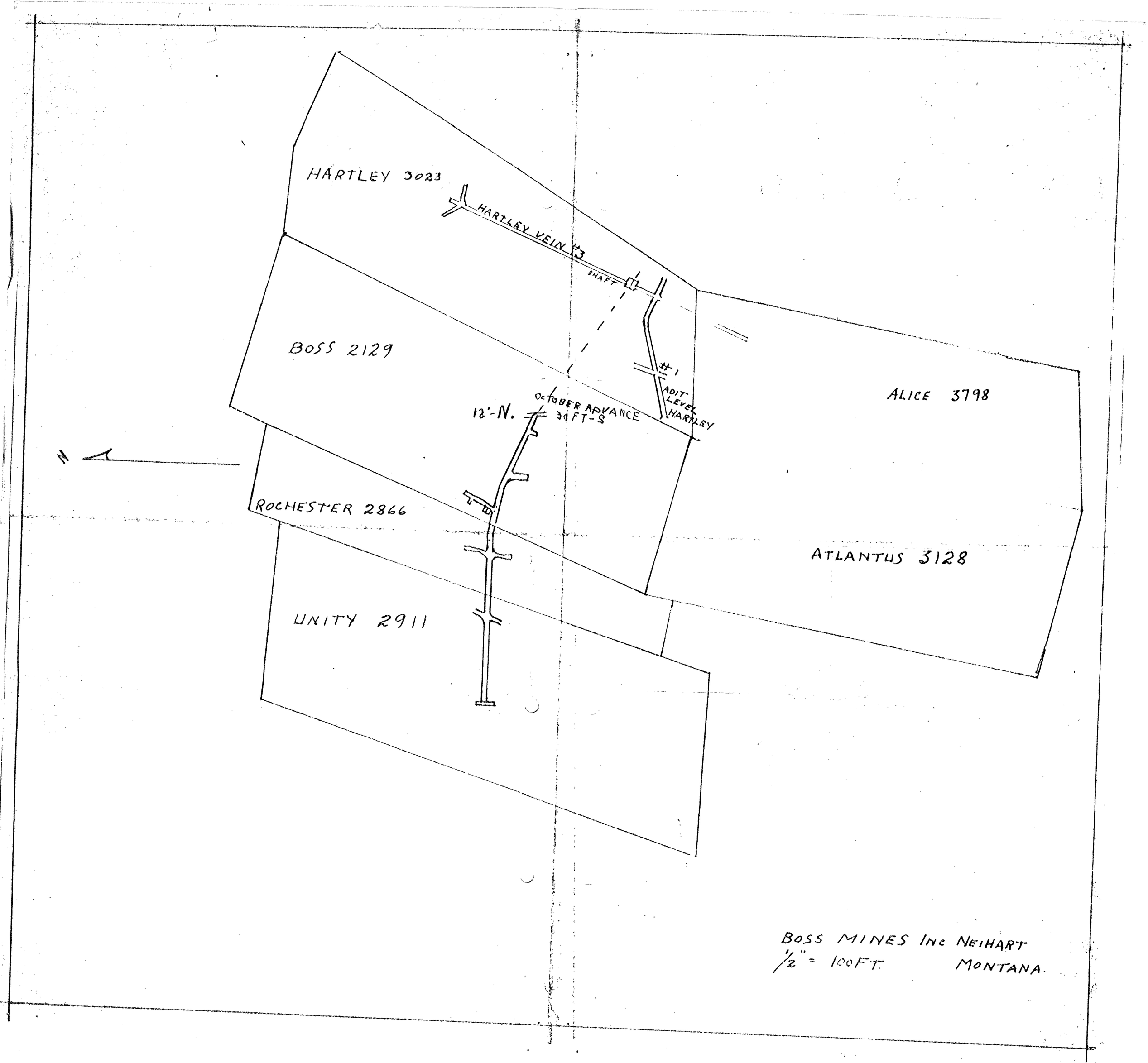
Yours very truly,

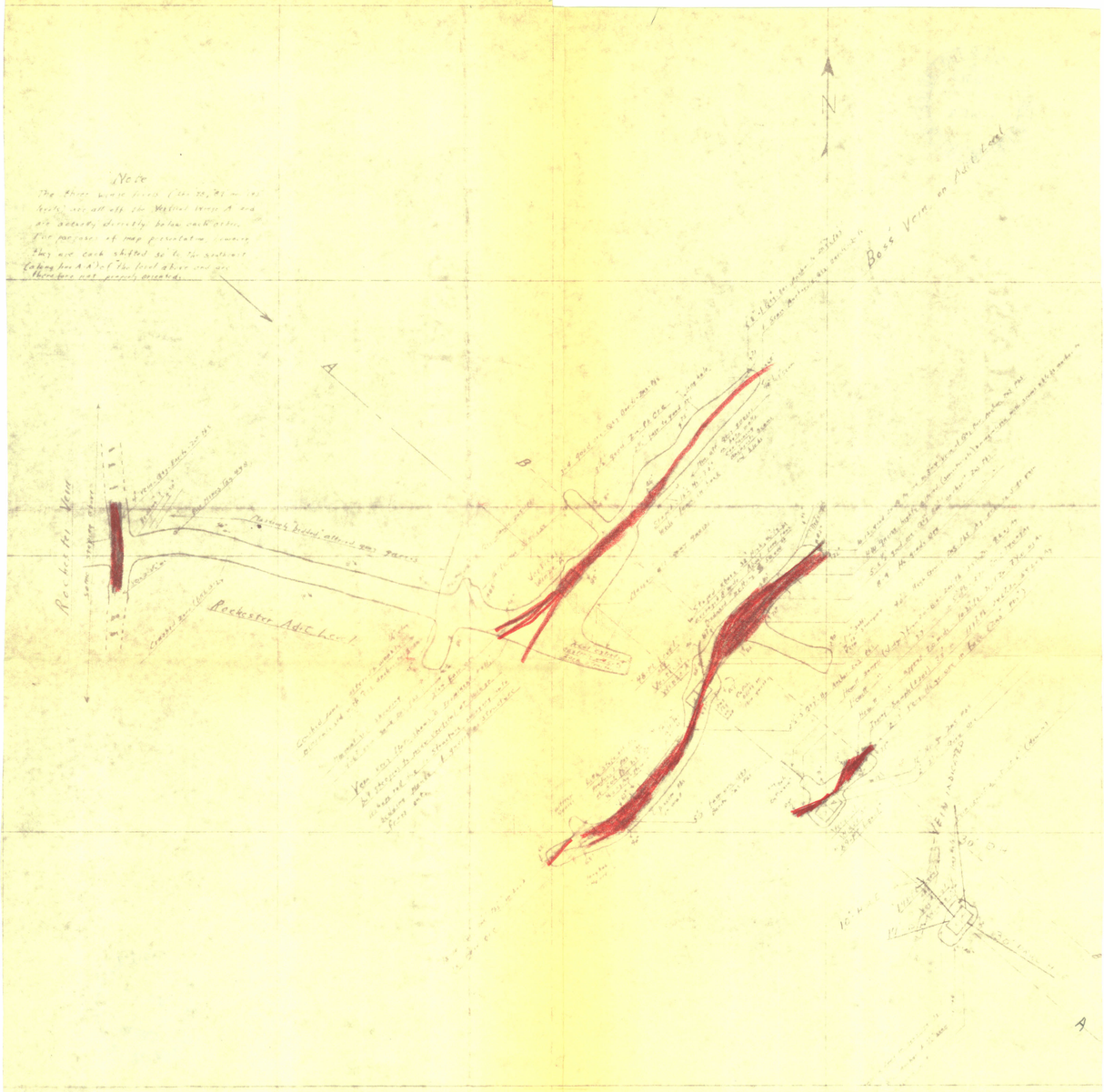
C. L. Hewitt

C.L. Hewitt.

Jan 14-1955

RECEIVED
JAN 17 1955
U.S.G.S.
SPOKANE WASH.


HARTLEY 3023
HARTLEY VEIN #3
SHAFT
BOSS 2129
#1
ADIT LEVEL HARTLEY
ALICE 3798
OCTOBER ADVANCE
12'-N.
30 FT-S
N
ROCHESTER 2866
ATLANTUS 3128
UNITY 2911
BOSS MINES Inc NEIHART
1/2" = 100FT.
MONTANA.



Composite Geologic Plan Map

of the

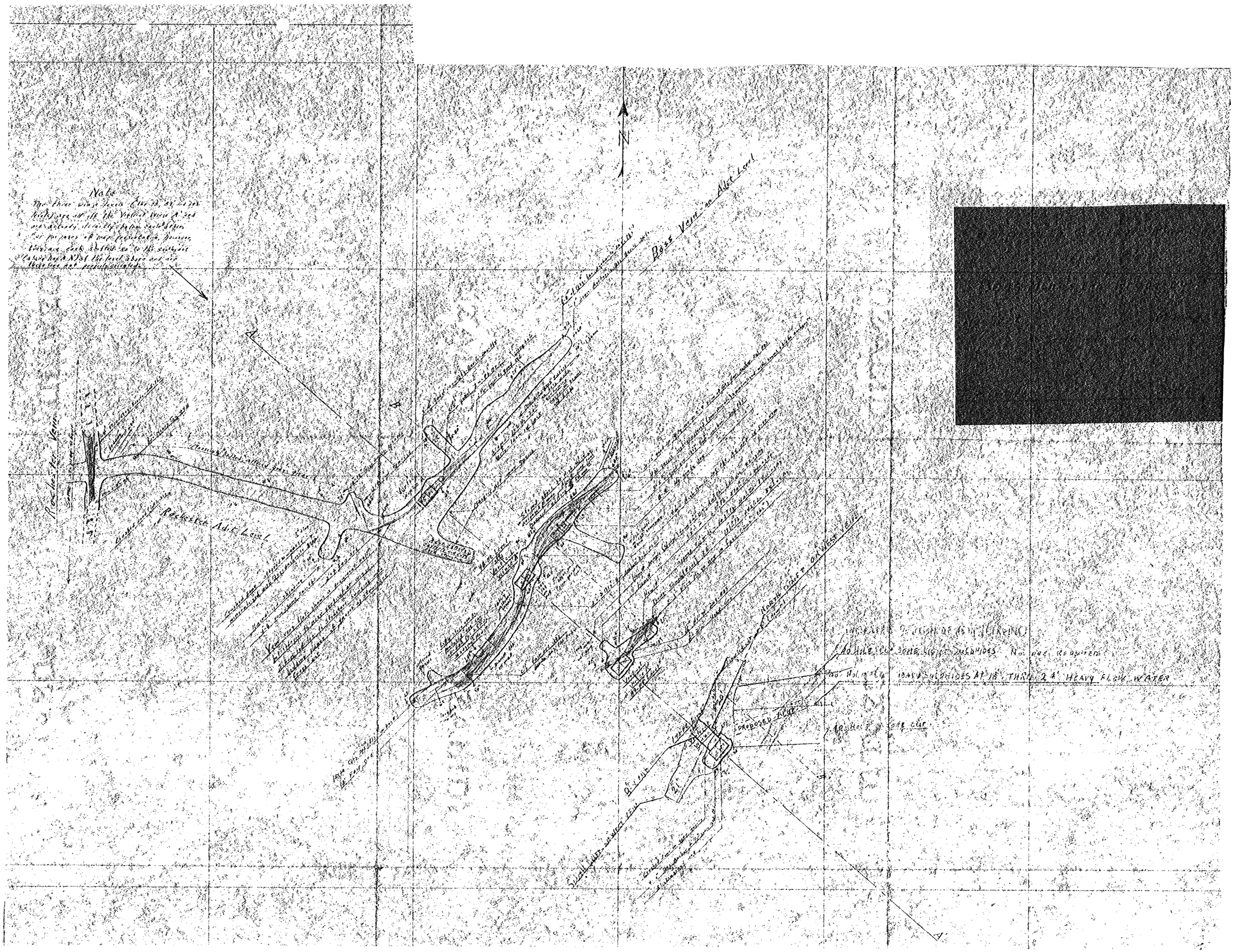
Boss Mines, Inc. Property

Neihart Montana

Scale – 1" = 20'

by

T. G. Irving December 1956


N
Note
Rockies Adit Level
Boss Vein on Adit Level
North Drift on West Vein
Proposed Adit
Heavy Flow Water