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

March 3, 1958

3/27	C	220
27	Com	100
"		110
3/28		200
	WSM	400

MEMORANDUM

To: DMEA Field Team, Region I

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

Subject: Final inspection report, Docket No. DMEA-2874 (manganese) Umont Mining, Inc., Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604 (Amended)

The final inspection of the project was made on January 20, 1958, accompanied by Messrs. W. C. Prinz, geologist, U. S. Geological Survey, and Wilbur Criswell, resident manager, Umont Mining, Inc.

Remeasurements were made of the 400L rehabilitated crosscut north from the shaft to the Norwich vein and the drifting easterly on the Norwich vein. Since the company exceeded the drifting westerly on the Norwich vein the distance was not remeasured.

The remeasurement of the XCN, from the shaft timber to the end of rehabilitation, totaled 250 feet. Allowing for a shaft station length of 50 feet (see Description of Work, Exhibit A of the contract) the voucherable rehabilitation totals 200 feet (auth. 240 feet). The previous measurement totaling 198 feet probably did not take into consideration the full length along the center of track and complete rehabilitation beyond the intersection with the Norwich vein.

The remeasurement of the DE, from the east wall of the XCN, totaled 244 feet; this includes the 36-foot stub drift bearing N. 37° E. from the east drift at about 25 feet from the start of the east drift. The DE and DNE (stub) were timbered to within 3 feet of the combined lengths, or a total of 241 feet of drift timbering (12x12).

The stopes west of the 4-486 raise, between the 400 and 300 levels were examined. Entry was through the 4-486 raise which started in the Little Sarah claim on the 400L and ended in the Norwich claim at the 300L. All of the stoped ground east and west of the 4-486 raise, except for the top three floors west, was filled with waste at the time of the examination. The width of the Norwich vein, third floor from the top, west of raise 4-486, was about three sets (18 feet) wide between

hanging wall and footwall; the width accounts for the large tonnage excluded from royalty payments coming from the Little Sarah vein in December 1957.

The stopes above the 400L DE were not examined because of inadequate ventilation; mining activity had been stopped in that area sometime in November 1957.

The Government claims no equity in property or equipment.

The project was certified under a prior contract.

Final status of Stages II and III of the contract is as follows. This final inspection report supplements the final inspection report of E. C. Pattee dated February 21, 1956 on Stage I of the prior contract.

Stage II	Authorized	Completed	Vouchered
Install facilities & equipment in Plutus shaft to 300L	$2,082.00	$10,501.62	$2,082.00
Rehab. Plutus shaft 300L to 410L and equip	3,148.00	7,217.00	3,148.00
Rehab. & enlarge 400 station	3,200 cu.ft.	4,850 cu.ft.	3,200 cu.ft.
Rehab. 400L XC to N vein	240 ft.	200 ft.	200 ft.
Dft westerly on N vein	150 ft.	150 ft.	150 ft.
Normal timbering		150 ft.	130 ft. *
Spiling		20 ft.	20 ft.
Dft easterly on N vein	400 ft.	244 ft.	241 ft.
Normal timbering		241 ft.	241 ft.
Total drifting	550 ft.	394 ft.	391 ft.
Total timbering - normal	550 ft.	391 ft.	371 ft. *
extra sets	100 ft.	none	none
spiling	50 ft.	20 ft.	20 ft.
Diamond drilling (underground)	420 ft.	86.5 ft.	86.5 ft.
Assaying	140 samples	61 samples	61 samples
Stage III			
Bulldozing	15 hrs.	7.5 hrs.	7.5 hrs.
Diamond drilling (surface)	1700 ft.	1138 ft.	1138 ft.

*20 feet normal timbering deducted to be paid at spiling rate.

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

John A. Bowsher

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

January 23, 1958

2-10 C 220
11 100
" 110
2/11 800
WSM 400

MEMORANDUM

To: DMEA Field Team, Region I

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

Subject: Final Geologic Inspection Report, Docket No. DMEA-2874 (Manganese), Umont Mining, Inc., Assignee, Plutus and Norwich claims, Silver Bow County, Montana, Amended Contract No. Idm-E604.

The 400-foot level and the stopes between the 400 and 300 levels in the western end of the Plutus mine were examined on January 20, 1958 accompanied by John A. Bowsher, Mining Engineer, U. S. Bureau of Mines, and Wilbur Criswell, Resident Manager. No DMEA work has been done since my last inspection on October 14, 1957. The Operator is continuing stoping operations in the west end of the mine and when completed, probably about February 10, 1958, the mine will be closed.

Plutus closing

Much of the recent stoping has been west of the Norwich claim, in the Little Sarah claim, where the ore is not subject to DMEA royality. The foot of the raise from which the Operator is mining this ore, the 4-486 raise, is in the Little Sarah claim; its head is in the Norwich claim about 3 feet east of the Norwich west end line (see Long Section with Operator's January Narrative Report). Royality has been paid on all ore from the raise and from the ground east of the raise even though the lower part of the raise is in the Little Sarah claim and ore from here could have been excluded from royality payment. The 3-foot sliver in the Norwich claim at the head of the raise will probably not be mined.

! ? Surveying to decide exact tonnage subject to royalty might have cost more than royalty payment

WSM 2/12/58

The ore body west of the 4-486 raise is up to three sets wide and is thus wider than it was in the Norwich claim to the east. The west end of the ore body is cut off by a fault which strikes north-northwest and which dips about 30° E. The Operator is mining to this fault and to his west end line (the west side of the Little Sarah claim). He has probed for the vein and for the ore body west of the fault but has been unsuccessful. Further exploration could be done here to locate the offset; however,

the Little Sarah claim is small and even if the ore body were found, the Operator would be out of his property within a short distance. Since the ore body is cut off to the west by this east-dipping fault and since its east boundary dips steeply to the west, the ore body will be expected to pinch out a short distance below the 400-foot level. Therefore, the indicated reserves below this level are small unless the ore can be located west of the fault.

On January 20, 1958, the Executive Officer, Region I, mailed copies of a Termination Agreement to the Operator for his signature. The Operator had requested that the contract be terminated in his letters of October 17, 1957 and January 16, 1958.

William C. Prinz

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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DATE		CODE
12/16	C	220
12/16	Com	100
12/18	WSY	400

November 20, 1957

MEMORANDUM

To: DMEA Field Team, Region I

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

Subject: Interim report, Docket No. DMEA-2874 (manganese), Umont Mining, Inc., Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604 (Amended)

Mr. R. Garwood, geologist, visited the Butte office on November 15. He stated that the Operator did not advance any work under the contract; therefore, a visit was not made to the property.

The Operator is mining ore from the east and west extension of the Norwich vein.

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-E604

Contract date: September 21, 1953
Termination date: January 1, 1958
Amount of contract: $106,010.70
Amount spent: 59,253.83 (thru August)

Stage II	Authorized	Completed	Vouchered
Install facilities & equipment in Plutus shaft to 300 L.	$2,082.00	$10,501.62	$2,082.00
Rehab. Plutus shaft 300-400 L.	3,148.00	7,217.00	3,148.00
Rehab. & enlarge 400 sta.	3,200 cu.ft.	4,850 cu.ft.	3,200 cu.ft.
Rehab. 400 L XC to N. vein	240 ft.	198 ft.	200 ft.
Drift westerly on N. vein	150 ft.	150 ft.	150 ft.
Normal timbering		150 ft.	130 ft. *
Spiling		20 ft.	20 ft.
Drift easterly on N. vein	400 ft.	244 ft.	241 ft.
Normal timbering		241 ft.	241 ft.
Total drifting	550 ft.	394 ft.	391 ft.
Total normal timber	550 ft.	391 ft.	371 ft. *
Extra "	100 ft.	none	none
Spiling	50 ft.	20 ft.	20 ft.
Underground drilling	420 ft.	86.5 ft.	86.5 ft.
Assays	140 samples	61 samples	61 samples
Stage III			
Bulldozing	15 hrs.	7.5 hrs.	7.5 hrs.
Surface drilling	1700 ft.	1138 ft.	1138 ft.

*20 feet normal timbering deducted to be paid at spiling rate.

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 7 1957

DATE	INITIALS	CODE
10/7	C	220
7	Com	100
10/8	WSM	400

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-2874 (Manganese), Umont Mining, Inc., Assignee, Plutus and Norwich Claims, Silver Bow County, Montana, Amended Contract No. Idm-E604.

The property was examined September 11, 1957, accompanied by Robert Garwood, company geologist. Since the last inspection, diamond drill hole S2A has been completed and the operator is waiting for approval of his request for an amendment permitting drilling of hole S3 with a churn drill. The Field Team recommended approval of this request in a letter to the Operating Committee dated August 29, 1957.

Hole S2A was drilled in granitic rocks and it bottomed at 497 feet. It encountered vein material at 233-234, 273-283, 417-427, and 449-458 feet. The core between 233 and 234 and between 273 and 283 feet consists of altered granitic rock with seams and stringers of manganese oxide. These probably represent two faulted segments of the Plutus vein. The core between 417 and 427 and between 449 and 458 feet consists of altered and crushed granitic rock in gray clay with some associated rhodochrosite and pyrite. These probably represent two faulted segments of the Norwich vein. Assays of these vein structures furnished by the operator are as follows:

Depth	%Mn	Ozs. Ag/ton
233-234	1.8	0.6
277-278.5	0.7	1.2
423-424.5	4.5	9.6
449-450.5	3.9	0.8

Portions of the vein structure containing no visible mineralization were not assayed.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
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Spokane 2, Washington

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RECEIVED OCT 7 1957

DATE	INITIALS	CODE
10/7	B	220
9	Com	100
10/11	WSM	400

August 30, 1957

MEMORANDUM

To: DMEA Field Team, Region I

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

Subject: Interim inspection, Docket No. DMEA-2874 (manganese), Umont Mining, Inc., assignee of Irving and Nelson, Plutus and Norwich Claims, Silver Bow County, Montana

The project was visited August 27. Mr. W. Criswell, resident mine manager, was contacted at the mine. The previous inspection was on July 31.

During the interim the Operator did not advance any underground DMEA work but continued exploration and mining on company time on the west extension of the Norwich vein and stoping from the east extension.

DMEA work was limited to surface core drilling. Hole S-2A has been advanced 326 feet and completed to a depth of 497 feet. The objective has been reached. The Operator has also prepared the drill site for hole S-3, which he requested to drill by churn drilling.

The status of the contract is:

Date of contract: September 21, 1953
Amended: September 19, 1956
Termination date: January 1, 1958
Contract amount: $106,010.70
Amount spent: 57,281.83 (thru July)

	Authorized	Completed	Vouchered Aug. '57
Stages I and II			
Same as reported for 5/24/57 with one change:			
Assays	140 samples	57	61
Stage III			
Bulldozing	15 hrs.	3.5	7.5
Surface drilling	1700 ft.	1138	1138

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

George T. Krempasky

Except for preparation of the the drill site for hole 5-3, the only thing the operator did for DMEA was to drill 326 feet in hole 5-2A, and reach "the objective". Why not tell us what that was, or do we already have the log?

Memo of Sept. 27 by Geologist answers questions.

UNITED STATES
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So. 157 Howard Street
Spokane 4, Washington

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RECEIVED SEP 3 1957
CODE
9/3 Clm 100
9/4 WSM 400

August 28, 1957

MEMORANDUM

To: DMEA Field Team, Region I

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

Subject: Interim Inspection Report, Docket No. DMEA-2874 (Manganese), Umont Mining, Inc., Assignee, Plutus and Norwich Claims, Silver Bow County, Montana, Amended Contract No. Idm-E604

The property was examined July 29, 1957, accompanied by D. M. Pinckney, Geologist, U. S. Geological Survey, John A. Bowsher, Mining Engineer, U. S. Bureau of Mines, and Robert Garwood, company geologist. The property was examined again the morning of August 12 with Bowsher, Garwood, A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I, and Phil Guild, Geologist, U. S. Geological Survey. In the afternoon of August 12, Bowsher, Weissenborn, and Prinz held an office conference with Dooley Wheeler, Operator.

Although no DMEA advance has been made underground, the underground workings were visited the morning of August 12. Most of the examination and discussions concerned the surface drilling program. As of August 12, 1957, the progress of the surface drilling is as follows. Vertical hole S1 passed from volcanic to granitic rocks at a depth of 288 feet. Vein material (probably the Norwich vein) was penetrated between 442 and 450 feet. Assays from this interval furnished by the Operator are as follows:

Interval	% Mn	Ozs. Ag/ton	Ozs. Au/ton
442 -444½	6.30	1.60	0.02
444½-450	1.2	1.0	--

Hole S2, about 140 feet southwest of S1 (see attached map) was drilled north at an angle of -62½°. This hole started in granite, penetrated volcanic rocks at 131 feet, and bottomed in volcanics at 146 feet. Results of this hole show that the volcanic-granite contact here is nearly vertical and is thus probably a fault. Hole S2A, collared at the site of S2, is being drilled N. 10° W.

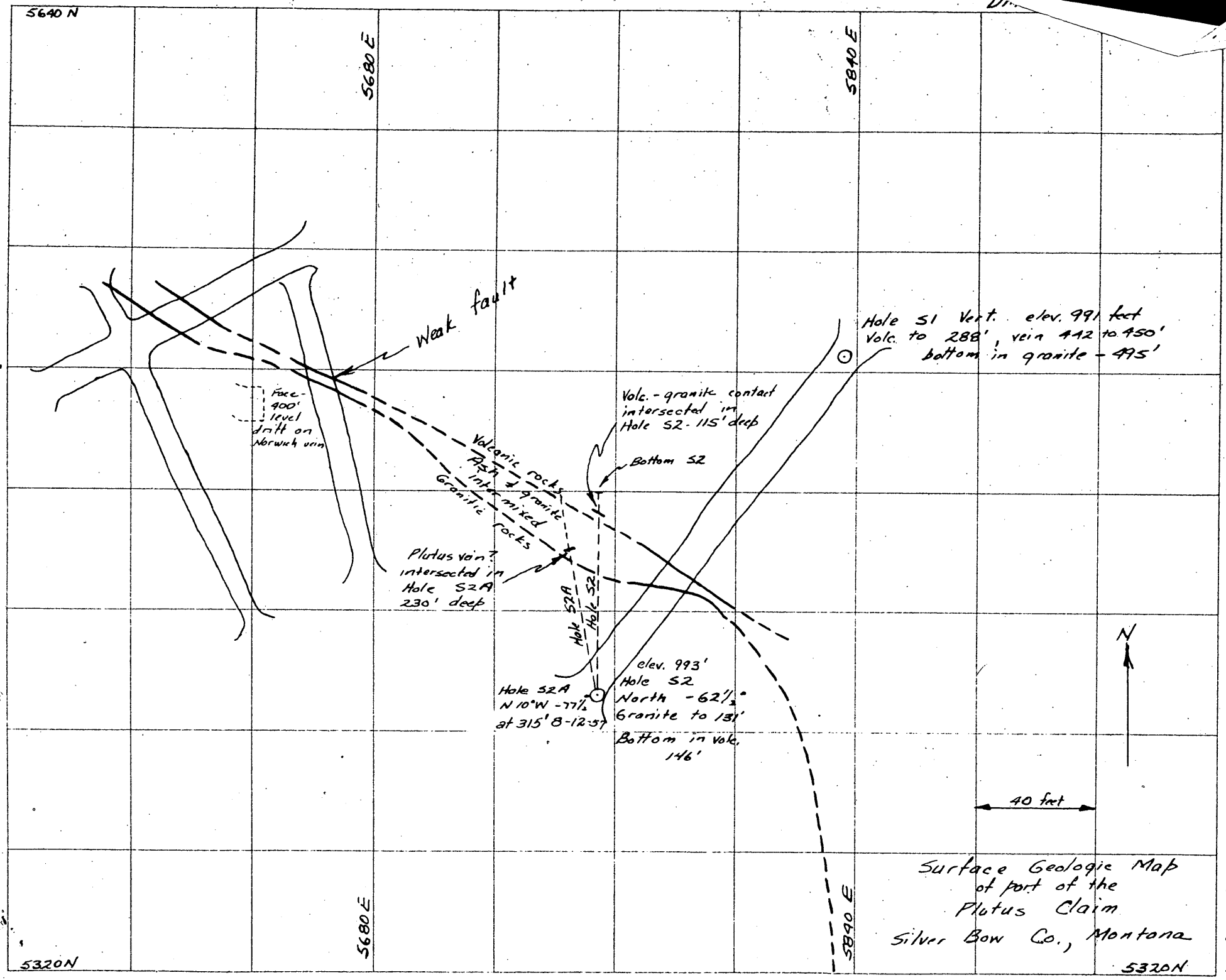
at an angle of $-77\frac{1}{2}^{o}$. This hole was down 315 feet on August 12 and has been in granitic rocks all the way. At 233 feet, granite with streaks of manganese oxides were encountered. This is possibly the Plutus vein.

On the afternoon of August 12, Bowsher, Weissenborn, and Prinz discussed with Wheeler possible sites for hole S3. It was tentatively agreed that this hole should be placed so as to hit the projected intersection of the Norwich and Plutus veins at a depth of about 400 feet. This would be about 250 feet east-southeast of hole S1 at about coordinates 5480N, 6100E. Final decision as to the exact location will be made after completion of S2A. The Operator also discussed the possibility of using a noncoring tricone bit on hole S3 until granite is encountered and then a coring bit in the granite. He was asked to put this request in writing for formal DMEA consideration.

William C. Prinz

Enclosure

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



Surface Geologic Map
of part of the
Plutus Claim
Silver Bow Co., Montana

"ALBANENE" REG. U.S. PAT. OFF. No. 196M KAECO.
J. A. Gendron Co., Spokane

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DMEA
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DATE	INITIALS	CODE
8/26	Conu	100
8/28	WSM	400

August 5, 1957

MEMORANDUM

To: DMEA Field Team, Region I

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

Subject: Interim report, Docket No. DMEA-2874 (manganese), Umont Mining, Inc., Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604

The project site was visited July 31. Mr. R. Garwood, geologist, was at the site of surface DDH S-2A. The previous visit was June 28.

During the interim the Operator did not advance any underground DMEA work. He continues to explore and produce, on company time, by lateral drifting, crosscutting and stoping from the west extension of the vein.

DMEA participation was limited during this interim to surface core drilling. Hole S-1 was stopped at 495 feet after having attained the objective, while hole S-2 was stopped at 146 feet. Hole S-2A has been deepened to 171 feet; this hole is at an inclination of minus 77°.

The Operator reports that DDH-S2 (62.5°) was collared and drilled 125 feet NX size, thence 21 feet BX size to bottom. DDH-S2A was drilled and cased NX size 171 feet, collar to bottom; 41 feet of cementing was required. The log of the hole will accompany the Operator's voucher.

The status of the contract remains the same except for an advance of 445 feet of surface diamond drilling under Stage III. The amount of the contract spent thru June is $53,800.83.

George T. Krempasky

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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Spokane 2, Washington

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DATE | INITIALS | CODE
8/1/57 | C WSM | 220 400

July 15, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Interim report, Docket No. DMEA-2874 (manganese), Umont Mining, Inc., Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604

The project site was visited June 28. The previous visit was May 24.

During the interim the Operator did not advance any underground DMEA work. He continues to explore and produce on company time from the west extension of the vein by lateral drifting, crosscutting and stoping.

DMEA participation was limited during this period to surface core drilling. Hole S-1 was deepened from 240 feet to 367 feet, an advance of 127 feet. Core recovery during this period was 69%. Log of the hole accompanies the Operator's voucher.

At the time of the inspection the Operator reported that the driller lost the last hundred feet of the hole (267-367). The Operator stated that they would ream the hole and resume drilling. The hole has been quite expensive to date.

The contract status is:

Date of contract: Sept. 21, 1953
Termination date: Jan. 1, 1958
Contract amount: $106,010.70
Amount spent: 53,056.83 (thru May)

	Authorized	Advance	Completed	Vouchered June '57
Stages I and II				
Same as reported for 5/24/57				
Stage III				
Bulldozing	15 hrs.			3.5 hrs.
Surface diamond drilling	1700 ft.	127 ft.	367 ft.	367 ft.

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

George T. Krempasky

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1201 N. Division St.
Spokane 2, Washington

June 3, 1957

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DATE	INITIALS	CODE
7-8	C	220
9	Corr	100
7/11	WSOY	400

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Interim report, Docket No. DMEA-2874 (manganese), Umont Mining Co., assignee, Irving and Nelson, Plutus and Norwich Mines, Silver Bow County, Montana, Contract No. Idm-E604

The project was visited May 24, 1957. The previous visit was April 23.

The only DMEA work currently active is the surface diamond drilling and bulldozing.

DD #1, N. 65° E., 450 feet from the shaft collar, had advanced to a depth of 240 feet; reaming and casing has been done to this depth. According to the driller, core recovery has not been too good.

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-E604

Contract date: Sept. 21, 1953 Interim inspection: 5/24/57
Termination date: January 1, 1958 Interim report: 4/23-5/24/57
Contract amount: $106,010.70
Amount spent: 51,135.20 (thru Apr. 1957)

	Authorized	Advance	Completed	Vouchered
Stage II				
Install facilities and equip. in Plutus shaft to 300 Level	$2,082.00		$10,501.62	$2,082.00
Rehab. Plutus shaft, 300-400 L	3,148.00		7,217.00	3,148.00
Rehab. & enlarge 400 sta.	3,200 cu.ft.		4,850 cu.ft.	3,200 cu.ft.
Rehab. 400 L xcut to N vein	240 ft.		198 ft.	200 ft.
Drift westerly on N vein	150 ft.		150 ft.	150 ft.
Normal timbering			150 ft.	130 ft. *
Extra "			none	none
Spiling			20 ft.	20 ft.
Drift easterly on N vein	400 ft.		244 ft.	241 ft.
Normal timbering			241 ft.	241 ft.
Extra "			none	none
Spiling			none	none
Total drifting	550 ft.		394 ft.	391 ft.
" timbering - normal	550 ft.		391 ft.	371 ft. *
- extra	100 ft.		none	none
" spiling	50 ft.		20 ft.	20 ft.
Diamond drilling	420 ft.		86.5 ft.**	--
Assaying	140 samples		55	55
Stage III				
Bulldozing	15 hrs.	15 hrs.	15 hrs.	
Diamond drilling	1,700 ft.	240 ft.	240 ft.	

* 20 feet of normal timbering deducted to be paid under spiling rate.
**11 feet BX, 4 feet AX, 71 feet EX.

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DATE | INITIALS | CODE

UNITED STATES
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1201 N. Division St.
Spokane 2, Washington

April 29, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 27 1957

DATE	INITIALS	CODE
5/27	C	220
"	COM	100
5/28	WSM	400

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Interim report, Docket No. DMEA-2874 (manganese), Umont Mining Co., assignee, Irving and Nelson, Plutus and Norwich claims, Silver Bow County, Montana, Contract No. Idm-E604

The project was visited April 23, 1957. The previous visit was April 2.

The DMEA contract work was not advanced during the interim. The 400 level east drift was remeasured and found to be 244 feet with 241 feet being timbered.

George T. Krempasky

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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Spokane 2, Washington

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 6 1957

DATE	INITIALS	CODE
6/7	Cole	100
5/13	WSM	400

April 11, 1957

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Interim inspection, Docket No. DMEA-2874 (manganese), Umont Mining, Inc., assignee of Irving and Nelson, Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604

The project site was visited April 2. The previous visit, underground, was February 28.

Mr. Wilbur Criswell, resident manager, met at the collar of the shaft, stated that the face of the east drift was inaccessible because it was blocked by muck from a new stope started east of Raise No. 2.

The Operator has core drilled a hole in the north wall of the east drift at about BM 750 plus 26 feet to probe for water and geologic structure. The hole, N. 45° E., inclined plus 5 degrees, bottomed at 86 feet. A log of the hole has not been submitted by the Operator.

Except for the 86 feet of diamond drilling, the status of the contract is the same as reported in my March 4, 1957 report.

George T. Krempasky

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

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
4/19	Com	100

April 3, 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-2874 (Manganese), Umont Mining, Inc. (Assignee of Irving and Nelson), Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604

On March 28, 1957, I discussed with Dooley Wheeler, Jr., general manager of Umont Mining, Inc., R. H. Nelson, company geologist, and John Bowsher of the Bureau of Mines, the proposed program of diamond drilling from the surface. The contract provides for 1,700 feet of drilling from three surface locations. Wheeler proposes that Drill Hole No. 1 be drilled vertically from a surface site located near the edge of the volcanic rocks and about 185 feet east of the face of the 400 level east drift (see attached map). If the volcanic rocks are found to be 200 feet or more deep, Wheeler proposes that Hole No. 1 be continued to a depth of 500 feet. His reasoning is that if the granite is 200 feet deep at Hole No. 1, it probably is deeply buried elsewhere; probably not enough footage would be left to test the depth of the granitic rocks farther from the contact and, therefore, the first hole should be continued to a total depth of 500 feet so that it would cut both the hanging wall and footwall strands of the Norwich vein. This would eliminate the need for a deep inclined hole near coordinate 5840 E. If Hole No. 1 is drilled to a depth of 500 feet, Wheeler thinks a shallower inclined hole should be drilled along coordinate 5840 E so that it intersects the vein above the 400 level.

If the granite is found to be at a shallow depth in Hole No. 1, Wheeler proposes the following:

(1) Drilling two or three more vertical holes from sites to the east to establish the depth to and the configuration of the top of the granite.

(2) To drill an inclined hole northward along coordinate 5840 E to intersect the vein near the 400 level.

(3) To drill a second such hole 150 to 200 feet farther east.

(4) To use any remaining footage for additional inclined holes designed to intersect the vein well above the 400 level.

The volcanic rocks near the contact were re-examined carefully for evidence indicating the presence of intrusive bodies or faults. All of the rock appears tuffaceous except for a few rounded boulders of flow-banded material that probably were picked up and carried along by ash flows and an arcuate band of a stony porphyritic rock that appears to be sheetlike and could be a sill. In the trenches near the contact, some of the volcanics can be seen to be a mixture of poorly bedded ash and gruss that probably represents Tertiary hill wash. Most of these beds dip to the northeast about 20° and may indicate the southwest side of a filled valley that lies to the northeast. At least some of the volcanics extend to considerable depth. Volcanics were found in USBM DDH No. 4 to a depth of 337 feet below the collar of the Plutus shaft (a depth of 304 feet below the collar of the drill hole. See U. S. Bureau of Mines RI 4784, p. 10.) It is not known whether the hole was entirely in tuffs to this depth or if it was drilled partly through an intrusive body. A line connecting the contact in the drill hole to the nearest point of the contact on the surface has an inclination of 57°, too steep for the slope of a hill covered by hill wash. Nelson thinks this indicated thickness of the volcanics is due to a fault. The fault shown on the map and exposed in the trenches is a weak structure containing only a little gouge and probably has only slight displacement, if any, along it. Furthermore, if a fault of considerable displacement existed, it could have almost no displacement to the northwest and would have to be nearly parallel to the contact because if it crossed the contact, the contact would be offset. (The contact appears to be flat and to have basal features, i. e., debris of two rock types are intermixed.) Such a fault is possible but it seems improbable.

The drilling plans proposed by Wheeler are very similar to those that were outlined tentatively in a conference in Spokane with Klepper, MacLaren and Weissenborn before I left for the field.

Enclosure

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

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

1201 N. Division St.
Spokane 2, Washington

March 4, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 22 1957

DATE	INITIALS	CODE
3/23	C	220
3/25	COM	100

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Interim inspection report, Docket No. DMEA-2874 (manganese) Irving and Nelson, Umont Mining, Inc., assignee, Plutus and Norwich claims, Silver Bow County, Montana, Contract No. Idm-E604 (Amended)

Mr. Criswell, resident mine manager, telephoned the Butte office on February 28 to report that no work was done during the interim under the subject contract. The project was visited February 28. The previous visit to the project was February 7.

The 400 level east drift was rechecked and the face was found to be at BM 750 plus 29 feet. Since the previous measurement (November 28, 1956) from BM 750 to the face was 8 feet, an advance of 21 feet is noted. Timber was set from BM 750 plus 4 feet to BM 750 plus 26 feet, an advance of 22 feet.

The engineer, aided by a miner, checked the locations of Raises No. 1 and 2 in the east drift. These raises were driven on company time. The start of Raise No. 1 was at BM 733 plus 6.5 feet, a total distance of 88.5 feet from the beginning of the east drift at BM 730. Raise No. 2 was started 34 feet east of Raise No. 1, measured respectively from the west walls. Raise No. 2 is 4 floors (about 28 ft.) above the sill cap. Raise No. 1 was abandoned at a height of 55 feet. Stoping west of Raise No. 2 has started.

Mr. Criswell was informed that he apparently under-vouchered 9 feet of drifting for January and that he could voucher in February for the item.

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-E604 (Amended)

Date of contract: September 19, 1956 (as amended)
Termination date: January 1, 1958 Interim inspection: 2/28/57
Contract amount: $106,010.70 " report: 2/7-2/28/57
Amount spent: 50,891.60 (thru Jan.)

Stage II	Authorized	Advance	Completed	Vouchered Jan. '57
Install facilities & equip. in Plutus shaft to 300 L	$2,082.00		$10,501.62	$2,082.00
Rehab Plutus shaft, 300 to 410 L. and equip	3,138.00		7,217.87	3,148.00
Rehab & enlarge 400 station	3200 cu. ft.		4850 cu.ft.	3200 cu.ft.
" 400 L xcut to N. vein	240 ft.		198 ft.	200 ft.
Dft westerly on N. vein	150 ft.		150 ft.	150 ft.
Normal timbering			150 ft.	130 ft. *
Extra "			none	none
Spiling			20 ft.	20 ft.
Dft easterly on N. vein	400 ft.	21 ft.	244 ft.	235.2 ft.
Normal timbering		22 ft.	241 ft.	235.2 ft.
Extra "			none	
Spiling			none	
Total drifting	550 ft.	21 ft.	394 ft.	385.2 ft.
" timbering - normal	550 ft.	22 ft.	390 ft.	365.2 ft.*
" - extra sets	100 ft.		none	
spiling	50 ft.		20 ft.	20 ft.
Diamond drilling	420 ft.		none	
Assaying	140 samples		55	55

*20 feet of normal timbering deducted to be paid under spiling rate.

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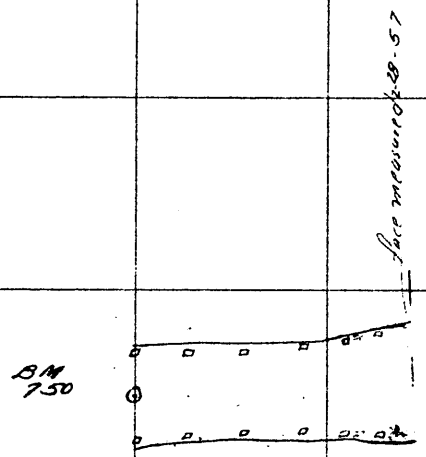
DATE | INITIALS | CODE

BM 750 to face E-W. 29 feet



EAST DRIFT

Docket No DMEA - 2874

Irving and Nelson Norwich Mine

Contract No Idm - E604

Scale 1" = 20'

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

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D M E A
RECEIVED MAR 22 1957

DATE	INITIALS	CODE

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

1201 N. Division St.
Spokane 2, Washington

February 25, 1957

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DMEA
RECEIVED MAR 11 1957

DATE	INITIALS	CODE
3/11	C	220
1/13	Com	1000

MEMORANDUM

To: DMEA Field Team, Region I, Northwest ~~District~~

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

Subject: Interim report, Docket No. DMEA-2874 (manganese), Irving and Nelson, Umont Mining, Inc., assignee, Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604 (Amended)

The project site was visited on February 7. The underground workings were not inspected because Mr. Criswell, resident manager, stated that no contract work was done during the month of January. The previous visit to the project site and underground operations was made on November 28.

Mr. Criswell stated that the face of the east drift was inaccessible because a second raise had just been started in this drift which was blocked by muck. The location of this raise is approximately 50 feet west of the east drift face.

The first raise, designated Raise 4-553, is located approximately 100 feet from the starting point of the east drift and 35 feet west of the second raise. The raise is 8 floors (about 55 feet in plane of the vein) above the sill cap. The raise was abandoned at this point, due to pinching out of the ore.

Contract work was temporarily suspended during December and January. No request for a recess was made by the Operator.

Referring to my interim report dated December 3, 1956, paragraph 4: "The east drift is in ore and the Operators are contemplating raising in this area. If the Operators do raise in this area, progress in the east drift may be halted because it is believed only one operation can be carried out without interfering with other operations in the mine."

In a letter to the Field Team, dated January 8, 1957, the Operator stated that work of advancing the east drift had been stopped "in order to diamond drill ahead as an exploration and water precaution measure." In fact, the work in the east drift had been stopped in December because of driving Raise No. 1 on company time.

Mr. Weissenborn's memorandum report of February 12 to the Field Team recommends diamond drilling 200 feet ahead of advancing the east drift, as a precautionary water measure to prevent flooding.

The Operator was well ahead of contract schedule time in December and authorization for driving Raise No. 1 would probably have been granted.

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-E604

Date of contract: September 21, 1953 Interim inspection: 2/7/57
Amended: September 19, 1956 Interim report: 11/28/56-2/7/57
Termination date: January 1, 1958
Amount of contract: $106,010.70
Amount spent: 50,891.60 (thru Nov. 1956)

	Authorized	Advance	Completed	Vouchered Jan. '57
Stage II				
Install facilities & equipment in Plutus shaft to 300 level	$2,082.00		$10,501.62	$2,082.00
Rehab. Plutus shaft, 300 to 410 levels, and equip	3,148.00		7,217.87	3,148.00
Rehab. and enlarge 400 station	3,200 cu.ft.		4,850	3,200 cu.ft.
" 400 L XC to N vein	240 ft.		198 ft.	200 ft.
Dft westerly on N vein	150 ft.		150 ft.	150 ft.
Normal timbering			150 ft.	130 ft. *
Extra "			none	none
Spiling			20 ft.	20 ft.
Dft easterly on N vein	400 ft.		223 ft.	235.2 ft.
Normal timbering			219 ft.	235.2 ft.
Extra "			none	none
Spiling			none	none
Total drifting	550 ft.		373 ft.	385.2 ft.
" timbering - normal	550 ft.		368 ft.	365.2 ft. *
extra sets	100 ft.		none	none
spiling	50 ft.		20 ft.	20 ft.
Diamond drilling	420 ft.		none	none
Assaying	140 samples		55	55

*20 feet of normal timbering deducted to be paid under spiling rate.

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

DMEA
RECEIVED FEB 7 1957

DATE	INITIALS	CODE
2/11	Cbm	100
2/12	WSM	400

January 17, 1957

MEMORANDUM

To: Field Team, Region I, Northwest District

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

Subject: Interim Inspection Report, Docket No. DMEA-2874 (Manganese)
Umont Mining, Inc. (assignee of Irving and Nelson)
Plutus and Norwich claims, Siver Bow County, Montana
Amended Contract No. Idm-E604

I inspected the 400 level of the Norwich mine January 8, 1957 accompanied by Mr. Robert Nelson, mine geologist and Mr. Dooley Wheeler, Jr., general manager, Umont Mining, Inc.

The drift on the Norwich vein has been driven from the cross-cut north of the Plutus shaft, about 500 feet westerly and about 200 feet easterly. One hundred and fifty feet of the westward drift and all of the eastward drift have been driven under the terms of the contract. The westward drift has entered the downward projection of the known Norwich ore body that is being mined above the 300 level. In addition to the 400 level drifting, the Operator has driven two raises to a height of about 25 feet each above the sill, has cut some new trenches and deepened old ones on the surface east of the Plutus shaft, and has made a detailed geologic map of the surface.

The Operator's detailed map of the surface indicates that the long northwestward-trending dacite dike shown on the map accompanying the application report (dated April 12, 1956) may be non-existent or of restricted extent and indicates that the surface of the batholith under the postore volcanic rocks may be nearly flat, gently dipping, and for the most part covered by a thin layer of tuffs. However, some of the volcanic rock on the eastern part of the Norwich claim is a nontuffaceous rock and could be either an intrusive or a flow. The U. S. Bureau of Mines' diamond drill hole No. 4 was apparently in volcanic rock to a depth of about 180 feet below the surface (U. S. Bureau of Mines Report of Investigations 4784, p. 10, 1951). This hole was collared near the outcrops of nontuffaceous rocks and went through what may be a small intrusive body.

2874

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT
Date 2-8

Referred to:

1. ~~Mr. Mittendorf~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. ~~Docket Control Mails and Files~~
5. ~~Gen & Tens Affairs Division~~
6. Docket Control Mails and Files

Note comments in report regarding:

1. Doesn't look too good! —
2. Minor change in
3. work plan
4. recommended.

and take appropriate action.

- - - - - - - - - -

Action taken by Division:

Amendment prepared
WSO
2/12/57

Robert E. Adams

In the east drift on the 400 level, the Norwich structure appears to be a wide complex zone containing many faults and probably more than one vein (see attached sketch). Near the crosscut is a vein about 10 - 12 feet wide that is cut by many cross faults. To the east of the crosscut, the zone contains several wide strongly mineralized bands, the edges of which are along faults or are gradational into the walls. The rock between the bands is intensely altered and broken and contains many veinlets. The zone is broken by several east- and northeast-trending faults as well as many cross faults of small displacement. In the levels above, the Norwich vein strikes N. 80° E. to E. East of the crosscut on the 400 level, the major faults strike N. 65° E. to E., but some of the mineralized bands strike about N. 60° W. Nelson and Wheeler believe that this may be part of a wide complex zone, the main footwall of which may continue out along the fault that strikes N. 82° E. and dips 59° S. and that the hanging wall of the zone may lie as much as 60 - 70 feet south of this fault. The hanging wall may be represented by the easterly trending fault along the south wall of the drift near the face. They also think that the northwest-trending mineralized bands may lie along en echelon fractures in a wider zone, and that the strong mineralized band near the raise may continue along the fault that strikes N. 82° E.

The Operator has requested that one of the 600-foot surface diamond drill holes provided for in Stage III be transferred for use on the 400 level to test the walls because of the possibility that the eastward extension of the Norwich structure may be a wide zone containing several veins, some of which may not be parallel to the zone.

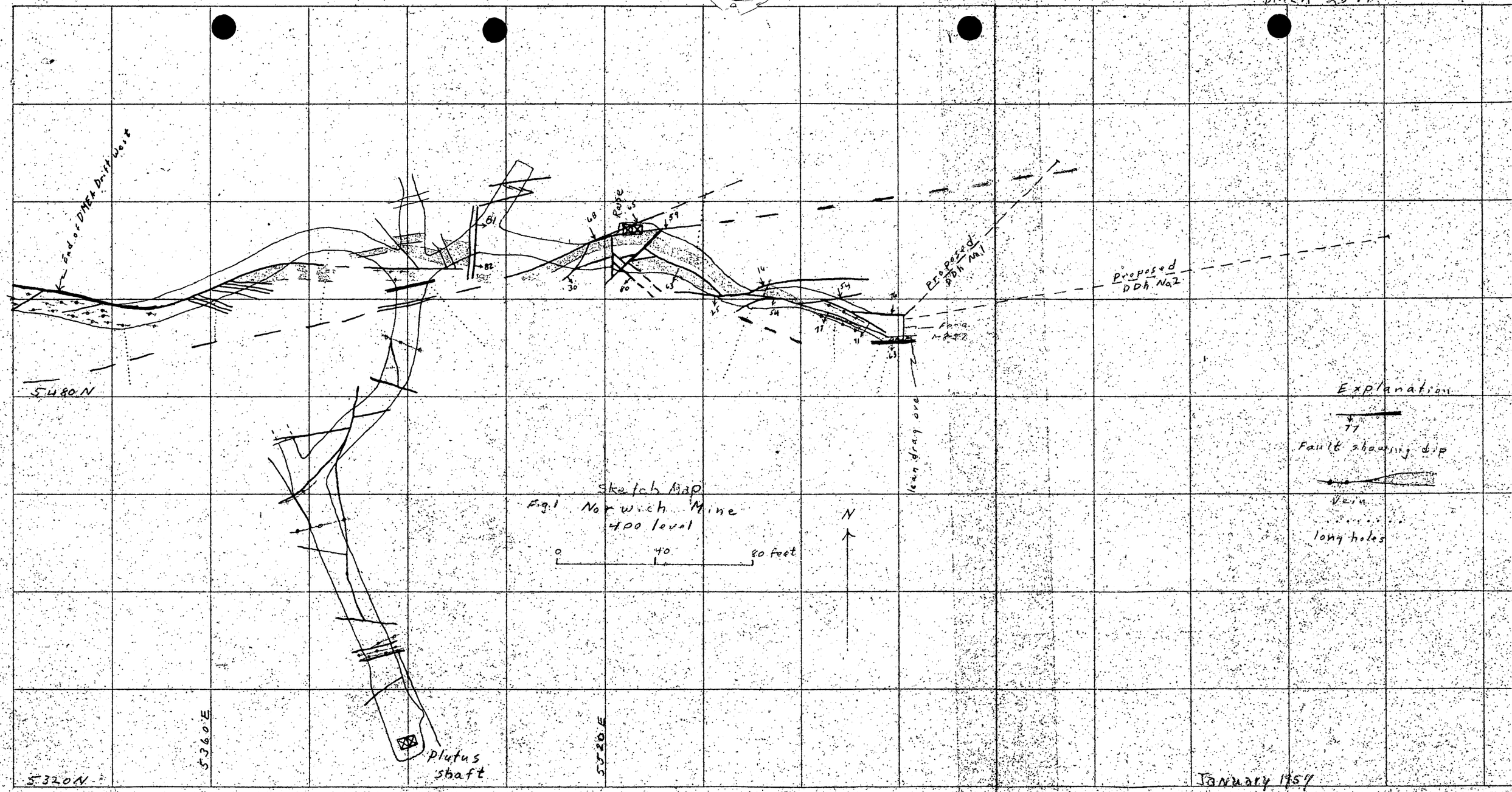
Since new information indicates that the granite may lie at no great depth under the volcanic cover and that the northwest-trending dike with its attendant hypothetical fault may not exist, all of the surface drilling provided for in the contract may not be needed. It is recommended that the contract be amended so that up to 600 feet of surface drilling in Stage III can be transferred for use on the 400 level to test the walls. Six hundred feet of drilling from the surface at $6 per foot would provide for 720 feet of underground drilling at $5 per foot. The Operator has proposed two holes from the face of the 400 level drift east. Proposed hole No. 1 would be drilled N. 45° E., inclined slightly upward for about 90 feet and would test the extension of the ore along the fault that strikes N. 82° E. Such a hole seems reasonable and could reveal valuable information. The Operator also proposes to drill a second hole from the face N. 80° E., inclined slightly upward, for about 200 feet. The purpose of this hole is to test for ground water

which the Operator is fearful of encountering and to determine if volcanic rocks and faults will be encountered to the east. Long holes could be used to probe for possible water courses and at this time there seems to be no real reason to believe that cross faults having a greater displacement than those already encountered would be expected to the east. To test for small intrusive bodies related to the volcanic rocks does not seem to justify long diamond drill holes ahead of the drift, which will eventually explore the same ground anyway and will do so more satisfactorily. As drifting progresses, it might be advisable to drill other holes into the walls. Most of these holes will be too long to be successfully drilled by long hole methods. For this reason diamond drilling is recommended, and the footage is not believed to be excessive.

Enclosure

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

DMEA 2874



Sketch Map
Fig. 1 Norwich Mine
400 level

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

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-2874 (manganese), Irving and Nelson, Umong Mining, Inc., assignee, Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604 (amended)

In a telephone conversation with Mr. W. Criswell, resident manager, he stated that there was no advance under the subject contract; the previous visit to the operation was on November 28.

Work during the interim consisted of silling out ore that was found to be more than drift wide. The Operator also stated they have started a raise in the east drift which is 40 feet above the track. The point of the raise is approximately 100 feet east from the rehabilitated crosscut.

Ore is being mined from the east and west drifts.

George T. Krempasky

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

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

1201 N. Division St.
Spokane 2, Washington
December 3, 1956

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

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Interim report, Docket No. DMEA-2874 (manganese), Umont Mining, Inc., assignee of Irving and Nelson, Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604 (Amended)

The property was inspected November 28, accompanied by Mr. William Criswell, resident manager of Umont Mining, Inc. The previous visit was on October 31.

During the interim the west drift was advanced by the Operator on his own account. The east drift was advanced 96 feet for a total of 223 feet. In the east drift normal timber totals 229 feet, an advance of 101 feet.

The east drift bears N. 83° E. for 20 feet, from BM 733 to t.p. 5, thence S. 67° E. for 36 feet, from t.p. 5 to t.p. 6, thence N. 84° E. for 15 feet from t.p. 6 to t.p. 7 and thence due east from t.p. 7 to BM 750 a distance of 25 feet, BM 750 placed on cap 2nd set from face, and then 8 feet to the face.

The east drift is in ore and the Operators are contemplating raising in this area. If the Operators do raise in this area, progress in the east drift may be halted because it is believed that only one operation can be carried out without interfering with other operations in the mine. The Operators are also considering placing a water door in the east drift as soon as a desirable site is reached.

The east drift has been driven in ore from BM 730 + 60 to BM 750 - 3. The average width of the ore is 5.7 feet.

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

George T. Krempasky

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

Contract No. Idm-E604

Date of contract: September 21, 1953 Interim inspection: 11/28/56
Amended: September 19, 1956 " report: 10/31-11/28
Termination date: January 1, 1958
Amount of contract: $106,010.70
Amount spent: 50,891.60 (thru Nov. 1956)

	Authorized	Advance	Completed	Vouchered 12/4/56
Stage II				
Install facilities & equip. in Plutus shaft to 300 L.	$2,082		$10,501.62	$2,082
Rehab. Plutus shaft, 300 to 410 L and equip	3,148		7,217.87	3,148
Rehab & enlarge 400 sta.	3200 cu.ft.		4850 cu.ft.	3200 cu.ft.
" 400 L XC to N vein	240 ft.		198 ft.	200 ft.
Dft westerly on N vein	150 ft.		150 ft.	150 ft.
Normal timbering			150 ft.	130 ft. *
Extra "			—	--
Spiling			20 ft.	20 ft.
Dft easterly on N. vein	400 ft.	96 ft.	223 ft.	235.2 ft.
Normal timbering		101 ft.	219 ft.	235.2 ft.
Extra "			—	--
Spiling			--	--
Total drifting	550 ft.	96 ft.	373 ft.	385.2 ft.
" timbering - normal	550 ft.	101 ft.	369 ft.	365.2 ft. *
" " - extra sets	100 ft.		—	—
" - spiling	50 ft.		20 ft.	20 ft.
Diamond drilling	420 ft.		--	—
Assaying	140	25	55	55

*20 feet of normal timbering deducted to be paid under spiling rate.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
November 5, 1956

RECEIVED NOV 13 1956 D.M.E.A.

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Interim report, Docket No. DMEA-2874 (manganese), Umont Mining, Inc., assignee of Irving and Nelson, Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604 (Amended)

The property was inspected October 31, accompanied by John A. Bowsher, Bureau of Mines, Darrell Pinckney, Geological Survey, William Criswill, resident manager, Umont Mining, Inc., and Robert H. Nelson. The previous visit was made on September 27.

During the interim the west drift was advanced an additional 112 feet for a total of 182 feet. The east drift was advanced 95 feet for a total of 127 feet. Normal timber in the west drift totals 171 feet, an advance of 111 feet. In the east drift normal timber totals 118 feet, an advance of 96 feet.

The drift west was on a bearing of S. 69° W. from T.P.-2E to T.P.-3E for a distance of 35 feet, thence S. 73° W. from T.P.-3E to T.P.-4E for a distance of 55 feet, thence N. 80° E., a distance of 47 feet, to BM 734, placed on cap of last set, and thence 11 feet to the face of the west drift.

Spiling in the west drift was placed at T.P.-3E + 5 to T.P.-3E + 25.

The east drift was advanced N. 62° E. from BM 730 to T.P., a distance of 22 feet. The Operator stated that a faulted area was encountered and lost the vein, and as all previous faults in the mine showed a displacement to the north he proceeded N. 37° E. for 37 feet, 36 feet timbered. In this advance the vein was not encountered; therefore, the Operator secured sectional steel and drilled a long hole to the south which penetrated the vein, and he proceeded to crosscut from the fault east to the vein and resumed drifting on the vein.

ACTION ON EXAMINER'S
OR FINAL FIELD TEAM REPORT

Date 11-13

Referred to:

1. ~~Mr. McMahon~~
2. ~~Mr. Jackson~~
3. Mr. Chambers
4. ~~Docket Control Mails and Files~~
5. Division
6. Docket Control Mails and Files

Note comments in report regarding:

1.

2.

3.

4.

and take appropriate action.

- - - - - - - -

Action taken by Division:

Robert L. Adams

The east drift bears N. 88° E. from T.P. to T.P.-2 for 20 feet, thence N. 79° E. from T.P.-2 to T.P.-3 for 16 feet, thence N. 87° E. from T.P.-3 to T.P.-4 for 14 feet, and thence N. 75° E. from T.P.-4 to BM 733, placed on cap of last set of timber, for 10 feet and then 8 feet to the face.

The status of the contract is as follows:

Date of contract: Sept. 21, 1953
Date amended: Sept. 19, 1956
Termination date: Jan. 1, 1958
Contract amount: $106,010.70
Amount spent: 39,076.70 (thru Sept.)

Interim inspection: 10/31/56
Interim report: 9/27-10/31/56

Stage II	Authorized	Advance	Completed	Vouchered 10/31/56
Install fac. & equip. in Plutus shaft to 300 L.	$2,082.00		$10,501.62	$2,082.00
Rehab. Plutus shaft, 300 to 410 L. and equip.	3,148.00		7,217.87	3,148.00
Rehab & enlarge 400 station	3200 cu.ft.		3200 cu.ft.	3200 cu.ft.
Rehab 400 L. XC to N vein	240 ft.		198 ft.	200 ft.
Dft westerly on N vein	150 ft.	112 ft.	182 ft.	150 ft.
Normal timbering		111 ft.	171 ft.	130 ft. *
Extra "		-	-	-
Spiling		20 ft.	20 ft.	20 ft.
Dft easterly on N vein	400 ft.	95 ft.	127 ft.	123.7 ft.
Normal timbering		96 ft.	118 ft.	123.7 ft.
Extra "		-	-	-
Spiling		-	-	-
Total drifting	550 ft.	207 ft.	309 ft.	273.7 ft.
" timbering - normal	550 ft.	207 ft.	289 ft.	253.7 ft. *
" " - extra sets	100 ft.	-	-	-
Spiling	50 ft.	20 ft.	20 ft.	20 ft.
Diamond drilling	420 ft.	-	-	-
Assaying	140	12	34	34

*20 feet of normal timbering deducted to be paid under spiling rate.

George Krempasky

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

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

RECEIVED
OCT 30 1956

1201 N. Division St.
Spokane 2, Washington
October 17, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

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

Subject: Initial inspection and interim report, Docket No. DMEA-2874 (manganese), Irving G. Irving and Robert H. Nelson, Umont Mining Inc., assignee, Plutus and Norwich Claims, Silver Bow County, Montana, Contract No. Idm-E604 (Amended)

The initial inspection was made September 27, accompanied by Wilbur Criswill, resident manager, Umont Mining Inc.

The rehabilitated shaft and station enlargement were checked and the Operator's narrative for the period April 16-July 31, 1956, inc. affirmed. A 3530 rpm Ventair Blower operated by a 15 hp direct connected motor is set one timber set above the 244 level; air is discharged down the shaft through 15-inch pipe fluted from a 12-inch throat, thence on the sill via 16-inch collapsible vent-tubing.

Two pumps are set at and below the 400 station; both discharge to the surface through a 6-inch column. The 40 hp pump is set at the station and the standby 35 hp is submersible and hung below the station in the 10-15-foot sump. The pumps are automatic and electronically controlled.

Electrical control boxes, installed by city electricians, are set at the 400 level station.

For the first 115 feet from the shaft the rehabilitated crosscut has been enlarged to double track width. Adjacent to the shaft the station measures 8.5 ft. by 8.8 ft. inside timber (about 11 ft. by 11 ft. outside timber). At a point 26 feet from the shaft the station narrows to 7.2 ft. by 7.0 ft. inside timber (about 9 ft. by 9 ft. outside timber) and continues thence to 115 feet from the station. Timbers are 12 x 12, 9- and 8-foot posts, 12 x 12 long caps, and 8 x 8, 5.3-ft. girts. The Operator has designated the length of the shaft station as 50 feet from the shaft timber. The Operator reports that the cross-section of the old crosscut, adjacent to the station, as being 4 ft. by 6 ft. For the designated length (50 ft.) of shaft station the Operator has removed about 4,850 cu. ft. of material.

For about 25 feet from the shaft, metal turn sheets have been installed, thence double track to about 100 feet from the shaft. The track is 25-lb. rail set at 24-inch gauge.

At 27 feet from the shaft, spiling was necessary for a linear distance of 21 feet (4 sets).

The rehabilitated crosscut to date measures 248 feet from the shaft to the end of rehab timber. BM 730 was set on a long cap at 216 feet from the shaft, and it marks the start of the east drift to the vein (hanging wall and footwall of vein at about 209 feet and 250 feet, respectively). The old crosscut workings continue north and beyond the present end of the rehabilitation.

The east and west drifting begins at BM 730. The east drift has advanced 32 feet from its beginning and 22 feet of normal timber (4 sets) has been installed. The west drift has advanced 70 feet from its beginning (west wall of crosscut @ BM 730 + 9 feet) and 60 feet of normal timber (13 sets) has been installed.

For all drifting and crosscutting the Operator, where timbering is necessary, will install standard Anaconda drift sets which are framed, 12x12 - 8 ft. posts, 12x12 - 6.2 ft. caps, and 6x8 - 4.8 ft. girts. Drift sets in place measure 5 ft. x 7 ft. in clear of timber. Gob lagging will be 2 inch and back lagging 3 inch.

Air line from shaft station to vein is 4 inch which will be reduced to 3 inch in drifting on the vein. Water line is 2 inch throughout.

The Operator will carry a transit survey on the 400 level.

Where the crosscut encountered the vein the vein structure is quite wide, from 209-250 feet, but the mineralization appears to be confined to the area between 235-240 feet; all measurements from the shaft.

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

John A. Bowsher

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

Status of Contract Idm-E604 (Amended)

Date of contract: Sept. 21, 1953 Interim inspection: 9/27/56
Amended: Sept. 19, 1956 Interim report: 4/16 - 9/27/56
Termination date: Jan. 1, 1958

Contract amount: $106,010.70
Amount spent: 11,914.51 (thru Sept. 1956)

	Authorized	Advance	Completed	Vouchered 9/30/56
Stage II				
Install facilities and equip. in Plutus shaft to 300 L.	$2,082.00		$10,501.62	$2,082.00
Rehab. Plutus shaft, 300 to 410 L. and equip.	3,148.00		7,217.87	3,148.00
Rehab. & enlarge 400 station	3,200 cu.ft.	4,850	4,850 cu.ft.	3,200 cu.ft.
" 400 L Xcut to N vein	240 ft.	198	198 ft.	200 ft.
Dft. westerly on N vein	150 ft.	70	70 ft.	87 ft.
Normal timbering		60	60 ft.	87 ft.
Extra "		-	-	-
Spiling		-	-	-
Dft. easterly on N vein	400 ft.	32	32 ft.	31 ft.
Normal timbering		22	22 ft.	31 ft.
Extra "		-	-	-
Spiling		-	-	-
Total drifting	550 ft.	102 ft.	102 ft.	118 ft.
" timbering - normal	550 ft.	82 ft.	82 ft.	118 ft.
extra sets	100 ft.	-	-	-
spiling	50 ft.	-	-	-
Diamond drilling	420 ft.	-	-	-
Assaying	140 samples		22	22

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
February 21, 1956

RECEIVED
MAR - 5 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: E. C. Pattee, Mining Engineer, Bureau of Mines

Subject: Final inspection, Docket No. DMEA 2874 (manganese), Irving and Nelson, Plutus Mine, Silver Bow County, Montana, Contract No. Idm-E604

The project was inspected February 20, accompanied by Mr. Nelson. The previous inspection was made November 30, 1955.

The advance during the reporting period was on the 275-foot level. The advance consists of 74 feet of drifting and 70 feet of timbering. The total drifting on the 275-foot level drift east measures 185 feet, of which 183.6 feet is authorized by Amendment No. 1 of the contract. The total length of the timber placed in the drift and authorized by the contract measures 177 feet.

Since the last inspection, a stope has been started on the vein on the 275-foot level. Beginning at a point approximately 63 feet east of the shaft (USBM 992 + 31') the stope extends 36 feet easterly. The vein is from 2 to 4 feet wide and averages approximately 20% Mn, according to Mr. Nelson. Two shipments of ore have been made from the stope.

The work under the contract has been completed. The accessible work completed under the contract was remeasured for the final report. The drift west on the 200-foot level could not be remeasured because of caving of the drift at a point 44 feet west of the crosscut. The contract work started approximately 115 feet west of the crosscut.

The measurements and work completed are tabulated below:

	Authorized		Completed	
200 level drift west	44.4	feet	44.4	feet
Timber in 200 level west drift	44.4	"	44.4	"
200 level drift east	16.4	"	16.4	"
Timber in 200 level east drift	16.4	"	14.5	"
200 level raise	80	"	72	"
244 level drift west	225.6	"	222.6	"
Timber in 244 level drift west	225.6	"	219	"
275 level drift east	183.6	"	183.6	"
Timber in 275 level drift east	183.6	"	177.0	"
275 level timbered station	1300	cu.ft.	892.5	cu.ft.
Rehabilitate Plutus shaft	56	feet	36.5	feet
Pumping	150	days	none	
Assaying	249		67	

E. C. Pattee

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

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

RECEIVED DEC 19 1955

November 30, 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 28~~47~~74 (manganese), Irving and Nelson, Plutus Mine, Silver Bow County, Montana, Contract No. Idm-E604

The project was inspected November 30. The previous inspection was on October 18.

The contract work has been recessed since September, pending notification of extending the completion date from September 21, 1955 to December 31, 1955. The work was resumed November 22.

Progress during the interim was on the 275-ft. level (No. 4), east of the shaft. The advance consists of 3 feet of drifting and setting 9 feet of timber. The totals to date are 111 feet of drifting and 107 feet of timbering. All of the advance is voucherable.

John A. Bowsher
E. C. Pattee

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
October 18, 1955

RECEIVED
OCT 24 1955
WSM

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: E. C. Pattee, Mining Engineer, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA-2847 (manganese), Irving and Nelson, Plutus Mine, Silver Bow County, Montana, Contract No. Idm-E604

The Plutus mine was visited October 18, 1955. The project was previously inspected September 6.

An examination of the underground workings was not made because Mr. Nelson stated that no work had been done under the contract since the previous inspection. The work has been recessed pending notification of extension of the completion date of the contract, which was September 21, 1955.

A letter requesting an extension of the contract to December 31, 1955 was sent to the Field Team on October 12, according to Mr. Nelson.

E. C. Pattee

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

Amend. #7 to extend to 12/31/55 sent to FT by ltr dated 10/20/55.

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

RECEIVED
OCT 10 1955

1201 N. Division St.
Spokane 2, Washington
September 6, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: E. C. Pattee, Mining Engineer, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA-2874 (manganese)
Irving and Nelson, Plutus Mine, Silver Bow County, Montana,
Contract No. Idm-E604

A routine inspection of the project was made September 6, accompanied by Mr. Irving and Mr. Nelson. The previous inspection was made August 10.

The drift east on the 275-foot level had been advanced 28 feet since the last inspection. A balance of 75.7 feet remains to be driven by the completion date of the contract, September 21, 1955. A total of 97.8 feet of timber had been placed in the drift.

The miners working on the 275-foot level have been employed in building an ore bin at the surface. According to Mr. Irving, work on the 275-foot level was discontinued on August 31, 1955, but will be resumed about September 9.

A letter from the Operators requesting a 30-day extension of the contract has been sent to the Field Team, according to Mr. Irving.

The status of the contract work at the time of the inspection is summarized below:

	Authorized	Completed
200 level drift west	44.4 feet	Yes
200 level drift east	16.4 "	Yes
200 level raise	80 "	72 feet
Timbering	470 "	380 "
Assays	249	64
Unwater and rehabilitate Plutus Shaft	56 feet	36.5 feet
275 level timbered station-xc	1300 cu.ft.	892.5 cu.ft.
275 level drift east	183.6 feet	107.9 feet
Pumping	150 days	none
244 level drift west	225.6 feet	221.5 feet

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

E. C. Pattee

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

RECEIVED
SEP - 1 1955

1201 N. Division St.
Spokane 2, Washington
August 18, 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: E. C. Pattee, Mining Engineer, Bureau of Mines, Region I

Subject: Routine inspection, Docket No. DMEA 2874 (manganese), Irving and Nelson, Plutus Mine, Silver Bow County, Montana, Contract No. Idm-E604

The project was inspected August 10, 1955, accompanied by M. R. Klepper and Darrell M. Pinckney, geologist, U. S. Geological Survey, and Mr. Robert Nelson, one of the Operators.

The drift east on the 275-foot level had been advanced 57 feet since the last inspection on June 15, 1955. A balance of 104 feet remains to be driven by the completion date of the contract, September 21, 1955. New timber placed in the drift since the last inspection consists of 10 sets placed east from BM 992.

The status of the contract work at the time of the inspection is summarized below:

	Authorized	Completed
200 level drift west	44.4 feet	Yes
200 level drift east	16.4 "	Yes
200 level raise	80 "	72 feet
200 level timbering	470 "	61 "
Assays	249	62
Unwater and rehabilitate Plutus shaft	56 "	36.5 "
275 level timbered station-XC	1300 cu.ft.	892.5 cu.ft.
275 level drift east	183.6 ft.	80 feet
Pumping	150 days	none
244 level drift west	225.6 feet	221.5 feet

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

E. C. Pattee

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 2874 (manganese) Irving and Nelson, Plutus mine, Silver Bow County, Montana, Contract No. Idm-E604

The project was inspected June 15, accompanied by Mr. Robert Nelson, one of the Operators.

The 244 level southwest drift had been driven a total of 221.5 feet under the contract. The total footage authorized by the contract for this drift is 225.6 feet. The total length of the drift under the contract had been timbered. The Operators do not plan to drive the drift farther at this time.

Measurements of the drift under the contract made by a Brunton compass-tape survey are as follows:

Starting point of contract	BM 405 to BM 458	S 58° W	32.7	feet
	BM 458 to BM 459	S 79° W	52.4	"
	BM 459 to BM 986	S 72° W	72.1	"
	BM 986 to face	S 78° W	64.3	"

Work has been resumed on the 275 level east drift. The face of the drift was 51 feet from the shaft. This made an advance of 17 feet since the work had been resumed. The shaft station at this level measures 8½'x7'x15'. The station has been timbered and the drift timbered to BM 991 + 22.5 feet.

Measurements of the work under the contract made by a Brunton compass-tape survey are as follows:

BM 990 (at the shaft) to	BM 991 (start of drift)	S 28° E	9.8	feet
	BM 991 to BM 992	S 72° E	22.6	"
	BM 992 to face	N 85° E	19.5	"

See attached sketch.

It has been noted that there has been a difference in notation of mine levels in the Operator's narratives and in routine inspection reports by engineers. The level 275 feet below the shaft collar is the number 4 level of the mine. It has been referred to as the 400 level. The mine levels and distance below the shaft collar are tabulated below:

Distance below shaft collar	Mine Level
244 feet	No. 3
275 "	No. 4
300 "	No. 5

The shaft had been dewatered to approximately 380 feet.

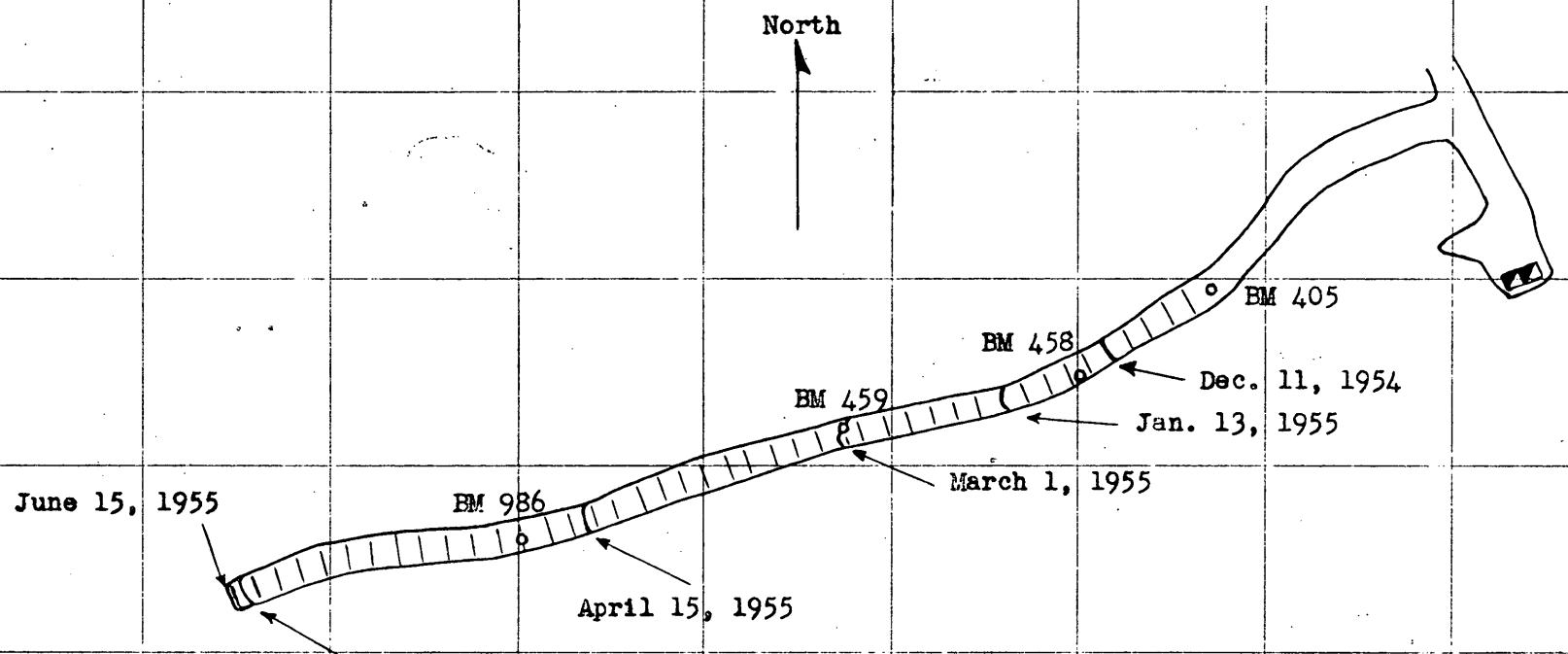
A Lancaster submersible pump has been delivered to the mine but will not be installed until the shaft has been dewatered and the sump cleaned out. The pump has a 35 h.p. electric motor and has a capacity of 185 g.p.m. at a 470-ft. head.

The status of the contract work at the time of the inspection is summarized below:

	Authorized	Completed
200 level drift west	44.4 feet	Yes
200 level drift east	16.4 "	"
200 level raise	80 "	72 feet
200 level timbering	470 "	61 "
Assaying samples	249	59
Unwater and rehabilitate Plutus shaft	56 feet	36.5 feet
275 level timbered station-XC	1300 cu.ft.	892.5 cu.ft.
275 level drift east	183.6 feet	42.1 feet
Pumping	150 days	none
244 level drift west	225.6 feet	221.5 feet

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

E. C. Pattee



244 LEVEL, PLUTUS MINE

IRVING AND NELSON, OPERATORS

Silver Bow County, Montana
Docket No. DMEA-2874
Contract No. Idm-E604
Scale 1"= 40'

G.A.A.

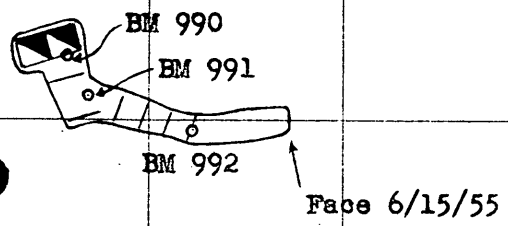
North

275-ft.(No. 4 Level), PLUTUS MINE

IRVING AND NELSON, OPERATORS

Silver Bow County, Montana

Docket No. DMRA-2874
Contract No. Idm-E604
Scale 1"= 40'



G.A.A.

"ALBANENE" NO. 1500M K&E CO., N.Y. REG. U.S. PAT. OFF.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
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 2874 (manganese) Irving and Nelson, Plutus Mine, Silver Bow County, Montana, Contract No. Idm-E604

The project was inspected May 31, 1955, accompanied by Mr. Robert Nelson, one of the Operators.

The 244 level southwest drift had been advanced 73 feet since the last inspection on April 15, 1955. The vein averages 2.5 feet wide at the face. Eighteen inches of the more heavily mineralized portion of the vein is estimated to contain approximately 20 percent manganese. New timber had been placed up to BM 986 + 53.1 feet since the last inspection. The drift had been driven a total of 217.5 feet from the starting point of the contract. This is an advance of 6.9 feet more than the 210.6 feet which is authorized by Amendment No. 2 of the contract.

A Brunton compass-tape survey was made of the work progress and the following measurements recorded:

BM 459 to BM 986	S 72° W	72.1 feet
BM 986 to face of drift	S 79° W	60.3 "

Status of the contract work at the time of the inspection was:

	Authorized	Completed
200 level drift west	44.4 feet	44.4 feet
200 level drift east	16.4 "	16.4 "
200 level raise	80 "	72 "
200 level timbering	470 "	61 "
Assaying samples	249	59
Rehabilitate Plutus shaft	56 "	36.5 "
400 level timbered sta.-XC	1300 cu.ft.	892.5 cu.ft.
400 level drift	183.6 ft.	25 ft.
Pumping	150 days	none
244 level XC & drift W	225.6 ft.	217.5 ft. *

*6.9 feet subject to authorization by the Government.

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

E. C. Pattee

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
1201 N. Division St.
Spokane 2, Washington
April 28, 1955

Defense Minerals Administration
RECEIVED
MAY 12 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: John D. Bardill, G. A. Apell, and E. C. Pattee,
Bureau of Mines Engineers, Region I

Subject: Routine inspection report, Docket No. DMEA 2874 (manganese), Irving and Nelson, Plutus Mine, Silver Bow County, Montana, Contract No. Idm-E604

An inspection was made of this project on April 15, 1955, by the aforementioned Bureau of Mines engineers, accompanied by Mr. Robert Nelson, one of the Operators.

The 244 level southwest drift had been advanced about 57 feet since the last inspection on March 1, 1955. The drift has been driven a total distance of 144 feet from the starting point of the contract on November 20, 1954.

The Plutus vein in the drift has been very erratic in that it pinches and swells and is generally low grade. The Operators are disappointed in it so far.

A Brunton compass and tape survey was made of the work progress since the beginning of the contract on this level.

Starting point	BM 405 - BM 458	S 58° W	32.7 feet
	BM 458 - BM 259	S 79° W	52.4 "
	BM 259 - face	S 70° W	58.9 "

The entire drift is timbered.

~~See attached sketch.~~ attached

The status of the contract work at the time of the inspection is summarized below:

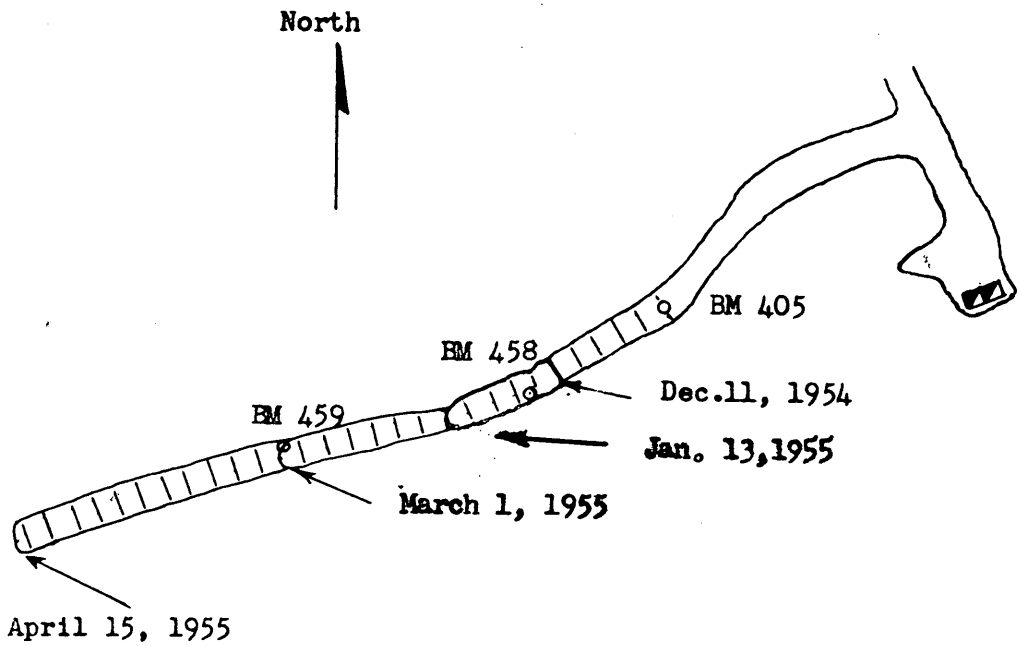
	Authorized	Completed
200 level drift west	44.4 ft.	44.4 ft.
200 level drift east	16.4 "	16.4 "
200 level raise	80 "	72 "
200 level timbering	470 "	61 "
Assaying samples	249	53
Unwater and rehabilitate Plutus shaft	56 ft.	36.5 ft.
400 level timbered station-crosscut	1300 cu.ft.	892.5 cu. ft.
400 level - drift	183.6 ft.	25 ft.
Pumping	150 days	none
244 level, crosscut and drift west	225.6	144

Government participation in the contract costs is 75 percent.

The completion date of the project is September 21, 1955, which is 24 months from the effective date of the contract.

John D. Bardill

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



244 LEVEL, PLUTUS MINE

IRVING AND NELSON, OPERATORS

Silver Bow County, Montana

Docket No. DMEA-2874
Contract No. Idm-E604
Scale 1" = 40'

J.D.B.

DEPARTMENT OF THE LIBRARY
Pacific Mineral Laboratory
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MAY 12 1955

aew

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
March 29, 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA 2874 (manganese)
Irving and Nelson, Plutus Mine, Silver Bow County, Montana,
Contract No. Idm-E604

A routine inspection of this project was made March 1, 1955, accompanied by I. G. Irving, Operator, and G. A. Apell, Bureau of Mines engineer.

The 244 level southwest drift had been advanced only 26 feet since the last inspection on January 13, 1955. Slow progress is due to employment of the miners elsewhere in the mine for production.

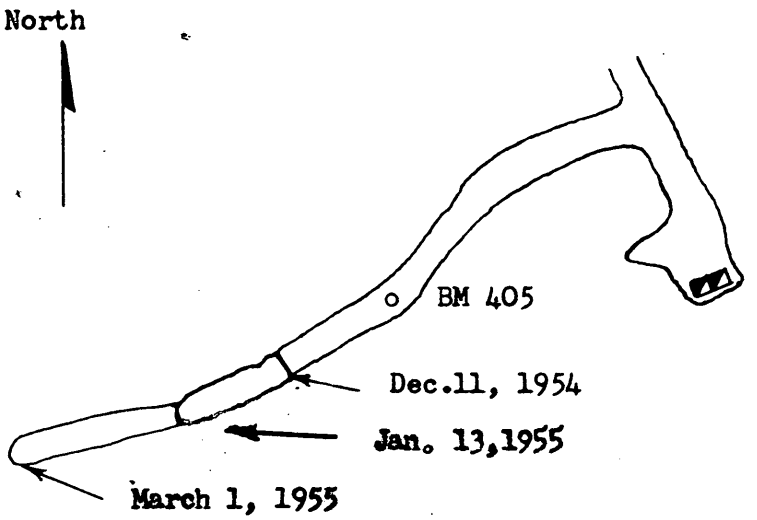
The vein is dipping about 65° to the southeast. Operator reported that the 2 feet of pink ore exposed on the hanging wall assayed about 20 percent manganese. The footwall portion of the vein, which was about 3 feet wide, contained stringers of manganese carbonate.

See attached sketch map.

John D. Bardill

John D. Bardill

Orig. & 3 cys - Wash.
USBS (2)
DMEA
M/D
AD
Apell
JDB/he



244 LEVEL, PLUTUS MINE

IRVING AND NELSON, OPERATORS

Silver Bow County, Montana

Docket No. DMEA-2874
Contract No. Idm-E604
Scale 1"= 40'

J.D.B.

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

March 7, 1955

Memorandum

To: DMEA Field Team, Region I, Northwest District

From: J. J. Quinlan and Donald F. Kellum, Geologists, U. S. Geological Survey

Subject: Interim Report, Docket No. DMEA-2874 (manganese), Irving and Nelson, Plutus Mine, Silver Bow County, Montana, Contract No. Idm-E604.

The Plutus exploration project was inspected January 29, 1955, in company with Mr. I. G. Irving.

The 244 level west drift on the Plutus vein has been advanced 63 feet west of survey station USBM 405; thus the vein has been exposed for a distance of 70 feet along its strike since the vein was first cut by the lateral portion of this drift approximately 55 feet west of the 244 level north crosscut.

The vein exposed along this 70-foot length of drift strikes S. 65° W. and dips 62°-78° SE. Where first exposed at the eastern end of this length of drift the vein is 7 to 8.5 feet wide but it narrows to the west. Although the sheared and altered zone accompanying the vein is evident across the entire width of the drift at the face, the vein is only 2.5 feet wide. The operator is maintaining a good geologic map with a sample record of the drift which is submitted with his monthly reports. The operator's samples of the vein proper show that the manganese content varies between 7.8 and 28 percent. A sample taken by the examiners across the vein exposed in the face, 2.5 feet wide, assayed 0.10 ounce of silver per ton and 11.2 percent manganese.

The results of DMEA check samples taken during a previous examination from the 200 level east drift, the DMEA raise therefrom, and the 125 level, into which the DMEA raise holed, are tabulated below:

Sample No.	Location	Width	ozs. Ag	% Mn
P-1	125 level--48 ft. east of DMEA raise	2.3 ft.	0.61	6.1
P-3	DMEA raise--68 ft. above 200 level	1.6 ft.	14.8	33.1
P-4	DMEA raise--51 ft. above 200 level	2.5 ft.	4.42	16.0
P-5	DMEA raise--27 ft. above 200 level	3.5 ft.	0.94	12.5
P-6	200 level east drift--immediately east of DMEA raise	2.3 ft.	0.20	18.3

Although not a part of the DMEA work the operator has started a program to exploit the Norwich footwall vein below the 244 level. Present plans call for unwatering and repairing of the Plutus shaft to its bottom, approximately 400 feet below collar, and development of the Norwich vein on the 300 and 400 levels from the shaft. It will be recalled that the Norwich vein is reported to be encountered in a crosscut north from the shaft on the 400 level.

At the time of the inspection the Plutus shaft had been unwatered and repaired to a point 340 feet below the collar. Below this point rehabilitation will be carried on only on a part-time basis, but the operator expects to complete rehabilitation by June 1.

Recent work in the shaft has disclosed a crosscut north from the shaft at the 300 level and another crosscut south from the shaft at the 320 level. The north crosscut is about 120 feet long and the south crosscut 50 feet long.

The 300 level north crosscut will be utilized by the operator in exploiting the vein. The operator estimates that this crosscut will have to be advanced about 275 feet to cut the Norwich footwall vein. Although no work is at present planned for the Norwich hanging wall vein on this level, it should be cut about 125 feet north of the present face. At the time of the inspection the 300 level shaft station was being enlarged. The operator expects to start the crosscut north in a week or so, and it appears that this work will have A-1 priority.

The Plutus vein is exposed near the face of the 320 level south crosscut. The vein is not a particularly impressive structure where exposed. It is marked by a footwall seam of gray gouge and a main zone consisting of 2 to 6 inches of sheared and brecciated alaskitic material which contains a few thin quartz and rhodochrosite stringers. In addition, the hanging wall of the main structure also contains a few thin stringers of quartz and rhodochrosite.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
January 24, 1955

MEMORANDUM

To: DMEA Field Team, Region I

From: John D. Bardill, Bureau of Mines, Region I

Subject: Routine inspection, Docket No. DMEA 2874 (manganese), Irving and Nelson, Plutus Mine, Silver Bow County, Montana, Contract No. Idm-E604

This project was inspected January 13, 1955, accompanied by R. H. Nelson, one of the Operators.

The 244 level southwest drift had been advanced only 23 feet on the Plutus vein since the last inspection on December 11.

Operators' average of three samples across a 4-ft. width in the face averaged 16.7 percent Mn. A 37-ton lot of rock from the drift was shipped and assayed 15.7 percent Mn.

See attached sketch map showing work progress since the last inspection on December 11.

Operators started to unwater the Plutus shaft to the old 400 level where they planned to crosscut to the Norwich vein. An old unknown level was revealed, the sill of which is approximately 300 feet below the shaft collar. The drift is roughly 125 feet long and bears N. 20° W. This level will be designated as the "400 level".

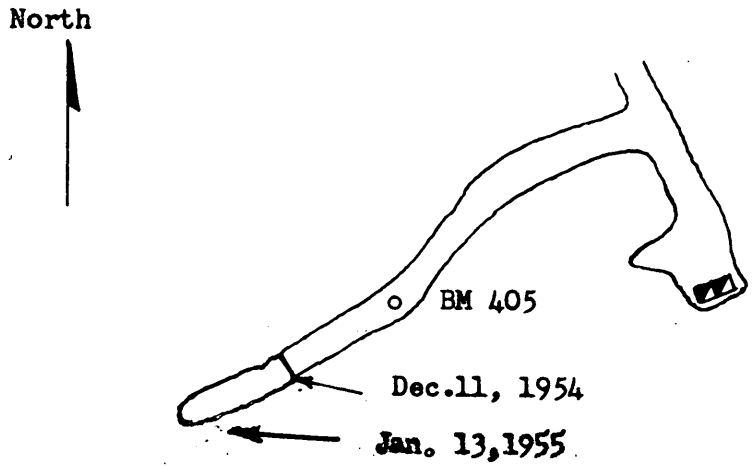
Since the discovery of this new level, Operators now plan to enlarge the station and crosscut to the Norwich vein. They expect the Norwich hanging wall vein will be cut approximately 125 feet from the present crosscut face and the footwall vein at roughly 275 feet.

At the same time Operators will continue to unwater the shaft with the present 13 H.P. submersible pump. Delivery of a new 35 H.P. Lancaster submersible pump is expected about February 1. This pump will also be installed in the shaft to hasten unwatering. The bottom level is expected to be unwatered by June 1. Previously, this level has been known as the 400 level but in the future will be known as the "500 level".

John D. Bardill

John D. Bardill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
AD
MD
JDB/he



244 LEVEL, PLUTUS MINE

IRVING AND NELSON, OPERATORS

Silver Bow County, Montana

Docket No. DMEA-2874
Contract No. Idm-E604
Scale 1"= 40'

J.D.B.

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

1201 N. Division St.
Spokane 2, Washington
January 5, 1955

MEMORANDUM

To: DMEA Field Team, Region II

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Plutus Mine, Irving and Nelson, Silver Bow County, Montana, Contract No. Idm-E604, Docket No. DMEA 2874 (manganese)

This project was inspected December 11, 1954 with R. H. Nelson, one of the Operators.

A drift was started on the Plutus vein on the 244 level to the southwest where the crosscut intersected the vein. The starting point is marked by a brass tag, BM 405, and survey spad. The drift had been driven 28 feet southwest beyond the starting point. About 3 feet of manganese carbonate was exposed in the face on the hanging wall which Nelson stated assayed 15 percent manganese.

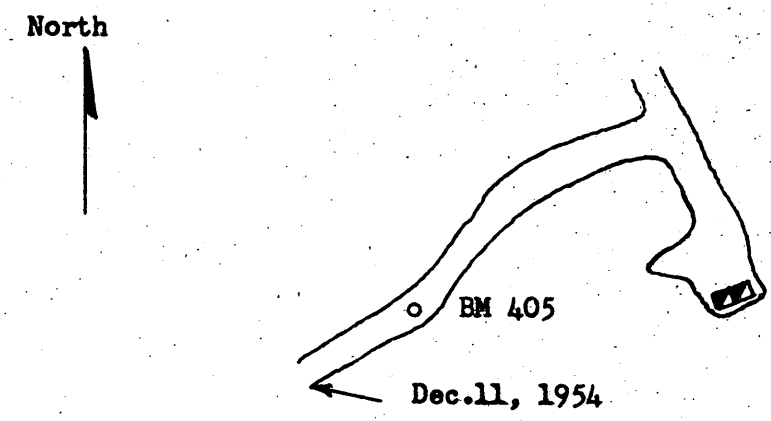
The 200 level drift east had been advanced about 25 feet at the Operator's expense and was abandoned when manganese mineralization became almost negligible.

Operator gave assurance that the 244 level southwest drift would be driven diligently.

See attached sketch map.

John D. Bardill

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



244 LEVEL, PLUTUS MINE

IRVING AND NELSON, OPERATORS

Silver Bow County, Montana

Docket No. DMEA-2874
Contract No. Idm-E604
Scale 1"= 40'

J.D.B.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED

October 22, 1954

Memorandum

To: DMEA Field Team, Region II

From: J. D. Bardill, U. S. Bureau of Mines, and J. J. Quinlan, U. S. Geological Survey

Subject: Routine inspection report, Irving and Nelson, Plutus and Norwich Mines, Silver Bow County, Montana, Docket No. DMEA-2874 (manganese), Contract No. Idm-E604.

This project was inspected by Thor Kiilsgaard and James J. Quinlan of the Geological Survey on July 23, 1954, and by John D. Bardill of the Bureau of Mines and James J. Quinlan on September 17, 1954.

The 200 level east drift has been extended to a point 59 feet east of survey station USBM 256. This represents an advance of 40 feet, at the operator's own expense, since project drifting was discontinued in this heading and funds for eastward drifting on the Plutus vein were transferred to the 275 level by amendment No. 1 to the captioned contract. This amendment was made January 6, 1954.

Extension of the 200 level east drift by the operator exposed an excellent vein containing 2.5 to 4 feet of mixed oxide and carbonate ore. This ore was exposed east of a flat eastward dipping fault. This fault appears to be the same fault encountered in the back of the 200 level west drift stope. Below the fault the ore in this stope was carbonate. However, where the shear accompanying the fault was encountered in the back of the stope the ore changed to low grade oxide ore and stoping operations were stopped. As fair ore was encountered east of the fault on the 200 level east drift a raise from this level east of the fault was considered advantageous as it would show whether or not the oxidized condition noted in the vicinity of the fault was a local condition related to the fault. Also, the raise would permit the testing of the vertical continuity of the ore exposed in the 200 level east drift. Therefore, permission was given by the Field Team in their letter of August 2, 1954, to the operator for the use of 50 feet of contract raise footage for a raise near the east end of the 200 level east drift.

At the time of Bardill's and Quinlan's inspection of September 17, 1954, the raise had been advanced 18 feet above the 200 level east drift. The vein exposed in the raise was 4 to 5 feet wide. The footwall portion, 0.4 to 2.9 feet, was strongly stained with manganese oxide while the hanging wall portion was free of any staining, and contained fair carbonate ore. The operator reported that car samples of the muck from the raise assayed 15.5 percent manganese of which 85 percent was in the form of carbonate and 15 percent oxide. This ore is being shipped to GSA under the oxide manganese program as it contains over 10 percent manganese oxide, and, therefore, cannot be shipped as carbonate ore.

Attached to this memorandum is a tabulation of the production from the Norwich and Plutus mines for the period January 1954 through August 1954. This tabulation has been prepared from the operator's monthly reports to the General Services Administration, copies of which were examined at the operator's office at the time of the September 17, 1954, inspection.

Attachment

Distribution:
DMEA (orig. & 3)
USBM (5)
Docket
Quinlan

Irving G. Irving and Robert H. Nelson
Exploration Project Contract No. Idm-E604
Docket No. DMEA-2874 (manganese)
Silver Bow County, Montana

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

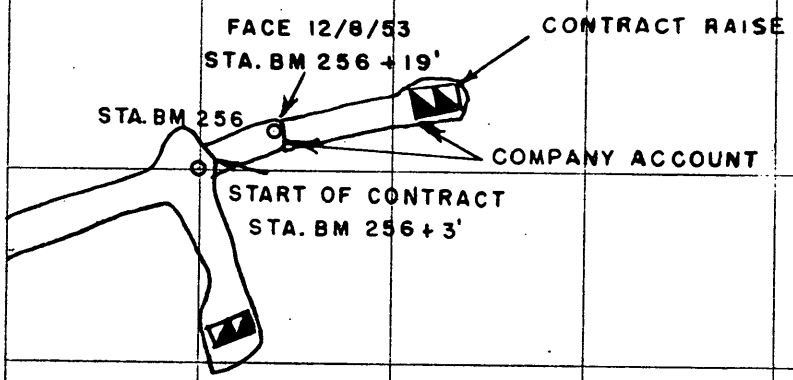
Norwich Mine Production: January 1954 - August 1954
(Carbonate ore except as noted)

Month	Tons (LDT)	% Mn	ozs. Ag	Gross received
Norwich Claim: (Production almost entirely from Norwich footwall vein)				
January	215.46	14.4	1.54	$ 2,808.57
February	305.77	18.8	3.0	6,468.11
March	188.08	15.8	4.6	3,110.66
April	179.08	16.6	3.06	3,189.50
May	373.81	19.3	5.4	8,916.76
June	594.62	22.8	7.23	18,988.86
July	209.9	15.7	6.03	3,429.11
August	426.65	21.2	13.13	13,934.16
Little Sarah Claim: (Production from Norwich footwall vein)				
January	None			
February	None			
March	None			
April	None			
May	None			
June	None			
July	108.50	24.7	8.68	$ 3,929.50
	49.98*	28.6	--	1,543.98
August	301.48	22.5	12.31	10,438.85
	113.30*	18.9	--	802.14
				841.08 1/

* Oxide ore.
1/ Additional settlement for oxide shipment made in July.

Plutus Mine Production: January 1954 - August 1954
(Carbonate ore)

Month	Tons (LDT)	% Mn	ozs. Ag	Gross received
January	None			
February	127.46	14.1	0.5	$1,575.48
March	145.74	15.1	0.7	1,903.91
April	212.81	15.7	1.0	3,211.51
May	128.79	14.2	0.51	1,559.97
June	None			
July	None			
August	None			



200 LEVEL, PLUTUS MINE

SILVER BOW COUNTY, MONTANA

Docket No. DMEA 2874

Contract No. Idm.-E604

SCALE 1" = 40'

JDB

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

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

North 1201 Division Street
Spokane 2, Washington
August 20, 1954

Memorandum

To: DMEA Field Team, Region II

From: John D. Bardill, Bureau of Mines, Region II

Subject: Routine inspection report, Irving and Nelson, Plutus and Norwich Mines, Silver Bow County, Montana, Contract Idm-E604, Docket No. DMEA 2874 (manganese)

This project was discussed with Mr. Irving G. Irving, one of the partners, at Butte, August 6, 1954.

No DMEA contract work had been done since the previous inspection on June 24, 1954.

Amendment No. 3 dated August 2, 1954 increased the completion period from 8 to 14 months.

A Field Team letter, also dated August 2, 1954, approved a request of the use of 50 feet of the raising footage for a raise to be driven from the 200 level east drift within 30 feet of the crosscut to the vein.

Operator plans to start this raise during August.

John D. Bardill

John D. Bardill

cc: Orig & 3 cys Wash.
USGS (2)
DMEA
M/D
AD

JDB:LB

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

1201 N. Division St.
Spokane 2, Washington
July 16, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: John D. Bardill, Bureau of Mines, Region II

Subject: Routine inspection report, Irving and Nelson, Plutus and Norwich mines, Silver Bow County, Montana, Contract Idm-E604, Docket No. DMEA 2874 (manganese)

This project was inspected June 24, 1954, accompanied by Mr. Robert H. Nelson, one of the operating partners.

The last work performed under the DMEA contract was during the month of January 1954 when 25 feet of drift was driven easterly on the Plutus vein on the 400 level.

Subsequent to Amendment No. 1, dated December 2, 1953, which transferred the remaining drift footage from the 200 level east to the 400 level east, the Operator drove the 200 level east drift an additional 28 feet at his own expense. Approximately 18" of vein material in the drift face, consisting of about one-half each of pink and black manganese, reportedly assayed 22 percent manganese. Ten feet back from the face a 41" cut assayed 19.8 percent manganese. Fifteen cars of ore from the drift were said to assay 15.6 percent manganese.

Anticipating approval of Amendment No. 3, which would provide for drifting easterly and crosscutting on the hanging wall Norwich vein on the 244 level, the Operator had drifted about 8 feet east. Reportedly, 2.7 feet of vein material in the face assayed 18.6 percent manganese and 0.8 oz. silver, and 22 tram cars of ore from the drift averaged 17.4 percent manganese and 0.9 oz. silver per ton. Footage driven in this drift before June 29, 1954, the effective date of the amendment, will be at the Operator's expense.

The Operators, in a letter dated June 28, 1954 to the Executive Officer, DMEA Field Team, gave assurance that as soon as Amendment No. 3 had been approved work would be started on the Norwich hanging wall vein under the DMEA contract.

John D. Bardill

John D. Bardill

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

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

1201 N. Division St.
Spokane 2, Washington
May 4, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: John D. Bardill, Bureau of Mines, Region II

Subject: Routine inspection report, Irving and Nelson (Plutus mine), Silver Bow County, Montana, Contract Idm-E604, Docket No. DMEA 2874 (manganese)

The work progress of this project was discussed with Mr. I. G. Irving, one of the Operators, at Butte, April 29, 1954.

No work has been done under the DMEA contract since my last routine inspection on March 4. Mr. Irving stated that it has been necessary to employ the entire mine crew on production and preparation of a stope on the Norwich vein to provide funds to meet some of their obligations.

Amendment No. 2, dated April 6, 1954, deletes Item 1 in Amendment No. 1, dated January 6, 1954, and substitutes the following:

1. Crosscut in a southerly direction for not more than 15 feet to expose the entire vein from the present face of the west crosscut on the 244 level and then drift in a westerly direction on the vein for not more than 210.6 feet, as illustrated in Fig. 3 attached to this amendment and made a part hereof.

The change of the drifting program to a lower level is justified because low-grade oxidized manganese was encountered about 15 feet above the back of the west 200 level drift.

Mr. Irving assured me definitely that work under the contract would be resumed not later than the middle of May.

John D. Bardill

John D. Bardill

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

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

1201 N. Division St.
Spokane 2, Washington
March 26, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: John D. Bardill, Bureau of Mines, Region II

Subject: Routine inspection, Irving and Nelson (Plutus Mine), Silver Bow County, Montana, Contract Idm-E604, Docket No. DMEA 2874 (manganese)

A routine inspection of this project was made March 4, 1954 accompanied by Mr. R. H. Nelson, one of the Operators.

No work had been done on either the 200 level east or west drifts since the last inspection on December 8, 1953. The mine crew has been employed to advance the 244 level drift to the footwall vein under their GSA contract.

The contract was amended to allow unwatering and rehabilitation of the shaft to a new level not less than 25 feet nor more than 56 feet below the present 244 level, at a cost of $35 per foot, and at the new "400" level to cut and timber a station-crosscut approximately 1,300 cu.ft. at $1.24 per cu.ft. Not more than 183.6 feet of easterly drifting on the Plutus vein from the station-crosscut was provided.

The shaft was rehabilitated 36.5 feet below the 244 level and a station-crosscut excavated about 8½'x7'x15'or a total of 892.5 cu. ft. to the Plutus vein. A drift 25 feet long had been driven from the crosscut on the vein, of which about the first 20 feet strikes S. 80° E. and the last 5 feet about N. 80° E.

The vein structure in the face of the drift is about 5 feet wide but contains only narrow low-grade stringers. See copy of Operator's assay map of the 400 level.

Operator states that preparation of stopes for much needed production from the Norwich vein has delayed work on the 400 level but gave assurance it will be resumed shortly.

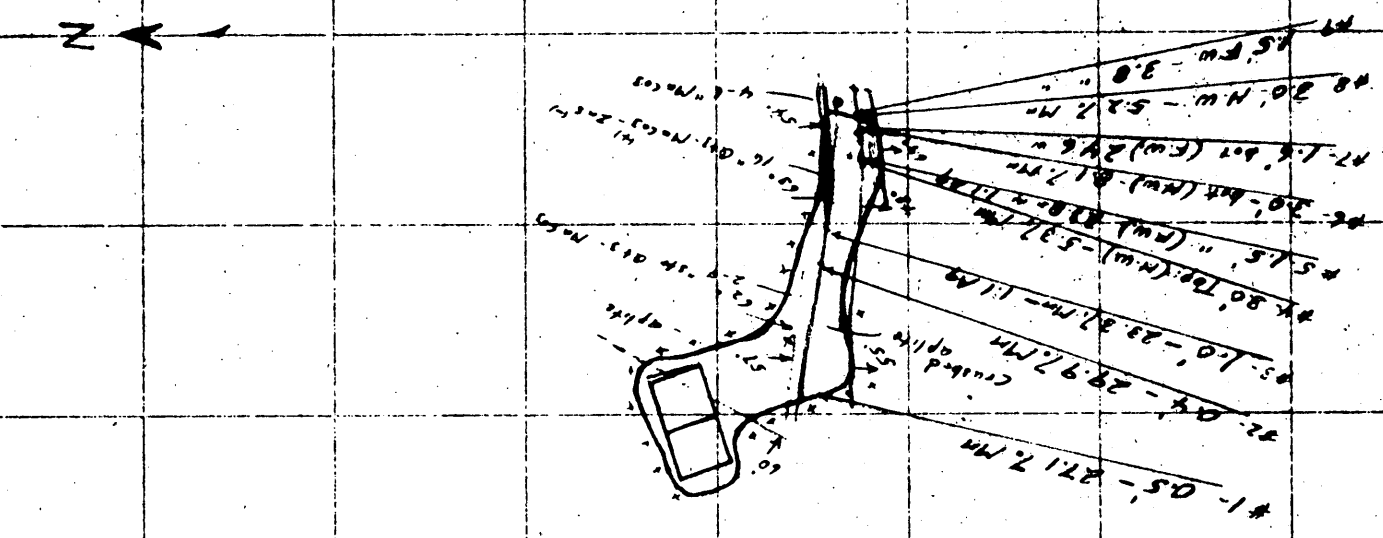
John D. Bardill

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

PLUTUS MINE
(Manganese)
Butte, Silver Bow Co., Montana
"400" Level
(Actually 275' below collar)

DMEA-2874 -Contract No. Ldm-E-604
1" equals 20'

Irving G. Irving and Robert H. Nelson



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

1201 N. Division St.
Spokane 2, Washington
January 20, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: John D. Bardill, Bureau of Mines, Region II

Subject: Routine inspection, Irving and Nelson (Plutus Mine), Silver Bow County, Montana, Contract Idm-E604, Docket No. DMEA 2874 (manganese)

A routine inspection of the work progress at this project was made December 8, 1953, accompanied by Messrs. I. G. Irving and R. H. Nelson, Operators.

The 200 level west drift had been advanced 17 feet west since the last inspection on October 22, 1953. A 6-inch vein estimated to contain 6 to 7 percent manganese is exposed in the face of the drift.

The 200 level east drift had also been advanced 17 feet east when work was stopped. A narrow vein of low-grade oxidized manganese carbonate was exposed in this face.

Work was suspended at times so that a stope could be started about 70 feet west of Station BM 256 for much needed production to provide funds to maintain operations. The mineralization had widened and had turned to a mixture of low-grade oxide and carbonates, which is not marketable.

The pinching of the vein in the face of the 200 west drift, oxidation of the manganese carbonate just above the back of the drift in the new stope, and low-grade oxide in the face of the 200 level east drift was very disappointing to the Operators. Further geological study of the structure leads them to believe that the 200 level is at the top of a manganese carbonate ore shoot which is turning to low-grade manganese oxide. Surface exposures correlated with mineralization on the 200 level seem to indicate that the ends of the ore shoot have been exposed at both extremities of the drift and that it may have a rake of about 45° to the east.

Based on this new knowledge, Operator requested an amendment to the contract to use sufficient funds from the raising allotment to unwater and rehabilitate the Plutus shaft to a depth of not less than 25 feet nor more than 56 feet, and excavate a station and crosscut east to

the vein. The balance of the footage (183.3 ft.) left for the 200 level east is to be allowed for drifting east on the vein on the new "400" level. The term "400" is used to designate the new level for mine signal purposes; it is actually about 275 feet below the shaft collar. At the time of this writing, the contract had been amended and the Operators have commenced the new work.

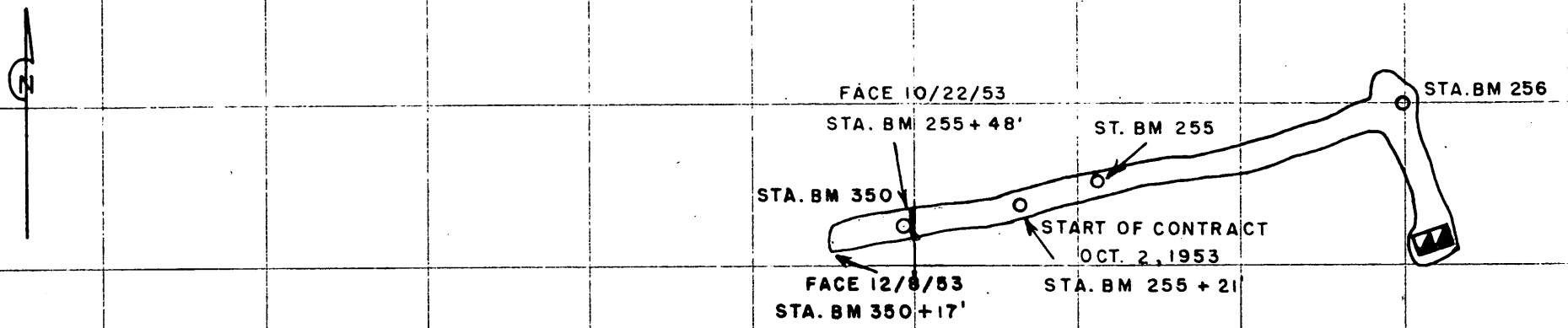
Operators reported the following ore shipments to the GSA depot at Butte during November 1953.

Lot #13,- 31.0 LDT	assaying	16.1% Mn,	0.9 oz. Ag
Lot #14,- 34.6 LDT	"	12.0% Mn,	0.6 oz. Ag
Lot #15,- 35.2 LDT	"	17.7% Mn,	0.9 oz. Ag

Survey station BM 350 is located 48.0 feet S. 76° W. of BM 255. The 200 level west drift face was 17.3 feet S. 76° W. from BM 350. See attached sketches for survey point locations and work progress.

John D. Bardill

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



200 LEVEL, PLUTUS MINE

SILVER BOW COUNTY, MONTANA

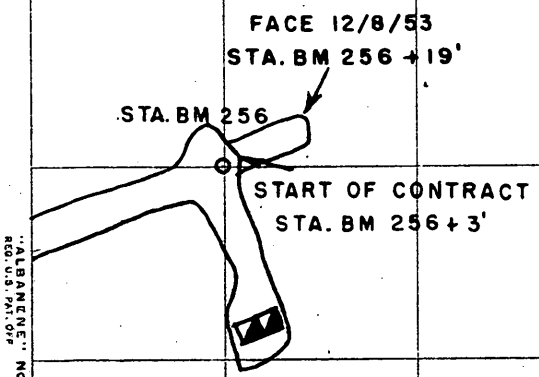
Docket No. DMEA 2874

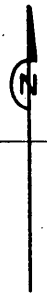
Contract No. Idm.-E604

SCALE 1" = 40'

JDB

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





200 LEVEL, PLUTUS MINE

SILVER BOW COUNTY, MONTANA

Docket No. DMEA 2874

Contract No. Idm.-E604

SCALE 1" = 40'

JDB

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

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

1201 N. Division St.
Spokane 2, Washington
November 10, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: John D. Bardill, Bureau of Mines

Subject: Routine inspection, Docket No. DMEA 2874 (manganese), Contract No. Idm-E604, Irving and Nelson (Plutus mine), Silver Bow County, Montana

A routine inspection was made on October 22, accompanied by Messrs. I. G. Irving and R. H. Nelson, Operators.

The project consists of drifting approximately 270 feet westerly and 200 feet easterly from the present faces along the Plutus vein on the 200 level. About 200 feet of raises may be allowed later, subject to the approval of the Field Team. One drift was started westerly, on October 2, from station BM 255 + 21 feet. At the time of the inspection this drift had been advanced 27 feet. The heavy ground will probably require timbering the entire length.

The drift east will commence from station BM 256 + 3 feet in the near future. BM 255 is 99 feet west of BM 256. Refer to the attached sketch map "200 Level, Plutus Mine" for location of survey stations and contract starting points.

A raise was started about 70 feet west of BM 256 at company expense. Exploration and development rock from the drift and raise designated Plutus Lot 12 will constitute the first ore shipment under the terms of the DMEA contract. Operator has authorized General Services Administration to deduct any royalty repayments due under the contract for ores shipped to the GSA manganese ore purchasing depot at Butte.

The vein structure exposed in the drift is strong. About 5 feet of ore estimated at 20 percent Mn is present in the east face near BM 256. The west drift face showed about 4 feet of manganese-bearing rock estimated at 8 percent Mn.

Operators' workmanship is very satisfactory.

John D. Bardill

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

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

October 19, 1953

Memorandum

To: DMEA Field Team, Region II

From: Howard B. Nickelson, geologist, U. S. Geological Survey

Subject: Routine inspection, Docket No. DMEA No. 2874 (manganese)
Irving and Nelson, Plutus mine, Silver Bow County, Montana
Contract Idm-E604

The Plutus mine was visited on October 5, 1953 by the writer, accompanied by Mr. Nelson, one of the partners.

The 200 and 243 levels were visited. The 200 level has been advanced 49 feet west of USBM Tag 255. Work on the DMEA contract began 21 feet west of USBM Tag 255 making a total of 28 feet advance under the contract.

The enclosed geological and assay maps show the grade and geology of the Plutus vein on the 200 level. (These maps were copied from Mr. Nelson's geological field sheet.)

The map of the 243 level shows the vein in the shaft and the shipping and sample results.

The operators plan to drive a crosscut to the vein on the 243 level then drive an 8-post raise to the 200 level approximately 70 feet from the 200 level station for an ore pass. This work will be done at their own expense.

Both drifts will be driven ahead on the 200 level within a couple of weeks. The crosscut to the Norwich vein under the DMPA program and the crosscut to the Plutus vein both on the 243 level is holding up the advance on the DMEA 200 drift because of hoisting problems. The proposed raise will eliminate this hoisting problem by allowing ore and waste storage.

The Operator discussed the procedure of submitting the monthly vouchers and was informed to submit them the first of every month regardless of a visit by a member of the Bureau of Mines Field Team. A question has arisen in Mr. Irving's mind about the payment of royalty on the future

mining of a block of ore above the 200 drift that was driven before the contract date of the DMEA contract. Mr. Irving will be informed royalty will be due the Government on all ore mined from the Plutus vein, after the effective date of the DMEA contract.

Workmanship is satisfactory and a good job of timbering with Rocker drift sets has been done. All the 200 level has been timbered.

Enclosures - 2

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

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

1201 N. Division St.
Spokane 2, Washington
October 5, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: John S. McNabb, Mining Engineer, Bureau of Mines

Subject: Initial inspection of the Plutus mine, Silver Bow County, Montana, Irving and Nelson, partners, Docket No. DMEA 2874 (manganese), Contract Idm-E604

The Plutus mine was inspected on October 1, 1953 in the company of Robert Nelson, partner.

Work under the DMEA loan started on October 1. All lateral work under the contract will be performed on the 200-ft. level. The unit cost contract covers drifting and raising.

The attached map of the 200-ft. level made on October 1 shows the starting points of work under the DMEA project. Survey tags USBM 255 and 256 were placed back of the west and east drift faces. DMEA work will commence 21 feet west of USBM 255 and 3 feet east of USBM 256.

Both the west and east drift faces are in ore. The west face shows about 4-1/2 feet of 21% manganese and the east face shows about 3 feet of 15% manganese. Royalties on ore will be due the DMEA as of October 1, 1953, the starting date of active DMEA work.

Work at the Plutus mine will be performed on a two-shift basis. Two miners, a topman, a hoisting engineer, and the supervising engineer will constitute the crew employed on the project for one shift. Non-DMEA work will be carried on simultaneously on the 250-ft. level. This work consists of driving a crosscut to the north to intersect the Norwich vein. Funds have been provided in the form of a GSA production loan.

John S. McNabb

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

☐ Audited

☐ Certified

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of 12.31.55
Incl. Voucher for _____

☐ Actual Cost

☑ Agreed Unit Costs

Name Irving & Nelson Plutus Mine

State Silver Bow County, Montana.

Commodity Manganese

Docket No. 2874

Idm-E No. 604

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	470 @ $34.00	$15,980.00	467.0	15,878.00	11,908.50
Timbering	470 @ 5.00	2,350.00	454.9	2,274.50	1,705.87.5
Raising	80 @ 35.00	2,800.00	72.0	2,520.00	1,890.00
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation, station cutting		1300 cu ft @ 1.24 = 1,612.00		892.5 cu ft = 1,106.70	830.02.5
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation, shaft repair		56' @ 35.00 1,960.00		36.5 @ 35.00 = 1,277.50	958.12.5
New Building, Improvements, etc.					
Other (Specify) Sampling		249 @ 2.00 = 498.00		67 @ 2.00 = 134.00	100.50
Pumping, 150 days @ 4.20		630.00			
Totals		$25,830.00		$23,190.70	17,393.02.5

Prepared by S. P. Holt

71626

☐ Audited

☐ Certified

W[illegible] ANALYSIS SHEET - DMEA PROJECT[illegible]

Analysis as of 2-28-55

Incl. Voucher for _____

☐ Actual Cost

☑ Agreed Unit Costs

Name IRVING E NELSON

Docket No. 2874

State MONTANA

Commodity TUNGSTEN

Idm-E No. 604

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting			180.8'	7,003.70	
Raising			72'	2,520.00	
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation				1,106.70	
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation				1,277.50	
New Building, Improvements, etc.					
Other (Specify) ASSAYING				96.00	
Totals				12,003.90	

Prepared by JRC.

71626

☐ Audited

☐ Certified

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of 12-16-54
Incl. Voucher for Sept 54

☐ Actual Cost

☑ Agreed Unit Costs

Name Irving & Irving

Docket No. 2874

State Montana

Commodity Manganese

Idm-E No. 604

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	425 ~~470~~	18330 ~~23350~~ ~~15980~~	86	3324	3324
Raising	80 ~~200~~	2800 ~~7000~~	35	1225	1225
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation		1612		1107	1107
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation		1960		1278	1278
New Building, Improvements, etc.					
Other (Specify) Assayers and pumping		1128		32	32
Totals		25,830		6966	6966

Prepared by [illegible]

71626

IN REPLY REFER TO:

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

September 21, 1966

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 5 1966
FILE CODE
120 M
110

The Anaconda Company
526 Hennessy Building
Butte, Montana

Re: DMEA-2874 (Manganese)
Umont Mining, Inc., Assignee
Plutus and Norwich Claims
Silver Bow County, Montana
Amended Contract Adm E-604

Gentlemen:

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

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

Sincerely yours,

Frank E. Johnson

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

February 1966 to September 21, 1966

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

February 1966 to September 21, 1966

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

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

	Quantity	Value

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

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name Charles O Goddard Jr. Title Geologist in Charge of Butte Mines
The Anaconda Company

Address 526 Hennessy Bldg., Butte, Mont. Date September 30, 1966

IN REPLY REFER TO:

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

February 17, 1966

OFFICIAL COPY
O. M. E.
RECEIVED
FEB 25 1966

INITIALS	CODE
	110
2/28	120
	120
	220

The Anaconda Company
526 Hennessy Building
Butte, Montana

Re: DMEA-2874 (Manganese)
Umont Mining, Inc., Assignee
Plutus and Norwich Claims
Silver Bow County, Montana
Amended Contract Idm-E604

Gentlemen:

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

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

Sincerely yours,

Frank E. Johnson

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

DMEA-2874
Idm-E604

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

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

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

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name Edward T. Shea Title Chief Geologist - Montana Division
The Anaconda Company

Address 526 Hennessy Bldg., Butte, Mont. Date February 22, 1966

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

September 14, 1964

Re: DMEA-2874 (Manganese)
Umont Mining, Inc., Assignee
Plutus and Norwich Claims
Silver Bow County, Montana
Amended Contract Idm-E604

The Anaconda Company
526 Hennessy Building
Butte, Montana

Gentlemen:

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

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

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

Mr. Selfridge says we can accept this one without signature

OFFICIAL FILE COPY
O. M. E.
RECEIVED SEP 24 1964

DATE	INITIALS	CODE
		~~100~~
9/24	FY	~~110~~
9/25	mm	120
		~~120~~
		220

MME Form 63
Revised 3-62

DMEA-2874
Idm-E604

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

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

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

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name E. P. Shea Title Chief Geologist, Montana Division

Address Hennessy Bldg., Butte, Mont. Date September 21, 1964

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

OFFICIAL FILE COPY
O. M. E.

October 18, 1963

RECEIVED OCT 28 1963

DATE	INITIALS	CODE
10/28		800
		100
10/29		100
10/29	Murphy	500
		820

The Anaconda Company
526
Butte, Montana

Re: DMEA-2874 (Manganese)
Umont Mining, Inc.,Assignee
Plutus and Norwich Claims
Silver Bow County, Montana
Amended Contract Idm-E604

Gentlemen:

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

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

Sincerely yours,

F M Murphy

F. M. Murphy, Acting Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since August 11, 1962, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since August 11, 1962, has there been any production from the land subject to the contract? Yes ☐ No ☒

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

	Quantity	Value
	None	

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

Type	Quantity		Estimated Grade	Location
Ore	None	Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name Edward F. Shea Title Chief Geologist, Montana Div. The Anaconda Company

Address 526 Hennessy Building Butte, Montana Date Oct. 25, 1963

4511

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

August 9, 1962

Re: DMEA-2874 (Manganese)
Umont Mining Co., Assignee
Plutus & Norwich Claims
Silver Bow County, Montana
Amended Contract Idm-E604

Umont Mining, Inc.
King Street Dock
Burlington, Vermont

Gentlemen:

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

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

Sincerely yours,

W. R. Griswold, Chief
Division of Minerals

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

DATE	INITIALS	CODE
8/13	[illegible]	~~800~~
		120
	On Same	100
8/13	[illegible]	~~110~~
"	Reserved	500
8/14	~~[illegible]~~	~~580~~
	S.P.H	220

Cy to Region I without copy of deed between Umont Mining, Inc. and The Anaconda Company.

See Director's letter to Umont Mining, Inc. 9/12/62

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since April 13, 1960, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes [X] No [ ]

Property Interests conveyed without reservations to Anaconda Company dated December 20, 1961. True copy attached.

2. Since April 13, 1960, has there been any production from the land subject to the contract? Yes [ ] No [X]

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

	Quantity	Value

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

NONE

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name L. P. Evans, Jr. Title President

Address Burlington, Vermont Date August 11, 1962

4511

DMEA Form 18
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ANALYSIS OF SEMIANNUAL REPORT OF CERTIFIED PROJECT

Prepare in duplicate. File original in Official Docket. Send copy

To: Statistics Branch (Code 210)

From: Division of **Division of Iron and Ferro-Alloys**

Report Period **1.1-6.30.58**

DMEA No.	Operator	Contract No.
2874	**Umont Mining Company, Inc.**	E604

ORE ESTIMATES

	Tons - **Long dry**	Analysis
DMEA	*	
Operator to date	*	
Total	*	
Production to date	23,039.9759 Mn carbonate ore 311.0820 Mn oxide ore	
Ore in ground	*	

INVESTMENT **None reported**

Type	Size		Feet	Cost
Shafts				
Winzes				
Drifts and Crosscuts				
Raises				
Drilling	Type			
Rehabilitation	Description			

FACILITIES

Mine Plant		
Mill		
Roads		

REMARKS

*** Ore reserve figures awaiting Final Report of Field Team.**

All operations stopped on March 6, 1958, and the pumps were pulled on or about March 10, 1958. The surface facilities have been dismantled, the equipment removed and the shaft sealed. The underground is totally inaccessible.

copy to W. Chamberlain

Prepared by Stephen P. Holt Date 8.22.58
Stephen P. Holt

31398

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 31 1958

DATE	INITIALS	CODE
7/31	C	220
31	Com	100
"	[illegible]	110
8/1	[illegible]	800
	WSM	400

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: January 1 to June 30, 1958

Date of report: May 31, 1958

Operator: Umont Mining, Inc., assignee of and successor to Irving G. Irving and Robert H. Nelson, Partners, Butte, Montana

Mine name: Plutus and Norwich claims

County and State: Silver Bow County, Montana

Docket number and commodity: DMEA-2874 (manganese)

Contract number: Idm-E604

Folded

Date of contract: September 21, 1953 (prior contract)

Date of certification: August 9, 1956

Expiration date of royalty payments: September 21, 1966 (13 years)

Total amount of contract:	$108,510.70
Total expenditures under contract:	59,349.83
Amount of Government participation at 75%:	44,512.39
Royalty payments this period:	$ 223.01
Previous royalty payments:	28,558.55
Total royalty payments to date:	28,781.56
Less refund of overpayment	248.41
Corrected total	$ 28,533.15
Percent of Government participation repaid:	64.1%
Royalty due on production to date:	none

Royalty remarks: Royalty audit by C. A. Turner, dated March 3, 1958, covers period of April 5, 1955 to December 31, 1957. This disclosed an overpayment by the Operator of $248.41 and this was refunded on June 6, 1958.

	Tons	Analysis
Original estimate of DMEA reserves (from Field Team final report) Mines ___ Survey ___ Joint ___	Final report not completed	
Revised estimate of DMEA reserves (Field Team) Mines___ Survey ___ Joint ___		
Increase of reserves by work performed subsequent to DMEA project work	None	
Production of DMEA ore (this period)	248.1358 LDT Mn carbonate none LDT Mn oxide	
(previous)	22,791.8401 LDT Mn carbonate 311.0820 LDT Mn oxide	
(to date)	23,039.9759 LDT Mn carbonate 311.0820 LDT Mn oxide	
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: All operations stopped on March 6, 1958 and the pumps were pulled on or about March 10, 1958. The surface facilities have been dismantled, the equipment removed and the shaft sealed. The underground is totally inaccessible.

INVESTMENT DATA: none

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

Signed: John A. Bowsher (Engineer)

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 May, 1958 Docket No. DMEA 2874 Contract No. Idm-3604
Operator's Name Umont Mining, Inc. Minerals Manganese
Address 912 Kearns Building, Salt Lake City 1, Utah
Contract Amount, $ 108,510.70 Government Participation: 75 % Amount, $ 81,383.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Now Claimed	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts: Shop Form						
Installation of facilities and pumping equipment 300 level Plutus shaft		2,082.00	2,082.00		2082.00	2082.00
Drilling						
Rehabilitate Plutus shaft		3,148.00	3,148.00		3148.00	3148.00
Bulldozing						
Rehabilitate 600 station		1,600.00	1,600.00		1600.00	1600.00
Crosscutting						
Rehabilitate crosscut to Norwich		4,100.00	4,100.00		4100.00	4100.00
Drifting						
(2) Labor and Supervision:						
Raise Drifting	896.00	12,512.00	12,608.00	96.00	12512.00	12608.00
Normal Timbering		3,710.00	3,710.00		3710.00	3710.00
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling		600.00	600.00		600.00	600.00
Diamond Drilling-Underground		75.00	75.00		414.63	414.63
Diamond Drilling - Surface		339.63	339.63			
(4) Operating Equipment:						
Assays		213.50	213.50		213.50	213.50
Purchase						
TOTAL COST STAGE II		28,380.13	28,476.13			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Bulldozing		105.00	105.00		105.00	105.00
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Diamond Drilling-Surface		6,828.00	6,828.00		7578.00	7578.00
Cementing, redrilling or reaming		750.00	750.00			
(8) Contingencies (specify):						
TOTAL COST STAGE III		7,683.00	7,683.00			
TOTAL COST STAGE I		23,190.70	23,190.70		23190.70	23190.70
TOTALS		59,253.83	59,349.83	96.00	59253.83	59349.83

I certify that the above bill is correct and just and that payment therefor has not been received.
Date June 5, 1958 *Payee Umont Mining, Inc.

Per Dowling P. Wheeler Jr. Title General Manager

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

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

(Instructions on reverse)

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

$ 72.00

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 6/10/58 Vou. No. 2179

(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 604 in accordance with the terms of the contract.

Signature /s/ Stephen W. Zoldok Title Mining Engr. Date June 9, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date June 10, 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1958 Docket No. DMEA 2874 Contract No. Idm-E604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address 912 Kearns Building, Salt Lake City 1, Utah

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.	96.00	3	12,603.00	394.0	32.00	550	32.00
Crosscutting Rehabilitat.	ft.			4,100.00	200.0	20.50	240	20.50
Normal Timbering	ft.			3,710.00	371.0	10.00	550	10.00
Repair Plutus Shaft and Pump	job			2,082.00	comp.	2,082.00	job	2,082.00
Rehabilitate Plutus shaft	job			3,148.00	comp.	3,148.00	job	3,148.00
Rehabilitate 200 station	cu.ft.			1,600.00	3200	.50	3200	.50
Diamond drilling, Undergr.	ft.			414.63	86.5	4.79	920	5.00
Diamond Drilling, Surface	ft.			7,578.00	1138.0	6.70	1700	6.00
Stripping Bulldozer	hr.			105.00	7.5	14.00	15	14.00
Trenching Spiling	ft.			600.00	20.0	30.00	50	30.00
Test Pits Assaying	Sample			213.50	61.0	3.5	140	3.50
Roads and Trails								
TOTAL DISTRIBUTED COSTS		96.00	3	36,159.13				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage I				23,190.70				
TOTAL COSTS		96.00		59,349.83				

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

Date 6/4/58 Operator Umont Mining, Inc.

Per Dorley P. Wilcox Title General Manager

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

REMARKS:

(Instructions on reverse)

(For Government use only)

6-9-58
/s/ Stephen W. Zoldok
Mining Engr.

INSTRUCTIONS

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

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

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

GPO 872894

X

June 5, 1958

Mr. A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
1201 N. Division Street
Spokane 2, Washington

Re: Docket No. DMEA-2874 (Manganese)
Amended Contract No. Idm-E604

Dear Mr. Weissenborn:

Enclosed please find five copies each of MF-104 and 104A claiming the additional payment, amounting to $72.00, referred to in Mr. C. A. Turner's report of reviews dated May 8, 1958.

I trust you will find the forms properly filled out.

Inasmuch as we have closed our Butte office the address on the forms is now given as 912 Kearns Building, Salt Lake City, 1, Utah.

Note change of address

The last drifting done, under this DMEA contract, on the 400 level of the Norwich mine was in the first two days of December, 1956. Perhaps the MF104 and 104A forms should have that date (month of December, 1956, instead of month of May, 1958). If the dates need be changed please do so without sending the forms back to me, if you can.

Thanks for bringing our oversight to our attention.

Yours very truly,

Dooley P. Wheeler

Dooley P. Wheeler, Jr.
General Manager

DPW:lh

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. 2176

2874

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

Voucher prepared at Spokane, Washington 6/6/58
(Give place and date)

THE UNITED STATES, Dr., Payee's Account No. Idm-0604

To Uranit Mining, Inc.
(Payee)

912 Kearns Building Salt Lake City, Utah
(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.
PAYMENT: Complete ☐ Partial ☐ Final ☐		Refund of royalty overpayment (See royalty audit report and certificate by IDA Auditor C. A. Turner, dated March 3, 1958). Refund claimed in letter dated April 15, 1958, from U. F. Criswell, Resident Manager, Uranit Mining Co.				248	41
Shipped from	to	Weight	Government B/L No.		Total	248	41

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 248 41

(Signature or initials) A. L.

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)

Per .....

Title .....

* 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.

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

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

Budget Bureau No. 42-R1036.5

RECEIVED JAN 27 1952 D.M.E.

JAN 16 1952

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

Month of December 1951 Docket No. DMEA 237 Contract No. [illegible]
Operator's Name Uhont Mining, Inc. Minerals Manganese
Address [illegible] Butte, Montana
Contract Amount, $[illegible] Government Participation: 75 % Amount, $[illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY (WSM): Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts: Short Form [illegible]						
Drilling		2032.00	2032.00			
Bulldozing		312.00	312.00			
Crosscutting		1600.00	1600.00			
Drifting						
[illegible]		4100.00	4100.00			
(2) Labor and Supervision:						
Labor		12512.00	12512.00			
Supervision		2710.00	2710.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiller		600.00	600.00			
[illegible]		114.63	114.63			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		213.50	213.50			
Payroll Taxes						
Liability Insurance						
[illegible]		757.00	757.00			
(8) Contingencies (specify):						
[illegible]		105.00	105.00			
[illegible] 2		23100.70	23100.70			
TOTALS		59253.33	59253.33			

Memo

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

Date 1/13/52 *Payee Uhont Mining, Inc.

By R. J. Boswell Title Resident Manager

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing for the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Smith, 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:

$

Signature
(Authorized Certifying Officer)

Date Vou. No.
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED JAN 27 1958 D.M.E.A.

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	ft.			[illegible]	[illegible]	[illegible]	550	32.00
Crosscutting	ft.			[illegible]	[illegible]	[illegible]	260	20.50
Raising	ft.			[illegible]	[illegible]	[illegible]	550	10.00
[illegible]	ft.			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	job			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	32.00	[illegible]	3200	[illegible]
[illegible] Drill	ft.			[illegible]	[illegible]	[illegible]	920	[illegible]
Surface Auger drilling	ft.			[illegible]	[illegible]	[illegible]	[illegible]	6.00
Stripping								
Trenching	ft.			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Test Pits	ft.			[illegible]	[illegible]	[illegible]	50	[illegible]
Roads and Trails								
Assaying	[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.								
Store 1				23,190.71				
Total Costs				[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)

INSTRUCTIONS

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

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

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

GPO 83-38475

JAN 16 1958

NORWICH MINE

Silver Bow County
Montana

DMEA-2374 Contract Idm-1604 Manganese

NARRATIVE REPORT

Period December 1, 1957 through December 31, 1957

None of the work in progress at the Norwich Mine during December was covered by DMEA contract, and nothing has been vouchered for work performed on the accompanying forms.

During the month regular mining operations were prosecuted, as usual, on a two shift basis during the course of which about 1484 long dry tons of ore were produced and sold having an estimated gross value of approximately $45,000.00, and an average manganese content of about 23.3%.

The ore produced during December was sold under the following 9 lots 2 of which (Raise lot numbers 177 and 178 combined, comprised of approximately 118.5 L.D.T.) represent ore produced from the Norwich mining claim, and were therefore sold subject to a deduction of 5% of its gross value for payment to DMEA. The remaining 7 lots, Little Sarah numbers 18 through 26 (excepting Little Sarah numbers 24 and 25) comprised of 1365.4 L.D.T. were produced from the Little Sarah Mining claim, and were sold without any deduction to DMEA for the usual royalty.

During the current month, there was no work of a development or exploratory nature carried on, although some stope fill was placed, and a small amount of level repair accomplished.

We are enclosing herewith 5 copies of the long section showing the progress of stoping operations in both Norwich and Little Sarah ground. As an inspection will show, all the ore remaining in the Norwich Claim of commercial interest was extracted during December, and the bulk of the month's production was from Little Sarah ground. In the future all production will be from this source.

Yours very truly,

Wilbur F. Criswell
Resident Manager

WFC/rlg

Encl.

RECEIVED
BUREAU OF MINES
DEC 19 1957
SPOKANE, WASH.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

DEC 13 REC'D

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1957 Docket No. DMEA 2374 Contract No. Idm-F604
Operator's Name Umont Mining, Inc. Minerals Manganese
Address 506 Silver Bow Block Butte, Montana
Contract Amount, $ 103,510.70 Government Participation: 75 % Amount, $ 81,333.00

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 Contracts: Short Form						
Drilling Install Pump Equipment		2082.00	2082.00			
Shaft Building Rehabilitation		3148.00	3148.00			
Enlarge & rehabilitate 400 Station		1600.00	1600.00			
Drifting						
400 x-cut rehabilitation		4100.00	4100.00			
(2) Labor and Supervision:						
Labor Drifting 400 Level		12512.00	12512.00			
Supervision Timbering		3710.00	3710.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling		600.00	600.00			
Underground Drilling		414.63	414.63			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		213.50	213.50			
Payroll Taxes						
Liability Insurance						
Surface Drilling		7578.00	7578.00			
(8) Contingencies (specify):						
Dull dozing		105.00	105.00			
Stage 2		23190.70	23190.70			
TOTALS		59253.83	59253.83			

WSM

Memo Only

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

Date 12/6/57 *Payee Umont Mining, Inc.

Per W. F. Russwell Title Resident Manager

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

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

(Instructions on reverse)

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

$

Signature
(Authorized Certifying Officer)

Date Vou. No.
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1957 Docket No. DMEA 2074 Contract No. Idm-860h
Operator's Name Unont Mining, Inc. Minerals Manganese
Address 536 Silver Bow Block Butte, 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.			12,512.00	391.0	32.00	550	32.00
100 Crosscutting Rehabilitation	ft.			4,100.00	200.0	20.50	240	20.50
Raising Drift Timbering	ft.			3,710.00	371.0	10.00	550	10.00
Shafts Install Pumps & Facilities				2,082.00	comp.	2082.00	job	2082.00
Winzes Shaft Rehab.	job			3,148.00	comp.	3148.00	job	3148.00
100 Stoping Enlarging	cu.ft.			1,600.00	32.00	0.50	3200	0.50
Underpr. Stope Drilling	ft.			414.63	86.5	4.79	920	5.00
Suface Diamond drilling	ft			7576.00	1130.0	6.70	1700	6.00
Stripping								
Trenching Bull dozer	hr.			105.00	7.5	14.00	15	14.00
Trenches Spiling	ft.			600.00	20.0	30.00	50	30.00
Roads and Trails								
Assaying	Sample			213.50	61.0	3.50	140	3.50
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage 1				23,190.70				
TOTAL COSTS				59,253.83				

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

Date 12/6/57 Operator Unont Mining Inc.

Per R. J. Cresswell Title President Manager

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

REMARKS:

(Instructions on reverse)

(For Government use only)

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

NORWICH MINE

Silver Bow County

Montana

DMA - 2874 Contract Idn - E604 Manganese

NARRATIVE REPORT

Period November 1, 1957 through November 30, 1957

None of the work in progress at the Norwich Mine during October was covered by DMA contract, and nothing has been vouchered for work performed on the accompanying forms.

During the month regular mining operations were prosecuted, as usual, on a two shift basis during the course of which about 1915 long dry tons of ore were produced and sold having an estimated gross value of approximately $61,200. and an average manganese content of about 25%.

The ore produced during October was sold under the following 24 lots, 10 of which (Raise lot numbers 167 through 177 comprised of approximately 769 L.D.T.) represent ore produced from the Norwich mining claim, and were therefore sold subject to a deduction of 5% of its gross value for payment to DMA. The remaining 14 lots, Little Sarah numbers 4 through 17, comprised of 1146 L.D.T. were produced from the Little Sarah Mining Claim, and were sold without any deduction to DMA for the usual royalty.

We are enclosing herewith 5 copies of the long section showing the progress of stoping operations in both Norwich and Little Sarah ground.

Yours truly,

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

WFC/lr

Encl.

overnment Messenger Envelope

65 (Rev. 1/46)

2. Void previous block.
3. Write clearly.

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for reissue.

Use other side

Use RUN and STOP only when messenger service between Government buildings in Washington is required.
Your mail room has RUN and STOP information.

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

NOV 25 1957 DMEA

Month of October, 1957 Docket No. DMEA 2874 Contract No. Idm-E604

Operator's Name Umont Mining Inc. Minerals Manganese

Address 506 Silver Bow Block Butte, Montana

Contract Amount, $ 103,510.70 Government Participation 75 % Amount, $ 77,633.01

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY WSM: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form facilities & equipment: Install Pump Motor Shaft Enlargement & Rehabilitation 400 x-cut rehabilitation						
Drilling						
Bulldozing		2082.00	2082.00			
Costeaning		3148.00	3148.00			
Drifting		1600.00	1600.00			
(2) Labor and Supervision:						
Labor		4100.00	4100.00			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spilling		600.00	600.00			
Underground Drilling		414.63	414.63			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes		213.50	213.50			
Liability Insurance						
Surface Drilling		7570.00	7570.00			
(8) Contingencies (specify):						
Bull dozing		105.00	105.00			
Stage 2		23190.70	23190.70			
TOTALS		59253.83	59253.83			

Memo only

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

Date 11/12/57 *Payee Umont Mining, Inc.

Per Wilbur F. Brunoth Title President Manager

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

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

(Instructions on reverse)

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

$

Signature
(Authorized Certifying Officer)

Date Vou. No.
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED NOV 25 1957

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1957 Docket No. DMEA 287 Contract No. Idm-E604
Operator's Name Umont Mining, Inc. Minerals Manganese
Address 506 Silver Bow Block, Butte, 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.			12,512.00	391.0	32.00	550	32.00
Crosscutting	ft.			4,100.00	200.0	20.50	240	20.50
Raising	ft.			3,710.00	371.0	10.00	550	10.00
Install pumps & fac's.	job			2,082.00	comp.	2082.00	job	2082.00
Winzes	job			3,148.00	comp.	3148.00	job	3148.00
Stoping	cu.ft.			1,600.00	32.00	0.50	3200	0.50
Underground drilling	ft.			414.63	86.5	4.79	920	5.00
Surface drilling	ft.			7,578.00	1138.0	6.70	1700	6.00
Stripping								
Trenching	hr.			105.00	7.5	14.00	15	14.00
Test Pits	ft.			600.00	20.0	30.00	50	30.00
Roads and Trails								
Assaying	sample			213.50	61.0	3.50	140	3.50
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage 1				23,190.70				
TOTAL COSTS				59,253.83				

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

Date 11/12/57 Operator Umont Mining, Inc.

By Wilbur F. Lemieux Title Resident Manager

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

NORWICH MINE
Silver Bow County
Montana

DMEA - 2974 Contract Idm-E604 Manganese

NARRATIVE REPORT

Period October 1, 1957 through October 31, 1957

None of the work in progress at the Norwich Mine during October was covered by DMEA contract, and nothing has been vouchered for work performed on the accompanying forms.

During the month regular mining operations were prosecuted, as usual, on a two shift basis during the course of which about 1931 long dry tons of ore were produced and sold with an estimated gross value of approximately $43,240.00 and an average manganese content of about 21%.

The ore produced during October was sold under the following 24 lots, 21 of which (raise lots numbers 150 through 167 and Drift lots 77 through 79, comprised of approximately 1751 L.D.T.) represent ore produced from the Norwich Mining claim, and were therefore sold subject to a deduction of 5% of its gross value for payment to DMEA. The remaining 3 lots, Little Sarah Lots numbers 1 through 3 comprised of approximately 230 L.D.T. were produced from the Little Sarah Mining Claim, and were sold without any deduction to DMEA for the usual royalty.

With this narrative report 5 copies of a combined geologic - assayplan are enclosed which being up to date all exploration and drilling accomplished through October 31 whether performed under the subject contract or otherwise. Since no further work of this nature is contemplated in the future, this will be the last time, copies of this map will accompany this report. Among other things shown, are diamond drill holes M_2 completed September 21, at a depth of 106 feet, M_3 completed October 15, at a depth of 157 feet, and M_4 completed October 21, at a depth of 109 feet. None of this work was perfomed under subject contract, and results of all except M_4 were negative. In hole M_4 a vein intersection was disclosed between 70 and 90 feet which was not sufficiently mineralized to be of commercial interest.

We are also enclosing 5 copies of the long section showing the progress of stoping operations in both Norwich and Little Sarah ground. We shall continue to forward monthly copies of this stope map in view of the fact an increasing portion of our production will not be subject to the 5% DMEA royalty deduction.

Yours truly,

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

WFC/rlg

S. Government Messenger Envelope

ard Form No. 65 (Rev. 1/46)

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oly room for reissue.

Use other side

Use RUN and STOP only when messenger service between Government buildings in Washington is required.
Your mail room has RUN and STOP information.

Form 704 (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

OCT 13 REC'D

Month of September, 195 7 Docket No. DMEA 2374 Contract No. Ida-7604

Operator's Name Unont Mining, Inc. Minerals Manganese

Address 506 Silver Bow Bldg. Butte, Montana

Contract Amount, $ 103,510.70 Government Participation: 75 % Amount, $ 81,303.00

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 Contracts: Short Form: Install Pump Equipment						
Drilling Flatus Shaft		2082.00	2082.00			
Bulldozing Rehabilitation		3143.00	3143.00			
Crosscutting Rehabilitate 400 Station		1600.00	1600.00			
Drifting						
400x-cut Rehabilitation		4100.00	4100.00			
(2) Labor and Supervision:						
Drifting 40 level		12512.00	12512.00			
Supervision Timbering		3710.00	3710.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spilling		600.00	600.00			
Underground Drilling		414.63	414.63			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		213.50	213.50			
Payroll Taxes						
Liability Insurance						
Surface Drilling		7578.00	7578.00			
(8) Contingencies (specify):						
Bulldozing		105.00	105.00			
Stage 2		23190.70	23190.70			
TOTALS		59253.83	59253.83			

Memo Only

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

Date 10/5/57 *Payee Unont Mining, Inc.

Gilbert F. Brewell Title Resident Manager

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

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

(Instructions on reverse)

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

$

Signature
(Authorized Certifying Officer)

Date Vou. No.
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Budget Bureau No. 42-R1151.2

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

OCT 15 1957

Month of September 1957 Docket No. DMEA 2074 Contract No. Idm-E604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address 506 Silver Bow Block, Bldg. Butte, 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.			12512.00	391.0	32.00	550	32.00
400 Crosscutting Rehabilation	ft.			4100.00	200.0	20.50	240	20.50
Drift Timbering	ft.			3710.00	371.0	10.00	550	10.00
Shafts Install Pumps & Fittings	job			2082.00	comp.	2082.00	job	2082.00
Shaft Rehab.	job			3148.00	comp.	3148.00	job	3148.00
400 Station Enlarging	cu.ft.			1600.00	3200	0.50	3200	0.50
Underground drilling	ft.			414.63	86.5	4.79	920	5.00
Surface auger drilling	ft.			7578.00	1138.0	6.70	1700	6.00
Stripping								
Trenching Bulldozer	hr.			105.00	7.5	14.00	15	14.00
Test Pits Spiling	ft.			600.00	20.0	30.00	50	30.00
Roads and Trails								
Assaying	sample			213.50	61.0	3.50	140	3.50
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage 1				23190.70				
Total Costs				59253.83				

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

Date 10/5/57 Operator Umont Mining, Inc.

Per Gilbert F. Cresswell Title Resident Manager

Remarks:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

NORWICH MINE

Silver Bow County

Montana

DMEA - 2874 Contract Idm 5-604 Manganese

NARRATIVE REPORT

Period September 1, 1957 through September 30, 1957

The surface drilling in progress since May under subject contract was completed in August and with its completion none of the work in progress at the Norwich Mine during September was covered by DMEA contract, and nothing has been vouchered for work performed on the accompanying forms.

During the month regular mining operations were prosecuted, as usual, on a two shift basis during the course of which about 700 long dry tons of ore were produced and sold with an estimated gross valued of approximately $20,000.00 and an average manganese content of about 20.6%. The majority of this production was from 4-496 Raise with the remainder being derived from 4-497 Stope E. The 4-506 ore block had been completely extracted by the end of August, and 4-497 Stope West was shut down the whole month for filling which account for the drastic decline in production this month. Extraction of the ore remaining in 4-497 Stope East was completed by September 24. This stope was also out of production the first 16 days of the month which being filled, and mining was resumed September 17th in this place.

The accompanying long section which shows the position of the 4-496 Raise with respect to the Little Sarah - Norwich end lines, is enclosed in order that this important relationship may be carefully noted. Now that mining operations are about to commence in Little Sarah ground, we will shortly be producing and selling ore which under the our DMEA contract is not subject to the usual 5% royalty to DMEA. Because this raise crosses this division line (the line bisects the raise for a considerable distance) all production from the raise itself has been sold subject to the usual DMEA royalty. In the future, only the production from stoping east of the 4-496 Raise will be sold subject to this royalty reduction.

The geologic assay plan accompanying this report shows the position of two diamond drill holes, #2 and #3, drilled from the 400 level west drift face during the month. Neither of these holes has been completed at month's end, and since this drilling was not done under contract the logs have not been enclosed. Results to date however, have been entirely negative as far as revealing additional ore is concerned.

A great deal of repair work on the sills of both the 300 foot and 400 foot levels was accomplished during the month as well as extensive stope filling operations. Filling is now up to date with mining. Considerable work was also necessary to re-open and

repair our exhaust ventilation system and emergency escapeway during the month.

Yours truly

Wilbur F. Criswell

W. F. Criswell
Resident Manager

/el

COPY

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a time.
2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
Mr. Roberts Library	RUN / STOP		RUN / STOP
~~Admin Affairs~~	RUN / STOP		RUN / STOP
Mr. Hankerson MEC Room 4458	RUN / STOP		RUN / STOP
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Send surplus envelopes to supply room for reissue.

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DIF-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

Month of August, 1957 Docket No. DMEA 2874 Contract No. Ida-E604
Operator's Name Umont Mining, Inc. Minerals Manganese
Address 506 Silver Bow Block, Butte, Montana
Contract Amount, $ 103,510.70 Government Participation: 75 % Amount, $ 81,383.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY WSM: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Improvement Contracts:						
Sinking Pluto Shaft		2082.00	2082.00		2082.00	2082.00
Rehabilitation		3148.00	3148.00		3148.00	3148.00
Crosscutting		1600.00	1600.00		1600.00	1600.00
Dummy						
400 Cut Rehabilitation		4100.00	4100.00		4100.00	4100.00
(2) Labor and Supervision:						
Drifting 400 level						
Labor		12512.00	12512.00		12512.00	12512.00
Supervision Timbering		3710.00	3710.00		3710.00	3710.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling		600.00	600.00		600.00	600.00
Underground Drilling		414.63	414.63		414.63	414.63
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	14.00	199.50	213.50	14.00	199.50	213.50
Payroll Taxes						
Liability Insurance						
Surface Drilling	1902.00	5676.00	7578.00	1902.00	5676.00	7578.00
(8) Contingencies (specify):						
Bulldozing	56.00	49.00	105.00	56.00	49.00	105.00
Stage 1		23190.70	23190.70		23190.70	23190.70
TOTALS	1972.00	57281.83	59253.83	1972.00	57281.83	59253.83

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

Date 9-6-57 *Payee Umont Mining, Inc.

By Gilbert T. Cresswell Title Resident Manager

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

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

(Instructions on reverse)

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

$ 1479.00

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 10/7/57 Vou. No. 2050

(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 604 in accordance with the terms of the contract.

Signature /s/ John A. Brewer Title Mining Eng. Date Sept. 16, 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date Oct. 3, 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.

DMEA-104A
(April 1952)

Budget Bureau No. 42-R1151.2

SEP 16 REC'D

RECEIVED OCT 14 1957

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

Month of August 1957 Docket No. DMEA 2374 Contract No. Kdn P-604
Operator's Name Unent Mining, Inc. Minerals Manganese
Address 506 Silver Bow Block, Butte, 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.			12,512.00	391.00	32.00	550	32.00
Crosscutting	ft.			4,100.00	200.00	20.50	240	20.50
Shaft Timbering	ft.			3,710.00	371.00	10.00	550	10.00
Shafts Pumps facilities	job			2,082.00	comp.	2082.00	job	2082.00
Shaft Rehab.	job			3,148.00	comp.	3148.00	job	3148.00
Stoping	cu.ft.			1,600.00	3200	0.50	3200	0.50
Underground diamond drilling	ft.			414.63	86.5	4.79	920	5.00
Surface diamond drilling	ft.	1082.00	317.0	7,[illegible].00	1130.0	* 6.70	1700	6.00 *
Stripping								
Trenching Bulldozer	hr.	56.00	4.0	105.00	7.5	14.00	15	14.00
Timbering Spiling	ft.			600.00	20.0	30.00	50	30.00
Roads and Trails								
Assaying	sample	14.00	4.0	1213.50	61.0	3.50	140	3.50
Total Distributed Costs				36063.13				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc. Stage 2				23,190.70				
Total Costs		1972.00		59,253.83				

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

Date 9-6-57 Operator Unent Mining, Inc.
By Wilbur F. Brunwell Title Resident Manager

Remarks: According to contract $6.00 per foot for drilling, and $2.50 per foot for reaming and casing, or cementing and redrilling cement. Figure includes 300 feet of above at $2.50 making average cost to date, vouchered at $6.70 per foot.

→ 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)

1st John A. Brewster
Mining Engr.
Sept. 16, 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

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DATE | CODE

NORWICH MINE

Silver Bow County

Montana

DMEA - 2874 Contract Idm E-604 Manganese

NARRATIVE REPORT

Period August 1, 1957 through August 31, 1957

During the month of August nome of the underground work in progress was covered by subject contract.

Our regular mining operations were proscuted all month on a two shift basis in 4-506 and 4-497 Stopes W. 4-497 Stope E produced on a two shift basis the first half of the month, and 4-553 stope was mined on a single shift for about the first three weeks of the month until the ore block was completely extracted. Extraction of the 4-506 ore block was also completed at the end of the month.

The 4-486 Raise started from the 400 level on the common end line between the Little Sarah and Norwich Claims was advanced to a point 46 feet above the sill by the end of the month. It intersected valuable ore of good width at a point about 34 feet above the sill. Since under subject contract ore produced from the Little Sarah Claim is not subject to the 5% royalty deduction for DMEA account, the ore stoped from the west side of this raise will not bear this charge but all ore extracted east of the 4-486 Raise will be subject to the 5% DMEA royalty, and will be so marked when sold. Although the end line between the tow claims concerned runs through the raise, all ore being produced from it is being marked as subject to the 5% royalty deduction. During August 78.5 L.D.T. of good grade ore was produced from this raise for September sale.

A samll amount of ore was mined from 4-497 Stope off and on during the month mopping up the few remaining remahents between this stope back and the sill.

Altogether 3418.7 L.D.T. tons of ore were produced in August with a gross value of $87,723.72 and an average manganese content of 20.6%.

The only work in progress covered by subject contract during August was diamond drill exploration carried out from the surface. Hole S 2-A (irroneously referred to in July's narrative as S 3) was advanced from a depth of 180 feet at the first of the month to completion at 497 feet through decomposed, hydrothermally altered granodiorite and bleached, altered aplite. The interval between 417 and 427 feet showed a weakly mineralized structure containing sub commercial amount of manganese and silver, as well as scattered miscellaneous metalifferous sulphides. Essentially the same conditions were found again in the interval from 449 feet to 458 feet.

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All surface drilling was completed August 21. Copies of the geologic log of Hole S 2-A for the section drilled in August are enclosed. Also enclosed with this months' report in quintriplicate on vertical sections of all drill holes completed to date under the contract.

Yours truly

Milton F. Lunsford

Resident Manager

/rlg

COPY

UNION MINING INC.

Drill Hole Log

Norwich Mine, DMM Contract in Silver Bow County, Montana

Hole # S2A, continued

August Drilling

Size of core: BX 171 to 395: AX 395 to 497

Core Recovery: BX 82%; AX 65%
Hole Started: July 24, 1957
Hole Completed: August 21, 1957
Monthly Footage: 317 ft
Type of Drill: Boyles Brothers IHS
Assays: Four assays were taken; two from what is believed to be the Plutus vein and two from what is believed to be the Norwich vein. Because of faulting, both veins were penetrated twice. The plutus vein assays 1.8% Mn and 0.6 oz Ag from 233 to 234', and 0.7% Mn and 1.2 oz Ag from 277 to 278.5'. The norwich vein assays 4.5% Mn, and 0.6oz Ag from 423 to 424.5', and 3.9% Mn and 0.8 oz Ag from 449 ~~to 450.5'~~. Although the coring shows a wider vein structure for the Norwich vein than sampled, the sections not sampled were definitely barren of ore.

Drill Log
Core

From	To	Interval	Recovery	Description of Core
170	188	8	100%	Slightly altered, medium grained, bluish-grey aplite with 1 in. inclusions of Pegmatitic aplite at 184 and 184.2ft -- grains average ¼ in. in diameter. FeOx staining in fractures, Montmorillonite clay development in seams. 6 in. hydrothermally altered zone at 187 ft.
188	190	2	100%	Bluish-grey Pegmatitic aplite. Quartz and orthoclase grains about ½ in. in diameter. Slight Montmorillonite clay development.
190	192	2	100%	Bluish-grey hydrothermally altered coarse-grained aplite. FeOx stain throughout the core; abundant montmorillonite clay development. Probable fault clay at 191.3 ft.
192	196	4	100%	Bluish-grey, fractured, coarse-grained aplite with very slight FeOx staining and MnOx inclusions. 3 in. band of pegmatitic aplite at 195 ft.
196	200	4	100%	Bluish-grey, fractured, medium-to-coarse-grained aplite with FeOx and minor MnOx staining. 1 in. inclusions of pegmatitic aplite at 197 ft.; 1/8 to ¼ vein of quartz in center of core from 198 to 200 ft. Montmorillonite clay development.

From	To	Interval	Core recovery	Description of Core
200	203	3	100%	Weathered, altered, fractured, medium-grained aplite. Pyrite and biotite grains have been weathered to limonite. Rock is brown in color, with abundant FeOx and minor MnOx ~~and minor~~ MnOx staining in seams and fractures. Montmorillonite clay development.
203	204.5	1.5	100%	Bluish-and yellowish grey pegmatitic aplite with grains ¾ in. in diameter and minor FeOx and MnOx. Abundant Montmorillonite clay development.
204.5	207.5	3	100%	Greenish-yellow and white, hydrothermally altered, pegmatitic aplite. Abundant montmorillonite clay development, some chlorite, and bleaching of feldspars. FeOx and minor MnOx staining.
207.5	216	8.5	95%	Bluish-grey, weathered, pegmatitic aplite. Grains range from 1/8 to ½ in. in diameter. Pyrite completely oxidized to limonite.
216	219	3	100%	Weathered, fractured, altered, coarse-grained aplite. ~~Increase in FeOx~~ stains and a slight increase in MnOx stains, probable fault clay at 219 ft.
219	224	5	38%	Weathered, fractured, altered, coarse-grained to pegmatitic aplite. FeOx stains and an increase of MnOx (1%) in seams and fractures.
224	233	9	66%	Bluish-grey, fractured, coarse-grained aplite. Rock is more weathered from 229 to 233 than rest of the core. Increase in MnOx (2+%) and a decrease in FeOx. Probable fault clay at 230 ft; probable soft spots from 230 to 232 as only 33% of the core was recovered from this interval.
233	234	1	70%	Hydrothermally altered, fractured, white aplite with thin (1/8 to ¼ in.) stringers of MnOx throughout the core -- very minor FeOx. Assay No. DDH 52A 322, 1.8% Mn, 0.6 oz Ag.
234	239	5	60%	Hydrothermally altered, partially crushed, bleached, and FeOx stained fine-grained aplite. Inclusions of MnOx (2%) throughtout the core.
239	244.5	6.5	66%	Hydrothermally altered, crushed, fine-to medium-grained aplite. Rock is sandy in spots and has been faulted. FeOx and MnOx (2%) inclusions in crushed zone. ½ in. faulted vein of quartz, pyrite, limonite and minor MnOx at 244.5 ft. About 50% of the pyrite has been weathered to FeOx.

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From	To	Interval	Core Recovery	Description of Core
245.5	259	13.5	80%	Slightly weathered, fractured, bluish to yellowish-grey, coarse-grained aplite. FeOx stains and minor MnOx stains in seams and fractures. Pyrite (1+%) has been partially altered to FeOx; Some sericite clay development.
259	262	3	100%	Light grey, rather fresh and hard, coarse-grained granoplite with inclusions or blebs of biotite. Small amount (1%) of fresh pyrite and a slight amount of montmorillonite clay. Thin, hard fault clay at 262 ft.
262	266	4	100%	Light grey, altered, crushed, coarse-grained granoplite. Inclusions or blebs of pyrite (1-2%) and sericite clay development. Possible thin fault clays.
266	273	7	100%	Light grey to greenish-grey, fractured, slightly altered, granoplite. Inclusions or blebs of pyrite. Sericite clay development. 1" dark grey medium hard fault clay at 270.5 ft and thin soft clay in seams.
273	283	10	96%	Light brown, highly fractured, weathered, Coarse-grained, aplite. Abundant MnOx in seams and fractures and ¼ to 3/8" stringers at 277 ft. Blebs of pyrite have been partially weathered to FeOx Montmorillonite Clay development. Assay No. DDH S2A, 323 from 277 to 278.5; 0.7% Mn, 1.2 oz Ag.
283	286	3	67%	Light grey to white, fractured, weathered, and altered, medium-grained aplite. Pyrite almost completely altered to FeOx. No MnOx. Sericite clay development.
286	291	5	76%	Light brown, fractured, weathered, altered, medium-grained aplite. 1-2% MnOx stains in fractures. Pyrite oxidized to FeOx, sericite clay development.
291	311	20	69%	Light grey, fractured, weathered, fine-to medium-grained aplite. FeOx stains in seams, fractures, and around pyrite grains. Montmorillonite clay development.
311	314	3	0	No core or sludge. Drilled very soft--- the rods almost dropped the entire 3 ft.
314	318	4	60%	Light grey, altered, highly crushed, medium-grained aplite. Pebbles 3/8 in. across of aplite included in the core. Pyrite rather "fresh". Fault clay at 317 ft. (50° to hole); ½" of medium hard, dark grey clay.

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From	To	Interval	Core Recovery	Description of Core
318	325	7	100%	Light greenish grey, pyritized, fractured, altered, coarse-grained granoaplite. Pyrite 2-3% is in form of grains and inclusions. 1/8" fault clay at 319.5 ft Montmorillonite clay development.
325	331	6	100%	Light greenish-grey, pyritized, fractured altered, coarse-grained granoaplite to granodiorite. Pyrite is in form of fine grains in blebs, and streaks throughout the rock.
331	345	14	100%	Light greenish grey, pyritized, slightly altered, fractured granoaplite. Pyrite 2-3% in fine grained blebs and streaks and included in very thin vein quartz at all angles to the core. ¼ in. vein of pyrite at 333 ft. vuggy filling of quartz ½ in. wide at 334 ft. Sericite and chloritic clay alteration.
345	349	4	100%	Light greenish grey, pyritized, altered, fractured, granoaplite. Pyrite is fine-grained in blebs throughout the rock. Sericite and chloritic clay alteration.
349	352	3	100%	Light grey, slightly pyritized, rather "fresh" coarse-grained aplite with inclusions of pegmatitic aplite. Sericite clay development.
352	368	16	81%	Light grey, altered, crushed, slightly pyritized, coarse-grained aplite to granoaplite. Highly crushed fault zones at 354 to 356 ft and 360 to 362 ft.
368	374	6	67%	Light brown, fractured, weathered, crushed, coarse-grained granoaplite with MnOx and FeOx staining on seams and fractures.
374	378	4	96%	Light greenish-grey, fractured, pyritized, coarse-grained to pegmatitic granoaplite. Slight FeOx staining from 376 to 378.
378	379	1	90%	Fractured, oxidized MnOx and FeOx stained, coarse-grained granoaplite. Pyrite almost completely oxidized.
379	388	9	55%	Fractured, slightly oxidized, medium-to coarse-grained aplite. Fault zone with numerous small fault clays and hydrothermal alteration from 384 to 385.5. Pyrite slightly oxidized to 384 ft.
388	395	7	45%	Greenish-grey, fractured, slightly pyritized medium-grained aplite. Pyrite in fine grained blebs. Thin clays at 394 ft.

From	To	Interval	Core Recovery	Description of Core
AX core				
395	397	2	77%	Fractured, oxidized, medium-grained aplite with FeOx and MnOx (both 1-2%) in fractures. Pyrite completely oxidized.
397	412	15	79%	Light grey, slightly fractured, slightly hydrothermally altered, medium-grained aplite. Pyrite is fresh fine grains in clusters. Montmorillonite clay alteration; fault clays at 399 and 403.5 ft.
412	417	5	86%	Light grey, fractured, pegmatitic aplite, FeOx stains in fractures from 413.5 to 415. Stringers of vein quartz along axis of core from 415 to 417 ft. Pyrite is fine grained in inclusions in rock.
417	427	10	84%	Light to dark grey, highly crushed, hydrothermally altered aplite with minor MnCO3, pyrite, and numerous fault clays. Rock has been crushed and altered to the extent it is sand in a matrix of clay. Small grains of MnCO3 in clay seams and apparently less than 1%. Clays at 422, 423 (6" wide), 424, and 427 ft. Assay No. DDH S2A 360 from 423 - 424.5' - 4.5% Mn, 0.6 oz Ag.
427	443	16	53%	Light grey, slightly altered and fractured, pyritized, fine- to medium-grained aplite. Pegmatitic inclusions at about 437 ft. Pyrite (1-2%) is in crystals and small inclusions. Core black because of fine grains. Very minor hematite and chalcopyrite? grains. Montmorillonite clay development.
443	449	6	33%	Partially crushed, altered, fractured, pyritized, light greenish-grey, medium-grained aplite. Core recovery very poor in badly crushed zones. One MnCO3 grain ¼ in. in diameter at 448 ft. Fault clays at 444 and 449 ft. Pyrite is rather "fresh".
449	458	9	[illegible]	Completely crushed aplite in a fault clay and clay matrix. MnCO3 grains in blue clay matrix from 449 to 450.5. Quartz stringers with very minor sphalerite? from 455 to 457. Pyrite grains throughout the core. Clays are medium hard. Assay No. DDH S2A 361 from 449 - 450.5' - 2.9% Mn, 0.5 oz Ag.
458	463	5	64%	Light greenish-grey slightly fractured coarse-grained aplite to granodiorite. Small inclusions of pyrite. Montmorillonite clay alteration. Pebbles from 462 to 463 ft.

463	472	9	55%	Light greenish gray, slightly fractured, coarse-grained aplite to granoaplite with pegmatitic inclusions. Montmorillonite clay alteration. Grain of chalcopyrite? at 471 ft. Pyrite (1-2%) is black fine-grained inclusions and yellow crystals. Slightly oxidized zone from 470 to 471 ft.
472	485	13	61%	Light yellow and pinkish-gray pegmatitic aplite with ½ in. grains of quartz and orthoclase. Pyrite (2-3%) in form of large yellow grains. Oxidized zone and clay at 479 ft.
485	492	7	73%	Pinkish to dark green coarse-grained aplite to granoaplite. Pyrite is oxidized to hematite in zones from 488 to 490 ft.
492	497	5	60%	Dark green, fine-grained aplite. Pyrite altered to hematite. Rock contains abundant fine-grained quartz.

Summary of August Drilling

The hole from 130 to 497 ft was drilled ~~completely in~~ aplite, although the USGS would probably term the pegmatitic aplite as alaskite.

The ground through which this hole was drilled is badly fractured and contains numerous water channels and/or fracture zones. Except for 5 ft of sludge return at 307 ft, when the hole was cased with AX casing, no sludge was returned below 250 ft.

It is believed that a normal fault (strike and dip unknown) has caused both the Platus and Norwich veins to be drilled twice by this hole.

From the extent of oxidation of the pyrite grains, water in large quantities may be expected when drifting eastward from the Platus shaft. Evidence of ground water circulation below 450 ft is seen in the oxidation of the pyrite grains to hematite in the otherwise unaffected wall rock encountered at 463 ft.

The Platus vein was located only by stringers of MnOx in slightly altered aplite and shows very weak mineralization. A vein structure of approximately 8 ft forms the Norwich vein. It is highly faulted, hydrothermally altered, and crushed. Mineralization is lacking in any appreciable amount in the area of the drill hole. Apparently most of the MnOx encountered is drag ore in the wide hanging wall fault clay.

Respectfully submitted

Robert G. Garwood

Robert G. Garwood
Geologist

DMEA Field Team, Region I

August 29, 1957

DMEA Certifying Officer, Region I

Contract Idm-E604, Umont Mining Company
Monthly operating report for July 1957

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

An amount of $25.00 has been added to the July MF-104 submitted by the Operator. This covers 10 feet of cementing and redrilling @ $2.50/ft. The contract authorizes 300 feet of reaming and casing, cementing and redrilling. The Operator vouchered for only 290 feet but actually completed the 300 feet. Apparently this was an error in addition.

Dorothy F. Long
ejtra

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

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DATE	INITIALS	CODE
9/6	JEJ	110
9/6	WSM	400

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

Budget Bureau No. 42-R1036.5

BUREAU OF MINES
AUG 21 1957

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

Month of July 1957 Docket No. DMEA 2374 Contract No. Idm - E 604
Operator's Name Uncut Mining, Inc. Minerals Manganese
Address 506 Silver Bow Bldg., Butte, Montana
Contract Amount, $ 103,510.70 Government Participation: 75% Amount, $ 81,383.00

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 Facilities & Equipment (Short Form) Install Pump						
Dump Pluto Shaft		2082.00	2082.00		2082.00	2082.00
Shaft Bunkers Rehabilitation		3148.00	3148.00		3148.00	3148.00
Enlarging & Rehabilitation Crosscutting 800 Station		1600.00	1600.00		1600.00	1600.00
Dump						
400 x-cut Rehabilitation		4100.00	4100.00		4100.00	4100.00
(2) Labor and Supervision						
Drifting 400 Level Labor		12512.00	12512.00		12512.00	12512.00
Supervision Timbering		3710.00	3710.00		3710.00	3710.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling		600.00	600.00		600.00	600.00
Underground Drilling		414.63	414.63		414.63	414.63
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	7.00	192.50	199.50	7.00	192.50	199.50
Payroll Taxes						
Liability Insurance						
Surface Drilling (see attached schedule)	3469.00	2202.00	5671.00	3474.00	2202.00	5676.00
(8) Contingencies (specify):						
Sulldozing		49.00	49.00		49.00	49.00
Stage 1		23190.70	23190.70		23190.70	23190.70
TOTALS	3476.00	53800.83	57276.83	3481.00	53800.83	57281.83

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

Date August 12, 1957 Payee Uncut Mining, Inc.

Per Dooley P. Wheeler Title General Resident Manager

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

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

(Instructions on reverse)

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

$ 2610.75

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 8/30/57 Vou. No. 2634
(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 604 in accordance with the terms of the contract.

Signature /s/ George T. Krempesky Title Mining Engr. Date 8/16/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date 8/22/57

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.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1957 Docket No. DMEA 2874 Contract No. Idm E-604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address 506 Silver Bow Block, Butte, 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			12,512.00	391.0	32.00	550	32.00
400 Crosscutting ~~xxx~~ Rehabilitation	ft			4,100.00	200.0	20.50	240	20.50
~~xxx~~ Drift Timbering	ft			3,710.00	371.0	10.00	550	10.00
Shafts Install Pump & Facilities	job			2,082.00	comp	2082.00	job	2082.00
~~xxx~~ Shaft Rehabilitation	job			3,148.00	comp	3148.00	job	3148.00
400 Station Enlarging	cu ft			1,600.00	3200	0.50	3200	0.50
Underground ~~xxx~~ Drilling	ft	2724.00		414.63	86.5	4.79	920	5.00
Surface ~~xxx~~ Drilling	ft	~~3449.00~~	454.0	~~5,651.00~~	821.0	6.88	1700	6.00*
Reaming & Cemented	ft	750.00	300	4 926.00	300		300	2.50
Stripping								
~~xxxxx~~ Bulldozer	hr			49.00	3.5	14.00	15	14.00
~~xxxx~~ Spiling	ft			600.00	20.0	30.00	50	30.00
Roads and Trails								
Assaying		7.00	2.0	199.50	57.0	3.50	140	3.50
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage 1				23,190.70				
Total Costs		3,456.00		57,256.83				

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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: According to contract $6.00 per foot for drilling 2.50 per foot for reaming or drilling cement

Date August 12, 1957 Operator Umont Mining, Inc.

Per Dowley P. Wheeler Jr. Title ~~President~~ General Manager

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

(Instructions on reverse)

(For Government use only)

/s/ George T. Kiernansky, Mining Eng., Aug. 16, 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

Diamond Drilling July 1957 At Norwich Mine

Contract No. Idm - E 604 DMEA Docket No. 2874

Hole S-1

Drilling from 367 feet to 495 feet; 128 feet @ $6.00	=	$ 768.00
Reaming 256 feet (none previously vouchered) @ $2.50	=	640.00
Cementing and re-drilling 34 feet (660 fe t cemented and redrilled) 44	=	85.00
		~~$1493.00~~ 1518.00

Hole S-2

Drilling from 0 - 146 feet; 146 feet @ $6.00	=	$ 876.00

Hole S-3

Drilling from 0 - 180 feet; 180 feet @ $6.00	=	1080.00
Total voucherable drilling costs		~~$3449.00~~ 3474.00

Total footage vouchered July	454 feet
Reaming and casing	256 feet *
Cementing and re-drilling	~~34~~ 44 feet **

* Total on hole S1; all but 49 feet performed in May and June but not previously vouchered.

** 660 feet total on hole S-1 but only ~~34~~ 44 feet can be vouchered under terms of contract to 300 foot total for both reaming and casing and cementing and drilling.

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DATE	INITIALS	CODE

DPW

NORWICH MINE

Silver Bow County

Montana

D M E A - 2874 Contract Idm E-604 - Manganese

NARRATIVE REPORT

Period July 1, 1957 through July 31, 1957

During the month of July, none of the underground work in progress was covered by subject contract.

Our regular mining operations were prosecuted in 4-506 stope, 4-497 stopes east and west, and 4-553 stope. In the course of our stoping operations, 3073.5032 long dry tons of ore were produced, with a gross value of $84,845.45, and an average manganese content approximating 20.7%

A good deal of repair work was done on the 300 foot level sill to prevent its loss and use to the mining operations presently in progress below, although not as much as was required the previous two months.

The only work in progress which was covered by subject contract during July was diamond drill exploration carried out from surface. Hole S-1 was extended 128 feet from 367 feet to completion at 495 feet. A vein, believed to be the Norwich, was intersected from 442 to 450 feet. Core recovery was poor (26%) at the intersection, which did not indicate commercial ore.

The rig was moved and hole S-2 collared in decomposed granodiorite at mine coordinates 5415 N and 5755 E. This hole was inclined minus 62.5 degrees north. At a depth of 133 feet, it encountered volcanic rock which persisted to 146 feet where the drilling was terminated. The presence of volcanic rock types where they were formerly unsuspected is believed due to faulting.

From the same location, hole S-3 was started at minus 77.5 degrees north 10 degrees west. At the end of the month this hole had penetrated to a depth of 180 feet through plutonic rocks which consisted largely of decomposed hydrothermally altered granodiorite and bleached aplite.

Not considering mobilization costs, geologists wages, or supervision, hole S-1 cost $5,725.25 or $11.57 per foot. Hole S-2 cost $1,149.40 or $7.87 per foot, figured on the same basis. Hole S-3 to July 31st had cost $1,351.70 or $7.57 per foot. The average cost per foot drilled to date under this contract, including mobilization but excluding the other costs mentioned above, has been $10.58 per foot. The extent of government participation in these costs assuming nothing vouchered for July is disallowed is only about 49%.

Since none of the underground work was covered by subject contract, and no drift advance was made, no maps are included with this report. The surface drill holes were shown on the maps submitted with last months' reports and were merely extended during July.

Yours very truly,

Wilbur F. Criswell
Resident Manager

Dorley P. Whitsch
General Manager

WFC/am

SALT LAKE CITY 15, UTAH

Phone HUnter 4-4401

Boyles Bros. DRILLING COMPANY

Diamond Drilling Contractors

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

INVOICE DATE: June 1, 1957
INVOICE NUMBER: 1
CONTRACT: Umont Butte
TERMS: As per Contract
LOCATION: Norwich Mine, Butte, Montana

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
S-1					
Pipe	0	5	5	$ 7 60	$ 38.00
NX	5	10	5	7 60	38.00
BX	10	26	16	6 90	110.40
AX	26	243	217	6 30	1,367.10
Reaming			69	3 90	269.10
Cementing			24 Hrs.	10 60	254.40
				Total	$2,077.00

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

1321 South Main St. SALT LAKE CITY 15, UTAH Phone HUnter 4-4401

Boyles Bros. DRILLING COMPANY

Diamond Drilling Contractors

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

INVOICE DATE: July 1, 1957
INVOICE NUMBER: 2
CONTRACT: Umont Butte
TERMS: As per Contract
LOCATION: Norwich Mine, Butte, Montana

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
# S-1					
AX	243	250	7	$ 6 30	$ 44.10
AX	250	367	117	6 60	772.20
Reaming			138	3 90	538.20
Cementing			20 Hrs.	10 60	212.00
Mobilization					450.00
				Total	$2,016.50

RECEIVED SEP 3 D.M.E.

1321 South Main St. SALT LAKE CITY 15, UTAH Phone HUnter 4-4401

Boyles Bros. DRILLING COMPANY

DIAMOND DRILLING CONTRACTORS ENGINEERS — GEOLOGY

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

INVOICE DATE: Aug. 1, 1957
ORDER NUMBER:
INVOICE NUMBER: 3
CONTRACT: Umont Butte
TERMS: As per Contract
LOCATION: Butte, Montana

HOLE NO.		FROM	TO	FOOTAGE	RATE	TOTAL
S-1	BX	367	371	4	$ 7.40	$ 29.60
	AX	371	495	124	6.60	818.40
Reaming				49	3.90	191.10
Cement Time				46	10.60	487.60
Wol-Clay				84 Bags	4.50	378.00
Luminite (Cement)				1 "	7.50	7.50
Cal-Seal (Cement)				7 "	9.50	66.50
Bran				150 lbs.		4.65
Casing lost in hole			60' AX Casing @ $16.40 per 10' length			98.40
S-2						
NX Casing & Pipe		0	70	70	7.60	532.00
	NX	70	125	55	7.60	418.00
	BX	125	146	21	6.90	144.90
Vol-Clay				10 Bags	4.50	45.00
Cal-Seal (Cement)				1 "	9.50	9.50
S-2A						
NX Casing & Pipe		0	56	56	7.60	425.60
	NX	56	171	115	7.60	874.00
	BX	171	180	9	6.90	62.10
					Total	$4,592.85

Cement Drilled 668'

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DMEA
RECEIVED SEP 6 1957

DATE	INITIALS	CODE

UMONT MINING INC.

DRILL HOLE LOG

Norwich Mine DMEA Contract in Silver Bow County, Montana

Hole # S 1, continued

JULY DRILLING

Core recovery	AX average 61%
Hole started	May 9, 1957
Hole completed	July 17, 1957
Total length of hole	495 feet
Footage drilled in July	133 feet

Assays: Two assays were taken from the core of a vein cut at 442 feet. The quartz part of the vein from 442 to 444½ assayed 6.30% Mn, 1.6oz Ag, and 0.02 oz Au. (sample DDH, S 1, # 105) The grey to white clay of the vein from 444½ to 450 assayed 1.2% Mn, and 1.0 oz Ag. (sample DDH, S 1, # 106). No other assays from the core, or sludge, were taken.

Drill Log continued: (For the interval 0 to 243 see May report, and the interval 243 to 367 see June report)

From	to	Interval	Core Recovery	Description of core
362	366	4	none	Hole was washed out at 362, reamed to 366 and thereafter washed again. Reamed cuttings carefully panned, but showed only aplite. No clay identified in cuttings.
367	368	1	100%	Hard, fractured coarse-grained aplite with quartz eyes. Fe all oxidized; little to no hydrothermal alteration.
368	371	3	21%	Hard but fractured oxidized, coarse and even-grained aplite. No appreciable alteration, except oxidation of pyrite in "eyes" of quartz. (small piece of biotite dacite in core, apparently caved from above).
371	376	5	45%	Oxidized, coarse-grained aplite, some clay alteration (not sericite).
376	378	2	100%	same as 3 1 - 376.
378	380	2	85%	Oxidized to normal coarse-grained aplite, pyrite "eyes" appear smaller than 10 ft above. Cracks in rock cause shattering of core. Lost circulation at 380 ft; possibly structure, but no fault clay in cuttings.

From	to	Interval	Core Recovery	Description of core
380	385	5	60%	Oxidized, even to coarse-grained aplite. No mineralization or appreciable sericite.
385	387	2	50%	Stringer of iron oxide stained aplite in broken oxidized aplite.
387	392	5	22%	Brecciated and broken oxidized aplite fragments. Possibly some sericite. No indications of fault clay or ore mineralization.
392	393	1	70%	Brecciated and broken oxidized normal aplite fragments. No indications of fault clay or ore mineralization.
393	396	3	65%	Brecciated and broken, oxidized coarse-grained aplite. Possibly some sericite. No mineralization.
396	398	2	90%	Broken, oxidized, and brecciated coarse-grained aplite. Corings essentially sand. No ore minerals.
398	400	2	55%	Even-grained, somewhat oxidized normal aplite. Appreciable tourmaline.
400	402	2	65%	Coarse-grained to pegmatitic aplite. Relatively considerable tourmaline, iron all oxidized, some sericite on fracture seams.
402	405	3	%	Coarse-grained aplite. Iron all oxidized, some sericite on fracture seams.
405	407	2	80%	Coarse-grained aplite. same as 402 -- 405 some tourmaline and occasional ferromagnesian mineral.
407	410	3	92%	Even-grained aplite. Some small pyrite Xls principally oxidized -- also some mica. Some chloritic alteration in seams.
410	413	3	83%	Slightly pyritized aplite to grano-aplite. Some plagioclase; sericite and chloritic alteration suggested.
413	415	2	55%	Pyritized and chloritized aplite. Some plagioclase and few tourmaline crystals present.
415	417	2	50%	Altered (chlorite and sericite) pyritized even-grained aplite. Few tourmaline crystals.
417	420	3	40%	Same as 415-417. In addition, appreciable plagioclase.
420	422	2	30%	Same as 417-420.
422	423	1	58%	Same as 417-420.
423	426	3	32%	Chloritized and pyritized, small and even-grained aplite. Sericite on seams.

From	to	Interval	Core Recovery	Description of core
428	430	4	30%	Crushed, pyritized, and brecciated even-grained aplite. Fault clay (+ 60° to hole) at 429 feet. Some quartz, FeS_2 -- 1/8 inch pebbles in rubble -- FeS_2 only in pannings.
430	432	2	46%	Crushed, pyritized, completely altered, fine-grained aplite.
432	435	3	20%	Crushed, pyritized, completely altered, fine-grained aplite.
435	437	2	45%	Pyritized, altered, even-grained aplite with small stringers of smoky quartz and a few grains of $MnCO_3$. Sericite throughout the core.
437	442	5	67%	Pyritized, altered, even-grained aplite with small stringers of white quartz and a few grains and small seams (1/16 inch) of $MnCO_3$. Fault clay (30° to hole) at 439. Minor limonite stains, sericite throughout the core, large grains of quartz near $MnCO_3$.
442	444½	2½	26%	White and black vein quartz with minor pyrite (± 5%) and sphalerite (± 1%). Sample DDH S 1, 105.
444½	447	2½	26%	Fault clay with fragments of vein quartz similar to 442-444½.
447	450	3	71%	Predominately light to dark grey clay. Sample DDH S 1, 106, from 444½ to 450.
450	452	2	71%	Crushed, completely altered, light grey aplite.
452	457	5	30%	Highly crushed, altered, slightly pyritized, even-grained aplite, with a few grains and stringers (1/8 inch) of $MnCO_3$. Several grains of sphalterite are associated with the pyrite. From 453-457, rock is completely crushed, sericite and numerous clays are common.
457	461	4	57%	Crushed, altered, pyritized, even-grained aplite with very few stringers of $MnCO_3$ to 462 ft, and grains of sphalerite. 4 inch + medium to hard clay at 460 ft. Sericite is common.
461	463	2	100%	Chloritized and pyritized even-grained altered aplite with sericite on seams. Narrow (1/16inch) fault clays at 461.5 (45° to core) and another at 461.7 (20° to core). Limonite stains near biotite grains.
463	466	3	85%	Pyritized (1-2%) even-grained aplite with limonite staining on fractures. Highly hydrothermally altered, but rock hard enough to core well.

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From	to	Interval	Core Recovery	Description of core
466	467	1	90%	Pyritized, even-grained, medium coarsely crystaline, moderately hydrothermally altered aplite with strong limonite staining along fractures and where pyrite was. Stringers of MnO_x along center of core. Color -- buff to brown and black.
467	468	1	73%	Same as 466 - 467.
468	470	2	90%	Coarse-grained to pegmatitic, slightly pyritized, altered aplite with stringers of MnO_x and weak limonite staining. Sericite along seams, orthoclase not altered noticeably.
470	472	2	90%	Slightly pyritized, coarse-grained aplite with minor stringers of MnO_x and weak limonite staining.
472	475	3	93%	Coarse-grained aplite with the 1% ± pyrite commonly oxidized to limonite.
475	480	5	90%	Weakly pyritized, coarse-grained aplite with weak limonite staining along seams, minor MnO_x.
480	495	15	93%	Pegmatitic aplite with minor seams and blebs of limonite and MnO_x staining; Rock locally contains vuggy blebs lined with quartz and orthoclase crystals. Normally light brown to grey, locally stained green by clay? development. (montmorillonite).

Notes: The logging of the July core was accomplished by Robert H. Nelson from 362 ft to 435 ft, and by Robert G. Garwood from 435 ft to 495 ft.

The rock described as pegmatitic aplite in this log is the same type rock that is called Alaskite by the U.S. Geological Survey.

Summary of July drilling: From 367 to 415-423, the rock is rather coarse-grained aplite showing oxidation and development of clay minerals. The ground from 380 on down to the bottom of the hole was fractured and the circulation was lost at many places causing the loss of sludge for study.

From 416-423 to the top of the vein at 442ft, the rock is not hydrothermally altered to any extent; the rock is a fine-grained medium grey to medium greenish-grey aplite.

At 442 and below to the bottom of the hole, the rock becomes hard in the vicinity of 466 on down. The rock is slightly more coarsely crystaline, buff in color, and has manganese and Fe oxide specks and seams. The hard pegmatitic aplite is similar to the foot wall rock found on the 400 level of the Norwich mine.

Respectfully submitted

Robert G. Garwood

Robert G. Garwood
Geologist

AUG 1 5 1957

DUMONT MINING, INC.

DRILL HOLE LOG

Norwich Mine DMEA Contract in Silver Bow County, Montana

Hole # S 2

Location: On Flutus patented claim in Sec. 15, T. 3 N., R. 8 W., at mine coordinates 5415 N. and 5755 E. Hole drilled minus 62.5° north at a collar elevation of assumed 993 ft.

Size of core:
NX 0 to 125 ft.
BX 125 to 146 ft.

Core Recovery:
NX 28%; BX 36%.

Hole Started: July 18, 1957

Hole Completed: July 23, 1957

Footage: 146 ft.

Type of Drill: Boyles Brothers I H S

Assays: No assays were taken, either of the core or sludge. No vein structure was cut and the only mineralization found was due to staining in seams and fractures.

COPY

Drill Log

From	to	Interval	Core Recovery	Description of core
0	27.5	27.5	none	Sludge shows decomposed granodiorite to biotite granodiorite. Biotite grains have been badly weathered.
27.5	29	1.5	54%	Light grey, altered, fractured, medium grained aplite. Limonite stains and sericite in seams.
29	70	41	none	Sludge shows decomposed granodiorite to biotite granodiorite which has been weathered; especially the biotite grains.
70	8	10	32%	Partially decomposed, highly altered, weathered, fractured, medium-grained biotite granodiorite. Limonite (2%+) and MnO_x (2%+) in fractures and seams; sericite is common.
80	85½	5½	36%	Weathered, fractured, coarse-grained biotite granodiorite with light-grey very fine-grained aplite dikes (1 in. wide) at 80.5 ft, 82 ft, 84ft, and 85.5 ft. Limonite and MnO_x (both 1%+) in fractures and seams. Montmorillonite clay development.
85½	95	9½	60%	Weathered, altered, fractured, medium-grained biotite granodiorite. Limonite and MnO_x (both 1%+) in fractures and seams.
95	110	15	36%	Partially decomposed, weathered, altered, fractured, medium-grained biotite granodiorite with limonite stains and minor MnO_x in seams. Five in. dike of very fine-grained light grey aplite at 109.5 ft.

110	120	10	35%	Partially decomposed, weathered, altered, fractured, medium-grained biotite granodiorite with limonite and minor MnO_x in seams. Four in. dike of very fine-grained light grey aplite at 119 ft. Light brown Fe stained fault clay at 119½-120 ft with pebble inclusions (60%) of very fine-grained aplite. Pebbles are about ½ in. in diameter.
120	125	5	25%	Partially decomposed, highly weathered, fractured, reddish-brown, medium to coarse-grained grano-aplite. Montmorillonite and sericite clay development. High Fe stains throughout the core.
BX core				
125	129	4	45%	Weathered, fractured, reddish-brown to light grey medium-grained aplite. Montmorillonite and sericite clay; FeO_x stains in seams.
129	131	2	52%	Medium-grained, fractured, light grey aplite. Minor FeO_x in seams. Fault clay at 131 ft -- badly decomposed aplite 6 in. above and 3 in. below clay.
131	132	1	90%	Medium-grained, fractured and faulted ~~granodiorite~~ dacite tuff. Thin medium fault clays throughout the core. (40° to hole at 132').
132	133	1	85%	Reddish brown, coarse-grained, altered ~~aplite~~ dacite tuff with numerous fault clays. Clays are thin and of medium consistency.
133	134	1	90%	Light grey, fine-grained dacite tuff.
134	146	12	100%	Medium-grained, highly faulted biotite dacite tuff. The core shows numerous thin (1/32 in.-1/16 in) fault clays which are pink and light grey. Rock increases in hardness from 144 to 146 and shows alignment of the biotite grains perpendicular to the core.

Summary of drilling: From 0 ft to 125 ft, the rock is a weathered, partially decomposed fractured biotite, granodiorite with small intrusions of a fine-to medium-grained aplite. The fractures and seams in the rock are filled with FeO_x and MnO_x. From 125 ft to 134 ft. the rock is a medium-grained aplite which has been fractured and weathered. From 134 ft to 146 ft, the core is a dacite tuff with numerous thin fault clays.

It is believed that the contact between the aplite and dacite tuff is a fault zone consisting of numerous small faults and no true plane of weakness which would be represented by a single, or a few clays. The north wall of the fault zone has apparently moved down in relation to the south wall, but the amount of movement has not yet been determined.

Respectfully submitted
Robert G. Garwood
Robert G. Garwood
Geologist

AUG

UMONT MINING, INC.

DRILL HOLE LOG

Norwich Mine DMEA Contract in Silver Bow County, Montana

Hole # S 2A

Location: On Plutus Patented clain in Sec 15, T. 3 N., R. 8 W., at mine coordinates N 5415 and $ 5754. Hole drilled N 10° W at an angle of minus 77.5°. Surface collar elevation of 993 ft assumed.

J U L Y D R I L L I N G

Size of core: NX, 0 to 171 ft
BX, 171 - ft

Core Recovery: NX average 21%, BX 100%

Hole Started: July 24, 1957

Monthly footage: 180 ft.

Type of Drill: Boyles Brothers IHS

Assays: No assays of the core or sludge were taken.

Drill Log

From	To	Interval	Core Recovery	Description of core
0	58	58	1%	Sludge shows decomposdd, weathered, granodiorite to biotite granodiorite. Biotite grains have been weathered. At 57.5 ft, a 4 in. band of medium-grained aplite with FeO_x stains and minor biotite grains is found.
58	64	6	40%	Partially decomposed, weathered, fractured, medium-grained biotite granodiorite with limonite and MnO_x (1± %) in seams and fractures. Sericite clay development.
64	75	11	46%	Weathered, fractured, medium- to coarse-grained biotite granodiorite with limonite staining on seams and fractures. Sludge is sandy biotite granodiorite with FeO_x stained quartz.
75	92	17	44%	Partially to completely decomposed, fractured, weathered medium-grained granodiorte. FeO_x and MnO_x stains on seams and fractures -- quartz is limonite stained, and some mica was noticed. Fault clay at 75.5 ft (70° to hole) of red and orange medium clay. Montmorillonite clay alteration.
92	93	1	72%	Yellowish to white and grey fault clay. Clay shows numerous minor slips and is of a medium to hard consistency.

93	104	11	72%	Partially decomposed, fractured, slightly weathered medium-grained biotite granodiorite with 1%+ phenocrysts (½ in. in diameter) of plagioclase. Decrease in FeO_x staining from above core, no MnO_x staining. Montmorillonite clay alteration and an increase in mica.
104	107.5	3.5	69%	Fine-grained granodiorite to aplite with very fine-grained inclusions of granodiorite (2+%) about ½ in. in diameter. Rock is hard with very slight alteration; FeO_x is deposited in the fractures.
107.5	110	2.5 5	62%	Partially decomposed, fractured, weathered, granodiorite with FeO_x stains in fractures and seams.
110	115	5	none	Lost water at 110 ft and a 5 ft run was made with no core returned. Hole was branded and sludge was returned on the next run.
115	119	4	17%	Light grey aplite with limonite staining in seams. Rather fresh biotite blebs in core. Sludge appears to be granodiorite which indicates stringers of aplite in decomposed granodiorite. Lost water at 119 ft.
119	133	14	14%	Light grey, fine-grained aplite with FeO_x staining and minor montmorillonite clay development. Very thin, soft, fault clay at about 120 ft. No sludge returns.
133	138	5	14%	Light grey, fine-grained aplite with a few quarts "eyes" which have been oxidized. Sludge is high in quarts with minor biotite. Hole was cemented back 45 ft, then re-drilled
138	161	23	11%	Light grey, fine-grained aplite. Core is a combination of aplite pebbles and hard layers. Aplite is slightly FeO_x stained and has quarts "eyes", biotite grains, tremolite grains and shows minor MnO_x staining. Sludge is high in quarts and contains minor, rather fresh, biotite flakes.
161	170	9	20%	Bluish grey, fine-grained aplite with sericite clay development in seams. Sludge is quarts sand with biotite flakes.
170	171	1	20%	Hydrothermally altered, tan, fine-grained aplite with sericite clay alteration and slight FeO_x staining.
BX core				
171	175	4	100%	Fine-grained, yellow to light grey aplite. Limonite and MNO_x in seams and fractures. Rock is harder and less altered than above -- Montmorillonite clay in seams. Very fine grains of pyrite in minor amounts in the rock.
175	180	5	100%	Coarse-grained, greyish, slightly altered aplite with very minor fine-grained pyrite streaks. FeO_x and MnO_x stains in seams and fractures. FeO_x (1+%) MnO_x (1+%).

COPY

Summary of drilling. From 0 ft to 110 ft, the rock is a weathered, partially decomposed, fractured biotite granodiorite and granodiorite. From 110 ft to 180 ft, the rock is a light grey, fine-grained aplite with fractures large enough in which the drilling water may be lost. The aplite has been weathered to a slight extent and at 170 ft, it probably has been hydrothermally altered.

At least two faults were cut by the drilling, one at 75.5 ft and the other at 92 ft. The fault at 92 ft appears to be a fault zone with numerous thin slips throughout the foot-thick clay.

Respectfully submitted

Robert G. Garwood

Robert G. Garwood
Geologist

COPY

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 June, 1957 Docket No. DMEA 2374 Contract No. Idm - 3 604
Operator's Name Unont Mining Inc. Mineral Manganese
Address 506 Silver Bow Block, Butte, Montana 3
Contract Amount, $ 103,510.70 Government Participation: 75 % Amount, $ 81,283.00

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 Contractors:						
Facilities Install Pump						
Equipment & Equipment						
Drilling						
Shaft Excavation Shaft		2032.00	2032.00		2032.00	2032.00
Rehabilitation		3148.00	3148.00		3148.00	3148.00
Enlargement Rehabilitate		1600.00	1600.00		1600.00	1600.00
Drifting 400 Station						
400 x-cut Rehabil tation		4100.00	4100.00		4100.00	4100.00
(2) Labor and Supervision:						
Drifting 400 Level		12,512.00	12,512.00		12,512.00	12,512.00
Supervision						
Timbering		3,710.00	3,710.00		3,710.00	3,710.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling		600.00	600.00		600.00	600.00
* Underground Drilling		414.63	414.63		414.63	414.63
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		192.50	192.50		192.50	192.50
Payroll Taxes						
Liability Insurance						
Surface Drilling	744.00	1458.00	2202.00	744.00	1458.00	2202.00
Dozer Trenching		49.00	49.00		49.00	49.00
(8) Contingencies (specify):						
Stage 1		23,190.70	23,190.70		23190.70	23190.70
TOTALS	744.00	53,056.83	53,800.83	744.00	53,056.83	53,800.83

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

Date July 9, 1957 Payee Unont Mining, Inc.

Per Wilbur F. Cresswell President Manager

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

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

(Instructions on reverse)

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

$ 558.00

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 7/19/57 Vou. No. 2003
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195 7 Docket No. DMEA 2374 Contract No. Idn - B 604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address 506 Silver Bow Block, Butte, 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			x 12,512.00	391.0	32.00	550	32.00
400 Crosscutting Rehabilitation	ft			✓ 4,100.00	200.0	20.50	240	20.50
Raising Drift Timbering	ft			x 3,710.00	371.0	10.00	550	10.00
Install Pump & Facilities	job			2,032.00	comp	2032.00	1 job	2032.00
Shaft rehabilitation	job			3,140.00	comp	3140.00	1 job	3140.00
400 Station Enlarging Drilling Core	cu ft			1,600.00	3200	0.50	3200	0.50
Underground Drilling Churn	ft			414.63	86.5	4.79	920	5.00
Surface Rotary Drilling	ft	744.00	124.0	• 2202.00	367	6.00	1700	6.00
Stripping								
Bulldozer	hr			49.00	3 1/2	14.00	15	14.00
Spiling				600.00	20	30.00	50	30.00
Roads and Trails								
Assaying sample				192.50	55	3.50	140	3.50
TOTAL DISTRIBUTED COSTS		744.00		30,610.13				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage 1				22,100.70				
TOTAL COSTS		744.00		53,000.83				

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

REMARKS:

Date July 9, 1957 Operator Umont Mining Inc.

Per Gilbert F. Brewer Title Resident Manager

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

(Instructions on reverse)

(For Government use only)

RECEIVED JUL 29 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

NORWICH MINE

Silver Bow County

Montana

D M E A - 2784 Contract Idm E-604 Manganese

NARRATIVE REPORT

Period June 1, 1957 through June 30, 1957

EXTRA COPY
D M E A
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DATE | CODE

During the month of June, none of the underground work in progress was covered by subject contract. Stoping operations were prosecuted in 4-497 stope and 4-506 stope during the entire month.

A lateral and crosscut were driven 168 feet off the 400 drift west around and beyond the two headings, formerly lost by caves. The ground ahead and to the west was probed an additional 35 feet by long hole drilling without finding anything of significance except large quantities of water. For this reason further work was suspended indefinitely in this heading.

Surface diamond drill hole S-1 was extended from 243 feet to 367 feet for an advance of 124 feet, all AX size hole. This was accomplished with much difficulty as it was necessary to ream and case the hole to prevent caving. Much lost time was experienced due to pulling casing, reaming, re-casing, caving ground, attempts to cement the hole, using bentonite drilling mud, etc. The cost of this 124 feet amounted to $2016.50 or an average of $16.26 per foot. The cost of this hole to date, amounts to $4093.50 for an average cost per foot of $11.53.

The log of this hole, S-1, is attached, as well as a long section and plan showing its relation to the present 400 east drift face.

In the course of stoping operations, approximately 1650 long dry tons of ore were produced, having an average grade of 22.2% manganese and containing minor silver values.

It was necessary to do considerable repair work on the 300 level sill above the mining area to prevent its loss and use to the mining operations presently in progress below. The improvements to the mine ventilation system since mid-May were nearly completed this month.

Yours very truly,

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

WFC/am

UMONT MINING INC.

DRILL HOLE LOG

Norwich Mine DM A Contract in Silver Bow County., Montana

Hole # S 1, continued

JUNE DRILLING

Core Recovery AX average 69%

Hole Started May 9, 1957

Footage drilled in June 124 feet

Assays: During the month no assays were taken either of the core or sludge. Panning failed to indicate any minerals other than pyrite indigenous to the aplite drilled.

Drill Log continued: (For the interval 0-243 see May report)

From	to	Interval	Core Recovery	Description of core
243	252	9	80% ±	Relatively hard biotite dacite tuff with occasional intercalated mud seams between tuff units - Flow bands 25° to 35° to hole. Few inclusions. 243 - 244 much plagioclase.
252	260	8	100%	Even grained grey biotite dacite tuff. Flow bands 25° - 35° to hole. Many small flattened to semi angular inclusions of biotite dacite tuff. Entire section loosely consolidated.
260	268	8	85% ±	Grey to brownish loosely consolidated biotite dacite tuff. Many small (-½") inclusions. Flow bands 25° to vertical.
268	278	10	95% ±	From 268 - 276 fairly consolidated biotite dacite tuff; colored grey, many small inclusions. Some recemented fractures. Flow bands average about 35° to hole. From 276 to 278 barely consolidated.
278	288	10	75°+	Very soft, barely consolidated, brownish biotite dacite tuff, almost mud. Many small flattened inclusions (-½").
288	289	1	100%	Pegmatite aplite. Considerable oxidized pyrite in quartz "eyes". Some manganese oxide dendrites; occasional blades of black tourmaline.
289	295	6	80% ±	Pegmatite aplite, some oxidized pyrite - sulfide groups surrounded by limonitic stained halo; sparing thin tourmaline Xls. At 295' a 6" stringer of biotite dacite mud was cored, followed immediately by hard aplite.

From	to	Interval	Core Recovery	Description of core
295	~~336~~ 320	25	50% ±	Oxidized pegmatitic aplite. Select pyrite Xls in quartz eyes. Limonite and jarosite oxidation products. Possible small clay at 317'. Aplite tends to break in small pieces. Very little sericite.
320	336	16	50% ±	Principally easily fractured oxidized pegmatitic aplite. Minor biotite about 325'. From 327 - 336 an arent increase in amount of small pyrite Xls, not noticeably related to pegmatite eyes. Possible specks of chalcopyrite at 331. Panrings blank.
336	342	6	50% ±	Badly broken pegmatitic aplite, to aplite to granoaplite. Texture appears to vary from even coarse grained, to even grained and altered ferromagnesian minerals in minor amounts at 340.' discolor co o.
342	349	7	35% ±	Easily shattered ~~pegmatic~~ pegmatitic aplite. Most of core pale greenish due to chloritic alteration but also light sericitic alteration along some fracture lines Occasional crack coatings of fibrous, clove brown to greenish clay type of material. Pyrite, sparingly scattered thru rock not as oxidized as in upper portion of aplite mass.
349	359	10	35% ±	Coarse to even grained pegmatitic aplite. Some sections appear brittle. When wet, rock is pale olive greenish in color, due probably to chloritic alteration. Pyrite scattered thru rock rather uniformly. Unoxidized and little to no sericite observed. Speck of MoS_2 at 349.9.
359	362	3	50%	Comparatively fresh, even to coarse grained aplite. Occasional flecks biotite and unoxidized pyrite.
362	366	4	12%	Very soft drilling - for 3' no core recovery nor water return. Probable fault.
366	367	1	95%	Coarse pegmatite - aplite. Pyrite oxidized. Sharply different rock than that exposed by co o ~~from that revealed by core~~ from 359 - 362.

Summary of June drilling: From 243' to 289' the core revealed intercalated, apparently flat dipping biotite dacite tuff members, similar to the beds described in the May report. From 289 - 295 the material shown by the core was very soft, barely consolidated, brownish biotite dacite tuff containing many small, flattened inclusions. At 288 (assumed elevation 703) the drill penetrated pegmatite aplite, showing considerable oxidized pyrite in the quartz "eyes". Fractures showed manganese dendrites. At 295 the drill penetrated and cored a 6" stringer of biotite dacite and, followed immediately by hard pegmatite aplite. Aplite continued in the hole to point 362'. As depth was gained the pyrite in the aplite became fresher. Nowhere in the hole was any mineralization shown. From 363 to 366 some type of fault structure was encountered. The drilling at this point was unsatisfactory and an attempt will be made to get some information on this area when reaming goes thru the zone. The hole bottomed at 366 in hard, oxidized pegmatitic aplite.

Several interpretations of the core to date may be advanced. I am inclined to believe that the hole passed into quite from the volcanics at 289' displaying a normal volcanic basement complex. I am also inclined to believe that a branch of the "postulated fault" (suggested in the May report) was cut at 363 feet.

Average AX core recovery for June was 69%.

Robert H. Nelson

Robert H. Nelson

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 11 195

DATE	INITIALS	CODE
7/11	C	220
7/12	[illegible]	800
7/12	WSM	400

1201 N. Division Street
Spokane 2, Washington

July 8, 1957

Umont Mining Company
506 Silver Bow Block
Butte, Montana

Re: Docket No. DMEA 2874
Contract No. Idm-N604
Monthly operating report
for May 1957

Gentlemen:

Your attention is directed to the attached copy of a memorandum to the Field Team from the DMEA Certifying Officer which explains the addition made on the May MF-104.

By Field Team, Region I, NW Dist.

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald R. MacLaren, Acting Member
U. S. Geological Survey

cc: DMEA (2)
USGS (2)

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 7 Docket No. DMEA 2374 Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $ [illegible] Government Participation: 75 % 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 Contracts: Short Form [illegible]						
Drilling [illegible]		2082.00	2082.00		2082.00	2082.00
Bulldozing [illegible]		3148.00	3148.00		3148.00	3148.00
Crosscutting [illegible]		1600.00	1600.00		1600.00	1600.00
Drifting						
[illegible]		4100.00	4100.00		4100.00	4100.00
(2) Labor and Supervision: [illegible]		12,512.00	12,512.00		12,512.00	12,512.00
Labor						
Supervision [illegible]		3710.00	3710.00		3710.00	3710.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
[illegible]		600.00	600.00		600.00	600.00
Diamond Drilling				414.63	—	414.63
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		192.50	192.50		192.50	192.50
Payroll Taxes						
Liability Insurance						
Surface Cell In	[illegible]		[illegible]	1458.00	—	1458.00
Lower Trench [illegible]	[illegible]		49.00	49.00	—	49.00
(8) Contingencies (specify): [illegible]		23,190.70	23,190.70		23,190.70	23,190.70
TOTALS	[illegible]	[illegible]	[illegible]	1921.63	51,135.20	53056.83

RECEIVED JUL 12 1957 D.M.E.A.

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

Date 6/13/57 *Payee [illegible]

Per Gilbert T. Crawford 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:

$1441.22

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date 7-5-57 Vou. No. 1999

(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. Eo 604 in accordance with the terms of the contract.

Signature /s/ George T. Krempasky Title Mining Engr. Date 6/24/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Donald R. MacLaren Title Alternate Acting Executive Officer Date 6/27/57

MONTHLY REPORT OF OPERATOR

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(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.

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

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

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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 May 1957 Docket No. DMEA 237b 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
[illegible]	ft			12,512.00	311.00	37.00	[illegible]	32.00
Drifting [illegible]				4,100.00	200.00	20.50	200	20.50
Crosscutting [illegible]	ft			3,710.00	321.00	11.00	550	12.00
[illegible]	job			2012.00	[illegible]	2012.00	[illegible]	2012.00
Shaft [illegible]	job			3[illegible].00	[illegible]	[illegible]	job	[illegible]
Winze [illegible]	ft			1[illegible].00	320	0.50	320	0.50
Drilling: Core								
Churn [illegible]	ft	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	170	[illegible]
Diamond Drilling Auger	ft.	414.63	86.5	414.63	86.5		500	5.00 / 4.15
Stripping [illegible]	hr	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15hr	14.00
Trenching [illegible]				[illegible]	20	[illegible]	50	30.00
Test Pits								
Roads [illegible]				[illegible]	58	[illegible]	[illegible]	3.50
Total Distributed Costs		~~[illegible]~~ 1921.63						Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		~~[illegible]~~		~~[illegible]~~				
Total Costs		1921.63						

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

6/12/57 Date [illegible], Inc. Operator

Gilbert T. Cruswell Title Resident Manager

Remarks:

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

(Instructions on reverse)

(For Government use only)

/s/ George T. Krempasky, Mining Eng. 6/24/57

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

MORNICH MINE

Silver Bow County

Montana

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DATE	INITIALS	CODE

DMEA - 2874 Contract Idn E-604 - Manganese

NARRATIVE REPORT

Period May 1, 1957 through May 31, 1957

During the month of May, none of the underground work in progress was covered by subject contract. Stoping operations were prosecuted in 4-497 and 4-506 Stopes, during the entire month, each producing respectively 602 LDT and 1423 LDT which added to a small amount from miscellaneous sources adds up to a total monthly production of 2029 LDT. The ore produced this month contained an average of 22.43% manganese and had an average gross value of $2[illegible].00 per ton.

The latter part of the month an unsuccessful attempt was made to continue the 400 drift west. Due to running ground accompanied by a 50 g.p.m. flow of water, all attempts at spiling were futile and no advance was made. Considerable still repair work was accomplished the last ten days of the month.

Pursuant to terms of the contract and Amendment No 1 thereto, a surface diamond drill hole was started at coordinates 5520N and 5840 W. on a site previously prepared. At months end this hole had progressed to a depth of 243 feet and cost $2077.00 or an actual cost fo $8.55 per foot.

The preparation of the site by bulldozing, has been vouchered at the rate of $14.00 per hour for 3 1/2 hours; the drilling at the rate of $6.00 per foot for 243 feet, both in accordance with the contract.

The log of this hole S1 is attached, as well as a long section showing its relation to the present 400 east drift face and the stoping operations conducted during the month.

In the course of our mining operations the following lots of ore were produced and sold:

Lot No.	L.L.T.	Assay % Mn	Origin
Rs 48	80.0955	24.4	4-506 Stope
Rs 49	84.1482	25.8	4-506 Stope
Rs 50	80.2089	18.6	4-506 Stope
Rs 51	110.2942	19.6	4-506 Stope
Rs 52	212.4759	24.9	4-506 Stope
Rs 53	76.0522	18.4	4-497 Stope
Rs 54	114.5223	28.0	4-506 Stope
Rs 55	54.9429	27.2	4-506 Stope
Rs 56	84.9308	27.2	4-506 Stope
Rs 57	74.2459	20.3	4-497 Stope 25 cars 4-506 Stope 15 cars
Rs 58	186.1679	19.7	+ 5 cars from 400 Dr.W 4-497 Stope & 5 cars from 4-506 Sto
Rs 59	125.4929	26.8	4-506 Stope
Rs 60	71.8906	18.1	4-497 Stope
Rs 61	120.9884	21.9	4-506 Stope

Rs 62	125.9665	19.2	4-506 Stope
Rs 63	129.4201	27.1	4-506 Stope
Rs 64	96.1920	20.8	4-497 Stope
			4-497 Stope 20 cars
Rs 65	24.1795	20.7	4-506 Stope 31 cars
Dr 40	62.9670	19.0	
Dr 41	75.0455	17.3	
Dr 42	39.6362	19.1	4-497 Stope
	2029.0134	22.43%	

Respectively submitted,

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

Encl: 4

COPY

UMONT MINING INC.

DRILL HOLE LOG

Norwich Mine DMEA Contract in Silver Bow Co., Montana

Hole # S 1

Location: On Plutus Patented claim in Sec. 15., T.3N., R.8W.
At mine coordinates 5520 N, and 5840 E.
Hole drilled vertically from surface
Collar El. assumed 991 feet
Bottom El. as of 5/31/57 assumed 648 feet
Dept drilled during May, 1957 243 feet

Size of cores
NX 5' to 10'
BX 10' to 26'
AX 26' to 243

Core Recovery Nx 60% BX 75% AX average 6[illegible]%

Hole started: May 9, 1957

Monthly footage 243 feet

Type of Drill Boyles Bros. T H S

Assays:
During the month no assays were taken either of the core or sludge. Panning failed to indicate any sulfide or heavy minerals.

From	to	Interval	Core Recovery	Description of core
0'	9	9	60%	Volcanic ash, loosely consolidated with few inclusions of Biotite dacite tuff
9	29	29	75%	Biotite dacite tuff, blue grey in color. Large included fragments (+ 1 inch) near top of flow, diminishing in size near bottom of hole. Included fragments semi-angular and flattened lying parallel with flow banding all of which appears to dip about 20°.
29	37	8	75%±	Soft, semiconsolidated biotite dacite tuff; light grey in color, less than ½ inch inclusions, flattened, lost water at 37 feet, but no fault structure apparent.
37	60	23	70%±	Soft, semi consolidated biotite dacite tuff; light grey in color; variable soft included fragments of light biotite dacite tuff.

60	100	40	70% ±	Fault clay at 60 feet, dip ing 60° to hole. Possibly rhyolite tuff containing ½" or less biotite dacite tuff fragments. Some orthoclase crystals 3 mm or less. Flow banding steep, ± 60° to 75°. Rock yellowish in color with intermixed grey clay. Mud seam at 92' and at 97' Faulty clay at 100 feet dipping 60° to hole. From 60' to 100' the rock mass is highly altered and contains much unidentified, greasy, talcy mineral, pinkish when wet, and also dickite. Unit from 60' to 100' may represent rhyolite dike possibly 20 feet thick intruded along fault zone dipping 60°, the strike of which is unknown.
100	116	16	50%±	Flat lying, soft, poorly consolidated biotite dacite tuff. Small, flattened fragments included in ashlike matrix. Mud seam at 116 feet.
116	153	37	50%±	Entire section, flat lying, poorly consolidated biotite dacite tuff. Interval 120 to 121 and interval 139 to 141, a hard reddish rock, possibly rhyodacite. (similar in appearance to like boulders found on the surface and in bulldozer cuts) inclusions embedded in soft biotite dacite tuff were observed. Most of cores obtained came from harder members of the flat-lying tuffs.
153	175	22	50%±	Entire section, light colored, flat lying intercalated soft and softer biotite dacite tuffs. Inclusions all small and semi-angular, usually harder than enclosing rock which at times was a sand, the grains of which are all - 20 mesh.
175	176	1	100%	6 inches very fine (-300 mesh) grey clay. Fine grained biotite dacite tuff both above and below member.
176	243	67	50% ±	Entire section intercalated unconsolidated to loosely consolidated biotite dacite tuff. Colors grey, greenish-grey, yellowish and bluish grey. Variable quantities of inclusions but seldom more than 25% of mass is inclusions. At interval 202 feet a pea size, rounded fragment of aplite was observed, and also a small pebble of rhyolite both obviously enclosed in essentially ash.

DMEA Field Team, Region I, NW District July 8, 1957

DMEA Certifying Officer, Region I

Contract Idm-2604, Unout Mining Company
Monthly operating report for May 1957

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

An amount of $414.63 has been added to the May MF-104 submitted by the Operator. This covers 86.5 feet of diamond drilling which was disallowed on the previous voucher. Approval has been received to drill Hole No. 5 and also approval for EX drilling in addition to AX or larger size. Payment was made as follows:

11	ft.	EX size	@ $5.00	$55.00
4	ft.	AX "	@ 5.00	20.00
71.5	ft.	EX "	@ 4.75	339.63
86.5				$414.63

Dorothy F. Long

cc: DMEA (2)
USGS (2)
Contract Admin. (2)

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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] Inc. Minerals [illegible]
Address [illegible]
Contract Amount, $ ~~[illegible]~~ 106,010.70 Government Participation: 75 % Amount, $ ~~[illegible]~~ 79,508.00

WSM

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 Contracts:						
Short Form						
Drilling		2082.00	2,082.00		2082.00	2082.00
Bulldozing		3148.00	3,148.00		3148.00	3148.00
Crosscutting		1600.00	1,600.00		1600.00	1600.00
Drifting						
[illegible]		4100.00	4,100.00		4100.00	4100.00
(2) Labor and Supervision:						
Labor	[illegible]	12326.40	12,512.00	185.60	12326.40	12512.00
Supervision	[illegible]	3652.00	3,710.00	58.00	3652.00	3710.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
[illegible]		[illegible]	[illegible]		600.00	600.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		[illegible]	[illegible]		192.50	192.50
Payroll Taxes						
Liability Insurance	[illegible]	—	[illegible]			
(8) Contingencies (specify):		23,190.70	23,190.70		23,190.70	23,190.70
TOTALS	[illegible]	[illegible]	[illegible]	243.60	50,891.60	51,135.20

RECEIVED MAY 22 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] Inc.

Per [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:

$ 182.70

Signature Dorothy F. Lay
(Authorized Certifying Officer)

Date 5/20/57 Vou. No. 1981

(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 604 in accordance with the terms of the contract.

Signature /s/ George T. Kenyady Title Mining Engineer Date 5/14/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ A. E. Weissenborn Title Exec. Officer Date 5/17/57

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 1962)

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 April 1957 Docket No. DMEA 2274 Contract No. [illegible]
Operator's Name [illegible], Inc.
Minerals [illegible]
Address [illegible], Butte, [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	ft	129.60	5.0	1,512.0	32.00	32.0	50	32.00
Crosscutting	ft			4,10[illegible].0	200.00	20.5	210	20.50
Raising	ft	5[illegible].00	5.0	3,[illegible].00	12.0	[illegible]	50	[illegible]
Rehabilitation	job			2,082.0	[illegible]	2082.00	1 job	2082.00
Shafts	job			3,[illegible].00	[illegible]	[illegible]	1 job	[illegible]
Winzes	[illegible]			1,200.0	3200	0.50	3200	0.50
Drilling: Core	ft	4[illegible].50	8.5	1[illegible].0	15.5	5.0	920	5.00
Churn	ft						1700	6.00
Auger	ft						300	[illegible].00
Stripping	[illegible]							
Trenching	ft			600.00	20.0	30.00	50	30.00
Test Pits								
Roads and Trails	[illegible]			1[illegible].50	5[illegible].0	[illegible]	1[illegible]	[illegible].50
TOTAL DISTRIBUTED COSTS		676.10						TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				2[illegible],1[illegible].70				
TOTAL COSTS		676.10		3,56[illegible].70				[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.

5/6/57 Date [illegible], Inc. Operator

Per Arthur T. Criswell Title President Manager

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

REMARKS:

(Instructions on reverse)

(For Government use only)

/s/ George T. Kempsey, Mining Engineer, 5/14/57

RECEIVED MAY 24 1957 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.

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NORWICH MINE

Silver Bow County
Montana

DMEA - 2874 Contract Idm E-604 - Manganese

NARRATIVE REPORT

Period April 1, 1957 through April 30, 1957

During the month of April, none of the work in progress was covered by subject contract. However, $676.10 is vouchered which covers work previously done that for one reason or another, had not yet been reported.

The heading of the 400 Drift east, was advanced, with timber, 5.8 feet during the first two days of December 1956. This is the advance now being vouchered.

During January a diamond drill hole was run N45° E at plus 5° from the face of the 400 Drift east, a distance of 86.5 feet. The coordinates of the collar of this hole are 5515N and 5643E. Its purpose was to test the ground ahead and to the left of the area through which the drift would advance, (when drifting is ultimately resumed) for dangerous amounts of water, and at the same time test for ore a structure which broke away, at an acute angle into the footwall, from the mineralized zone being drifted on.

Authority to voucher for this drill hole is provided by Amendment No. 1 to subject contract, dated March 1, 1957. The work was done prior to the signing of the amendment which was pre-dated to the effective date of the amended contract to cover this work. It should also be noted this amendment raises the total allowable costs under subject contract from $106,010.70. to $108,510.70, and the governments participation from $79,508,00 to $81,283.00.

This hole was started BX with the intention it would at no time be reduced to less than AX in size and the driller was so instructed. However at 15 feet of advance he, without authorization, reduced to EX size because of unfavorable ground conditions and had proceeded 20 feet with this size before it was discovered. The hole was taking so much time, and costing so much money, it was not deemed advisable to require him to back up for reaming and casing to AX size through the difficult ground and it was allowed to proceed EX size. This hole cost a total of $534.82 or $6.18 per foot and required 12 days to complete. As completed, it was drilled BX 0 to 11 feet; AX 11 to 15 feet; and EX 15 to 86.5 feet.

During April the 4-497 Raise in the west end of the mine, holed the 300 foot level after being advanced from a point 102 feet above the 400 sill. Total length of this raise is 134 feet which represents an advance of 32 feet during the month.

Stoping operations were prosecuted vigorously with the majority of the production coming from the above 400 Drift west, a much smaller amount from above the 400 Drift east, and the remainder from development and stope preparation operations. In the course of this work, 25 lots of ore were produced and sold as detailed below:

Lot no.	Cars	L.D.T.	Assay % Manganese	Origin
Rs 30	78	35.0642	24.9	4-506 Stope
Rs 31	104	88.8718	21.6	4-506 Stope (1 car 400 Dr. W)
Rs 32	115	82.8522	22.2	4-506 Stope
Rs 33	141	92.9237	21.6	4-506 Stope
Rs 34	127	128.3487	22.2	4-506 Stope (9cars 400 Dr. W)
Rs 35	145	127.3482	21.5	4-506 Stope (4cars 400 Dr. W)
Rs 36	105	68.3460	21.7	4-506 Stope (29 cars 400 Dr. W)
Rs 37	54	82.0478	24.1	4-506 Stope
Rs 38	71	115.2439	16.3	4-506 Stope
Rs 39	97	82.6710	30.9	4-506 Stope (22 cars 400 Dr. W)
Rs 40	91	122.5844	19.5	4-506 Stope
Rs 41	103	83.1701	26.3	4-506 Stope
Rs 42	56	41.3480	18.8	4-553 Stope (20 cars 4-506 Stope)
Rs 43	99	82.2531	24.8	4-506 Stope
Rs 44	96	64.9951	22.0	4-497 Stope
Rs 45	77	77.2531	22.2	4-497 Stope
Rs 46	90	116.3763	20.3	4-497 Stope
Rs 47	29	40.5866	22.0	4-497 Stope (11 cars 4-506 Stope)
Dr 33	112	99.9339	20.1	4-557 Stope (36 cars 4-497 Raise)
Dr 34	99	79.9451	18.2	4-557 Stope (27 cars 4-497 Raise)
Dr 35	95	83.8348	15.0	4-557 Stope (13 cars 4-497 Raise)
Dr 36	86	158.7509	15.6	4-557 Stope (36 cars 4-497 Raise)
Dr 37	88	85.0857	23.9	4-506 Stope
Dr 38	28	41.3442	21.2	4-506 Stope
Dr 39	97	86.6603	25.4	4-506 Stope
Totals & averages	2283	2167.8481	21.32	

The geologic plan map accompanying this report shows the position of the drilling vouchered this period, and the longitudinal section in the plane of the vein shows the stoping activities.

COPY

Yours very truly,
Umont Mining, Inc.

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

UMONT MINING INC.

DRILL HOLE LOG

Norwich Mine Silver Bow Co., Montana

Diamond Drill Hole # 1

East drift from 400 level of Plutus shaft.

of hole: N 45° E., Inclination of hole + 5°
Coordinates of collar of hole: 5515 N., 5643E
Coordinates of toe of hole: approx 5575 N., 5703 E
Elevation of toe of hole: assumed 618 ±
Elevation of collar of hole: assumed 612 ±

Length of Hole: 86.5'
Size of cone: 11' Bx, 4' Ax, 71' Ex
Cone recovery: In altered country rock 25% ±
In vein structure 0.1' in 5 foot run of
Date hole started 1/8/57 ; completed 1/22/57
Type of drill and size: Canadian Boyles Bros.

Cone sample assays: None
Cuttings or sludge sample assays:

11-14' pannings blank
14-20 pannings blank
20-26 pannings blank
35-40 pannings blank assays trace Ag
40-45 pannings blank assayed 0.2 Ag
45-50 pannings blank assayed 0.4 Ag
50-55 pannings blank assayed 0.3 Ag
55-60 pannings blank assayed 0.1 Ag
60-65 pannings blank assayed 0.4 Ag
65-70 pannings blank assayed 0.2 Ag 0.3 Mn
70-75 pannings showed few flecks
Azurite, PbS, ZnS assayed 2.8 Ag 0.4% mn 0.01 Au
and considerable pyrite tr. Pb 0.05 Zn
75-80 panned blank assayed 4.0 oz Ag 0.6% Mn
80-85 panned blank assayed 0.5 Ag 0.3 Mn

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DMEA
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DATE	INITIALS	CODE

X X X X X X

From	To	Interval -	%Recovery	Description
0	11	11	18%	Fragments even grained to pegmatitic aplite, pyrite eyes
11	15	4	30%	Coarse grained to peg. aplite some clay at 12'.
16	21	5	20%	Coarse grained to peg. aplite con d well in spite of indicated recovery
21	26	5	16%	Even grained olive green aplite
26	31	5	20%	Even grained olive green aplitic. Little FeS_2
31	35	4	10%	Even to coarse grained aplite. Little FeS_2

35	40	5	13%	Even to coarse grained aplite. Little FeS_2
40	45	5	16%	Even to coarse grained aplite. Some pegmatitic Qtz and FeS_2
45	50	5	16%	Coarse grained to peg aplite. Some MoS_2
50	55	5	20%	Even to coarse grained to pegmatitic aplite. Clay @ 52'
55	60	5	20%	Pegmatitic aplite. Fair amount FeS_2
60	65	5	50%	Hard, siliceous pegmatitic aplite. Small to fair FeS_2
65	69	4	87.5%	Coarse to peg. aplite. Small to fair FeS_2
69	70	1	0%	Clay-panned blank
70	75	5	0.2%	Few flecks azurite, some FeS_2 in coarse grained aplite. Sludge panned little sulfids and ~~Mn~~ CO_3
75	80	5	20%	Coarse to even grained granaplite to aplite with few peg. inclusions, all somewhat sericitized.
80	85	5	40%	Coarse grained to pegmatitic aplite or grano-aplite, all somewhat altered.

COPY

DMEA Field Team, Region I, NW District May 20, 1957

DMEA Certifying Officer, Region I

Contract I6m-2604, Umont Mining Company
Monthly operating report for April 1957

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

A disallowance of $432.50 has been made covering costs claimed for 86.5 feet of diamond drilling. Authority for drilling this hole is provided in Amendment No. 1 and the signed Amendment has been reported lost in transit. Upon receipt of Amendment No. 1 the Operator may reclaim 15 feet of the 86.5 feet previously vouchered. The 71.5 feet is disallowed because it does not conform to AX size specified in the contract.

Dorothy F. Long

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

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 1957
DATE | INITIALS | CODE

Government Messenger Envelope

No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a time.
2. Void previous block.
3. Write clearly.

R TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
[illegible] Office [illegible]	RUN / STOP		RUN / STOP
Accounts [illegible]	RUN / STOP		RUN / STOP
[illegible]	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
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velopes to reissue.

Use other side

Use RUN and STOP only when messenger service between Government buildings in Washington is required.
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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 March, 1957 Docket No. DMEA 2874 Contract No. Idm E-604
Operator's Name Umont Mining, Inc. Minerals Manganese
Address 506 Silver Bow Block, Butte, Montana
Contract Amount, $ 106,010.70 Government Participation: 75% Amount, $ 79,508.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY W34 Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts: Install pump						
Facilities & Equipment						
Drilling: Raise shaft		2082.00	2082.00			
Shaft Rehabilitation		3148.00	3148.00			
Enlarging and Rehabilitation		1600.00	1600.00			
Crosscutting: 400 station						
Drifting						
400 x-cut Rehabilitation		4100.00	4100.00			
(2) Labor and Supervision:						
Drifting: 400 Level East		12326.40	12326.40			
Timbering		3652.00	3652.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling		600.00	600.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		192.50	192.50			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify): Stage 1		23,190.70	23,190.70			
TOTALS		50,891.60	50,891.60			

Memo only No Payment

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

Date 4/3/57 *Payee Umont Mining, Inc.

By Gilbert T. Crowell Title Resident Manager

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

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

(Instructions on reverse)

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

$ —o—

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date ..... Vou. No. .....
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form ME-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1957 Docket No. DMEA 2874 Contract No. Idm E-604
Operator's Name Umont Mining, Inc. Minerals Manganese
Address 506 Silver Bow Block, Butte, 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			12,326.40	385.2	32.00	550	32.00
400 Crosscutting Rehabilitation	ft			4,100.00	200.0	20.50	240	20.50
Raising Drift Timbering	ft			3,652.00	365.2	10.00	550	10.00
Installing Pump & Facilites	job			2,082.00	comp	2082.00	job	2082.00
Winzes Shaft Rehabilitation	job			3,148.00	comp	3148.00	job	3148.00
400 Stoping Ore Enlarging	cu ft			1,600.00	3200	0.50	3200	0.50
Diamond Core Drilling	ft						420	5.00
Surface Drilling	ft						1700	6.00
Stoping Extra Timber	ft						100	8.00
Trenching Spiling	ft			600.00	20.00	30.00	50	30.00
Test Pits								
Roads and Trails								
Assaying	ft			192.50	55.0	3.50	140	3.50
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage 1				23,190.70				
TOTAL COSTS				50,891.60				106,010.70

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

REMARKS:

Date 4/3/57 Operator Umont Mining, Inc.

Per Schilling T. Cruswell Title Resident Manager

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

(Instructions on reverse)

(For Government use only)

RECEIVED APR 15 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

NORWICH MINE

Silver Bow County

Montana

DMEA - 2874 Contract Idm E-604 - Manganese

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

NARRATIVE REPORT

(Period March 1, 1957 through March 31, 1957)

During the month of March none of the work in progress was covered by subject contract, and no charges are being reported on the accompanying forms.

No drifting was done this month. 4-497 raise near the face of the west drift was advanced to a point 102 feet above the sill during the month for an advance of 19 feet. The 4-557 raise was carried up an additional 12 feet with the 4-557 stope to a point 52 feet above the sill of the 400 drift east.

On the east side of 4-506 raise, in the west drift, the 4-506 stope was started and mined up 3 cap floors above the sill timber for 9 sets east of the aforementioned raise, by the end of the month. The blind stope 4-557 being mined between 4-553 and 4-557 raises in the east drift was carried up one additional floor to 5 regular floors above the sill timber at which point the back became too low grade to mine. This stope was then filled.

In the course of this work, 18 lots of ore were shipped as detailed below:

Lot No.	Cars	L.D.T.	Assay	Origin
Rs 19	86	122.88	18.2	4-557 Stope
Rs 20	292	161.38	15.9	4-506 Stope
Rs 21	97	85.57	22.2	4-506 Stope
Rs 22	91	84.23	21.1	4-506 Stope
Rs 23		11.73	18.3	4-506 Stope
Rs 24	94	89.41	29.0	4-506 Stope
Rs 25	47	44.61	25.7	4-506 Stope
Rs 26	49	43.83	22.8	4-506 Stope
Rs 27	152	103.71	21.3	4-506 Stope
Rs 28	42	60.52	21.9	4-506 Stope 6 cars from 400 Dr. W.
Rs 29	110	127.89	**	4-506 Stope
Dr 26	92	109.95	14.9	4-557 Stope
Dr 27	72	39.47	12.5	4-557 Stope
Dr 28	60	78.15	13.9	4-557 Stope
Dr 29	43	39.65	17.5	4-497 Raise
Dr 30	113	105.05	19.7	4-557 Stope 55 cars 4-545 Raise 14 cars 4-497 Raise 44 cars
Dr 31	57	54.84	15.5	4-557 Stope 39 cars 4-497 Raise 18 cars

Dr 32 66 ** ** {4-557 Stope 21 cars
{4-497 Raise 45 cars

1563*

cars hoisted April 1, 49 of which went into Rs lot 29, and 42
nto drift lot 32.
not available

Because there was no advance under contract this month, no map is included
this report.

Yours truly,
Umont Mining, Inc.

Wilbur F. Criswell
Wilbur F. Criswell
Resident Manager

WFC:am

COPY

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

MAR 11 REC'D

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1957 Docket No. DMEA 2874 Contract No. IDm-E-604
Operator's Name Umong Mining, Inc., Minerals Manganese
Address 506 Silver Bow Block Butte, Montana
Contract Amount, $106,010.70 Government Participation: 75 % Amount, $79,508.00

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: Install pump						
Facilities & Equipment						
Mining: Plutus shaft		2082.00	2082.00			
Shaft Building: Rehabilitation		3148.00	3148.00			
Enlarging & Consolidation: Rehabilitation		1600.00	1600.00			
Drifting: 400 station						
400 x-cut Rehabilitation		4100.00	4100.00			
(2) Labor and Supervision:						
Drifting: 400 level east		12326.40	12326.40			
Supervision: Timbering		3652.00	3652.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling		600.00	600.00			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		192.50	192.50			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Stage 1		23,190.70	23,190.70			
TOTALS		50,891.60	50,891.60			

RECEIVED MAR 1957 D.M.E.A.

WSM

Memo only

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

Date 3/6/57 *Payee Umont Mining, Inc.,

Per Gilbert F. Muswell Title Resident Manager

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

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

(Instructions on reverse)

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

$ —0—

Signature Dorothy Long
(Authorized Certifying Officer)

Date Vou. No.
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

MAR 11 REC'D

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1957 Docket No. DMEA 2874 Contract No. Idm-E-604

Operator's Name Umont Mining Inc.,

Minerals Manganese

Address 506 Silber Bow Building, Butte, 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			12,326.40	385.2	32.00	5.50	32.00
400 ~~xxxxxxxxx~~ Rehabilitation	ft			4,100.00	200.0	20.50	240	20.50
~~xxxx~~ Drift Timber	ft			3,652.00	365.2	10.00	5.50	10.00
Shafts Installing pump & facilities	job			2,082.00	comp	2082.00	job	2082.00
Shaft Rehabilitation	job			3,148.00	comp	3148.00	job	3148.00
Winzes 400 Station enlarging	cu ft			1,600.00	3200	0.50	3200	0.50
Drilling: Core Diamond ~~xxxx~~ drilling	ft						420	5.00
Churn Surface ~~xxx~~ drilling	ft						1700	6.00
Auger Stripping Extra timber	ft						100	8.00
Trenching Spiling	ft			600.00	20.00	30.00	.50	30.00
Test Pits								
Roads and Trails								
Assaying	ft			192.50	55.0	3.50	140	3.50
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage1				23,190.70				
TOTAL COSTS				50,891.60				106,010.70

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

Date 3/6/57 Operator Umont Mining, Inc.,

Per Gilbert F. Brunwell Title Resident Manager

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

REMARKS:

(Instructions on reverse)

(For Government use only)

RECEIVED MAR 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

MAR 11 REC'D

EXTRA COPY
D M E A
RECEIVED MAR 28 1957

DATE	INITIALS	CODE

NORWICH MINE

Silver Bow County

Montana

DMEA-2874 - Contract Idn E-604 - Manganese

NARRATIVE REPORT

(Period: February 1, 1957 through February 28, 1957)

COPY

During the month of February none of the work in progress was covered by subject contract, and no charges are being reported on the accompanying forms.

The 400 East Drift was not advanced. The 400 Drift West was advanced 56 feet to a point within a few feet of the western end line of the Norwich claim by February 9, when a moderate flow of water was encountered. Initially due to surges it amounted to about 200 gpm, although in a few days it had dropped off to a steady flow of about 126 gpm.

Normally, the ground in this area is such that, when reasonably dry it will stand open about the time required to muck out a round and timber. With the quantity of water encountered, the ground runs so badly further advance in this heading was impossible until the water has drained down somewhat and further attempts to advance this heading were abandoned for the present.

The raise numbered 4-497 was advanced 50 feet during the month to a point 81 above the sill. 4-506 raise was advanced 22 feet and holed the 300 foot level.

At a point 120 feet east of the 400 x-cut and 80 feet back from the face of the 400 Drift East, the 4-497 raise started and advanced 3 feet in January, was advanced to a point 40 feet above the sill. A blind stope was then started westward from this raise to extract the ground between 4-557 and 4-553 raise to the west. This block is 6 sets long and had been mined four floors above the sill by the end of the month.

In the course of this work 13 lots of ore were shipped as detailed below:

Lot No.	L.D.T.	Assay	Origin
Rs Lot 8	33.82	18.5	4-506 Raise
Rs Lot 9	57.6	16.7	4-557 Raise
Rs Lot 10	90.9	23.5	4-506 Raise 4-497 Raise
Dr. Lot 24	88.9	15.2	4-557 Raise
Rs Lot 11	46.1	15.7	4-557 Raise 4-497 Raise
Rs Lot 12	119.6	17.2	4-557 Raise 4-497 Raise
Rs Lot 13	155	17.6	4-557 Stope 4-557 Raise
Rs Lot 14	121	19.6	4-497 Raise 4-506 Raise
Rs Lot 15	128	18.9	4-557 Stope
Rs Lot 16	134	19.0	4-557 Stope 4-497 Raise
Dr Lot 25	133	28.1	4-506 Raise

MAR 1 1 REC'D

Rs Lot 17	74	17.9	4-557 Stope
Rs Lot 18	174	18.4	4-557 Stope 4-497 Raise

Because there was no advance under contract this month, no map is included with this report.

Very truly yours,

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

WFC/am

COPY

Form MF-10[illegible] (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1957 Docket No. DMEA 2874 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 WBM: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contractors:						
Short Form						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
[illegible]						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
[illegible]						
TOTALS						

RECEIVED FEB 21 1957 D.M.E.A.

memo only no payment

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

Date [illegible] *Payee [illegible]

Per Gilbert F. Cresswell 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:

$ —0—

Signature Dorothy F. Long
(Authorized Certifying Officer)

Date ..... Vou. No. .....

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form M
(April 1

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of [illegible] 195[illegible] Docket No. DMEA [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]
Crosscutting	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Raising	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Shafting	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Winzing	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drilling: Core	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drilling: Churn	[illegible]						[illegible]	[illegible]
Drilling: Auger	[illegible]						[illegible]	[illegible]
Stripping	[illegible]						[illegible]	[illegible]
Trenching				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Test Pits								
Roads and Trails								
Assaying				[illegible]	55.0	[illegible]	[illegible]	[illegible]
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage I				[illegible]				
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 Feb. [illegible] Operator [illegible]

Per William F. Russwill 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)

RECEIVED FEB 21 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 87-2894

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DATE	INITIALS	CODE

NORWICH MINE

Silver Bow County

Montana

DMEA-2874 - Contract Idm E-604 - Manganese

NARRATIVE REPORT

(Period: January 1, 1957 through Jan. 31, 1957)

COPY

During the month of January none of the work in progress at the Norwich Mine was covered by subject contract, and no charges are being reported on the accompanying forms.

The 400 East Drift was not advanced. The 4-553 Raise was stopped about 40 feet above the sill because the last four sets had advanced in waste. An EX diamond drill hole 86 feet long was drilled from the east breast North 45 degrees East plus 5 degrees to probe for water and geologic structure.

The 400 West Drift was advanced to a point about 140 feet east of the Mapleton end line where it was lost due to caving. At a point about 35 feet east of the caved breast a six post raise was started which was 31 feet above the sill as the month ended.

The raise started in December 385 feet west of the 400 level crosscut (90 feet east of 4-497), known as 4-506 raise was advanced during the month to a point about 85 feet above the 400 sill.

In the course of this work 14 lots of ore were shipped, as detailed below:

Lot No.	L.D.T.	Assay	Origin
17)			400 West Drift
18) Combined	238.06	13.2	5 Tons from 4-553 Raise
19	59.73	22.0	400 West Drift
20	104.24	21.3	400 West Drift
21	130.20	20.7	400 West Drift
22	19.22	26.5	400 West Drift
23	39.20	19.2	4-506 Raise
Raise Lot 1	55.50	25.3	4-506 Raise
Raise Lot 2	99.04	22.6	4-506 Raise
Raise Lot 3	47.06	21.6	4-506 Raise
Raise Lot 4	45.00*	20.0*	4-497 Raise
Raise Lot 5	137.16	22.7	4-497 Raise
Raise Lot 6	94.93	17.0	400 West Drift - 15 Tons 4-506 Raise - 80 Tons
Raise Lot 7	88.07	18.7	4-506 Raise

*Estimated

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D M E A
RECEIVED
DATE | INITIALS | CODE

Because there was no advance under contract this month, no map is included with this report.

Very truly yours,

W. F. Criswell
Resident Manager

WFC:k

COPY

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 December, 1956 Docket No. DMEA 2374 Contract No. [illegible]
Operator's Name Mont Mining, Inc. Minerals Manganese
Address P. O. Box 727, Butte, Montana
Contract Amount, $ 136,210.70 Government Participation: 75% Amount, $ 72,[illegible].00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY WSM: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contractors:						
Drilling Lotus Shaft		2082.00	2082.00		2082.00	2082.00
Shaft Rehabilitation		3148.00	3148.00		3148.00	3148.00
Enlarging Rehabilitation						
400 Y-Cut Station		1600.00	1600.00		1600.00	1600.00
400-X-Cut Rehabilitation		4100.00	4100.00		4100.00	4100.00
(2) Labor and Supervision:						
Drifting - 200 Level East		12326.40	12326.40		12326.40	12326.40
Timbering		3652.00	3652.00		3652.00	3652.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling		600.00	600.00		600.00	600.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		192.50	192.50		192.50	192.50
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Stage I		23,190.70	23,190.70		23190.70	23190.70
TOTALS		50,891.60	50,891.60	—0—	50891.60	50891.60

RECEIVED JAN 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 1/3/57 *Payee Mont Mining, Inc.

Per Wilbur F. Criswell Title President Manager

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

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

(Instructions on reverse)

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

$ —0—

Signature MAP
(Authorized Certifying Officer)

Date 1-11-57 Vou. No. None
(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. E604 in accordance with the terms of the contract.

Signature /S/ George D. Krempasky Title Mining Engr Date 1-7-57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weissenborn Title Exec Officer Date 1-10-57

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

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

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]	[illegible]
Crosscutting	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Raising	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Shafts	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Winzes	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drilling: Core	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Churn	[illegible]						[illegible]	[illegible]
Auger	[illegible]						[illegible]	[illegible]
Stripping	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Trenching								
Test Pits								
Roads and Trails	[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.				[illegible]				
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 Chilton F. Caswell Title [illegible]

REMARKS: [illegible]

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

(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

NORWICH MINE

Silver Bow County

Montana

DMEA-2874 - Contract Idn E-504 - Manganese

NARRATIVE REPORT

(Period: 12/1/56 through 12/31/56)

COPY

During the month of December, none of the work underway at the Norwich Mine was covered by subject contract and no charges are being reported on the accompanying forms.

The 400 East drift heading was shut down to permit milling out the ore where it was found to be more than drift wide. In the course of this work, 57.9929 long dry tons of ore assaying 15% manganese were recovered and shipped as Lot #7. A raise designated as 4-553 Raise was then started at a point about 100 feet East of the X-cut. At the end of this month the raise was up about 40 feet above the track. In the course of this work, two lots of ore were produced: Lot No. 8 comprising 63.1259 long dry tons assaying 16% manganese, and Lot No. 14 comprising 63.5647 long dry tons assaying 13.7% manganese.

All of the above work was prosecuted on a one-shift basis.

The West drift heading was advanced on a two-shift basis from a point about 378 feet west of the 400 X-Cut to a point 499.5 feet west of the origin. An additional 21.4 feet were driven on a footwall vein. The total advance achieved in this heading during December was about 142.5 feet. In the course of this work, four lots of ore were produced and shipped as follows: Lot No. 6 comprising 304.2357 long dry tons assaying 24.6% manganese; Lot No. 9 comprising 119.946 long dry tons assaying 27.2% manganese; Lot No. 10 comprising 70.6223 long dry tons assaying 29.9% manganese, and Lot No. 16, on which neither the official weight or grade is available.

Progress in the West drift was temporarily suspended December 17 through the 27th while a raise was started at a point about 385 feet west of the 400 level X-Cut. At the end of the month, this raise was up about 26 feet above the track. In the course of this advance, four lots of ore were produced and shipped as follows: Lot No. 11 comprising 129.3629 long dry tons assaying 21.3% manganese; Lot No. 12 comprising 71.392 long dry tons assaying 22.1% manganese; Lot No. 13 comprising 71.1076 long dry tons assaying 27.9% manganese; and Lot No. 15 comprising about 140 long dry tons but on which official assays are unavailable. The grade of this shipment is estimated at 25% manganese.

JAN 5 REC'D

Ore produced intermittently from drift advance during the latter part of September and the month of November, and held in inventory, was also shipped this month combined Lots Nos. 2, 3, 4, and 5. They aggregate 632.521 long dry tons assaying 12.6% manganese.

Because there was no advance under contract this month of December, no map is included with this report.

Very truly yours,

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

WFC:k

COPY

W

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

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY WBM		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted] Independent Contracts:						
Short Form		[redacted]	[redacted]		2082.00	2082.00
Drilling		[redacted]	[redacted]		3148.00	3148.00
[redacted]		[redacted]	[redacted]			
Crosscutting		[redacted]	[redacted]		1600.00	1600.00
Drifting		[redacted]	[redacted]		4100.00	4100.00
(2) Labor and Supervision:	[redacted]	[redacted]	[redacted]	3568.00	8758.40	12326.40
Labor	[redacted]	[redacted]	[redacted]	1115.00	2537.00	3652.00
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track		[redacted]	[redacted]		600.00	600.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	[redacted]	[redacted]	[redacted]		105.00	192.50
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):		[redacted]	[redacted]			
					23190.70	23190.70
	[redacted]	[redacted]	[redacted]			
TOTALS				4770.50	46121.10	50891.60

RECEIVED DEC 17 1956 D.M.E.A.

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

Date [redacted] *Payee [redacted]

Per Gilbert F. Criswell Title [redacted]

*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:

$ 3577 88

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

Date 12-11-56 Vou. No. 1907
(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. E781 in accordance with the terms of the contract.

Signature /S/ George J. Krempsky Title Mining Engr Date 12-3-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Wing G Agnew Title Acting Exec. Date 12-11-56

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.

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 October 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]	[illegible]	[illegible]	[illegible]
Crosscutting	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Raising	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Shafts	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Winzes	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drilling: Core	[illegible]						[illegible]	[illegible]
Churn	[illegible]						[illegible]	[illegible]
Auger	[illegible]						[illegible]	[illegible]
Stripping	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Trenching	[illegible]							
Test Pits								
Roads and Trails	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL DISTRIBUTED COSTS		[illegible]						TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				[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]

By Wilbur F. Brassard 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 J. Krempasky

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

COPY

COMPILATION OF SAMPLES ASSAYED DURING NOVEMBER, 1956

FROM DMEA EXPLORATION DRIFTS

RECEIVED 12 17 1956 D.M.E.A.

The following samples are all from the 400 East Drift:

Date	Sample Number	Description		Width	Assay Ag	Assay Mn
11/1/56	36	91' East of the 400 X-Cut		5.0	1.4	11.5
11/2	410	96' " " " " "		5.5	0.8	12.2
11/3	440	101' " " " " "	Footwall	3.0	1.6	22.5
11/3	450	101' " " " " "	Hanging Wall	3.2	1.8	23.6
	440 & 450	101' " " " " "	Combined Average	6.2	1.7	23.0
11/5	490	104' " " " " "	Footwall	5.2	0.4	15.3
11/5	500	104' " " " " "	Hanging Wall	2.0	0.6	11.8
	490 & 500	104' " " " " "	Combined Average	7.2	10.2	14.3
11/6	540	110' " " " " "		6.2	1.2	14.5
11/7	580	114' " " " " "		7.5	0.2	11.7
11/8	630	119' " " " " "		5.0	0.8	21.2
11/9	670	122' " " " " "		6.9	1.2	21.1
11/10	710	127' " " " " "		6.9	1.2	22.2
11/13	840	133' " " " " "		8.5	0.8	17.0
11/13	890	138' " " " " "		4.9	1.8	17.3
11/14	950	147' " " " " "		6.5	1.2	15.2
11/14	1020	152' " " " " "		5.2	0.8	10.2
11/20	1260	158' " " " " "	Footwall	5.0	1.2	20.8
11/20	1270	158' " " " " "	Hanging Wall	4.0	0.6	8.1
11/20	1260 & 1270	158' " " " " "	Combined Averages	8.8	0.9	15.1
11/21	1170	163' " " " " "		3.0	1.2	12.3
11/23	1200	168' " " " " "		3.0	1.2	12.3
11/24	1220	172' " " " " "		4.5	0.6	17.9
11/26	1230	177' " " " " "		2.2	1.0	20.3
11/27	1290	182' " " " " "		1.7	1.8	7.4
11/28	1310	187' " " " " "		3.8	3.4	8.1
11/30	1350	192' " " " " "		4.0	2.6	10.4
11/30	1370	198' " " " " "		2.6	1.8	6.6

I hereby certify that all of the above numbered samples were among those assayed for the Umont Mining Company during the month of November, 1956.

LEWIS & WALKER
Assayers & Chemists

By: John S. Roach
John S. Roach

NORWICH MINE

Silver Bow County

Montana

DMEA-2874 - Contract Idm-E-604 - Manganese

NARRATIVE REPORT

(Period: 11/1/56 through 11/30/56)

During November, work on the DMEA contract on the Plutus 400 level was confined entirely to the 400 east drift on the Norwich vein. Operations were conducted on a single shift basis. During the month the drift was advanced from a point 91 feet east of the 400 level X-cut to a point 203 feet east of this X-cut, an advance of about 111.5 feet.

This drift has been driven in ore from a point about 60 feet east of the 400 X-cut to a point about 175 feet east of it. Throu hout this distance the ore averages 5.7 feet wide with a grade of 14.5% manganese. This portion of the vein has been much disturbed by strike faulting and past mineral movement which made it difficult to follow.

In the course of this advance approximately 295 long dry tons of ore assaying 12% manganese were extracted. The last 25 feet or so of advance was waste because the vein was either barren or low grade (less than 10%).

During the month, the west drift was advanced on a two-shift basis from a point about 190 feet west of the X-cut to a point 390 feet west of the 400 X-cut for an advance of about 200 feet. For about half of this distance the vein was tight and barren, and for most of the remainder it was narrow and wo weakly mineralized as to be much below ore grade. The last 15 feet of advance encountered a good grade of ore, between three and four feet in width.

No particular difficulties were encountered during the month, and the work progressed smoothly and satisfactorily.

Very truly yours,

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

WFC:k

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

NOV 5 REC'D

Budget Bureau No. 42-R1036.5

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

Month of October, 1956 Docket No. DMEA 2874 Contract No. Icm-E604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address P. O. Box 727, Butte, Montana

Contract Amount, $ 106,010.70 Government Participation: 75 % Amount, $ 79,508.00

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~~ Contracts: Facilities — Install Pump & Equipment						
~~Shaft Form~~ Plutus Shaft		2082.00	2082.00		2082.00	2082.00
~~Drilling~~ Shaft Rehabilitation		3148.00	3148.00		3148.00	3148.00
~~Blasting~~ Enlarging & Rehabilitating 400 Station		1600.00	1600.00		1600.00	1600.00
~~Crosscutting~~ Drifting 400 X-Cut Rehabilitation		4100.00	4100.00		4100.00	4100.00
(2) Labor and Supervision:						
~~Labor~~ Drifting 400 Level	4982.40	3776.00	8758.40	4982.40	3776.00	8758.40
~~Supervision~~ Timbering	1357.00	1180.00	2537.00	1357.00	1180.00	2537.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Spiling	600.00		600.00	600.00	—0—	600.00
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	119.00		119.00	105.00	—0—	105.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Stage I		23,190.70	23,190.70		23190.70	23190.70
TOTALS	7058.40	39,076.70	46,135.10	7044.40	39076.70	46121.10

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

Date Nov. 2, 1956 *Payee UMONT MINING, INC.

Per Wilbur F. Carwick Title Resident Manager

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

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

(Instructions on reverse)

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

$ 5283.30

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

Date 11-9-56 Vou. No. 1892

(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. 6604 in accordance with the terms of the contract.

Signature /S/ George J. Krenzfasky Title Mining Engr Date 11-6-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weissenborn Title Executive Officer Date 11-9-56

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 MR-104A
(April 1952)

Budget Bureau No. 42-R1151.2

NOV 13 1956
D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 6 Docket No. DMEA 2874 Contract No. Idm-E604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address P. O. Box 727, Butte, 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
400 X-Cut Rehabilitation	Foot	4982.40	155.7	8758.40	273.7	32.00	550	32.00
Drilling	Foot	-	-	4100.00	200.0	20.50	240	20.50
Drifting and Timbering	Foot	1357.00	135.7	2537.00	253.7	10.00	550	10.00
Install Pumps		-	-	2082.00	Comp.	2082.00	Job	2082.00
Shaft Rehabilitation		-	-	3148.00	Comp.	3148.00	Job	3148.00
400 Station Enlarging	Cu.Ft.	-	-	1600.00	3200.00	0.50	3200	0.50
Diamond Drill	Ft.						420	5.00
Surface Drill	Ft.						1700	6.00
Extra Timber	Ft.						100	8.00
Spiling	Ft.	600.00	20.0	600.00	20.00	30.00	50	30.00
Trenching								
Test Pits								
Assaying	Sample	119.00	34	119.00	34	3.50	140	3.50
TOTAL DISTRIBUTED COSTS		7058.40		22,944.40				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
Stockpiles, Improvements, etc.				23,190.70				
TOTAL COSTS		7058.40		46,135.10				106,010.70

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

Date Nov. 2, 1956 Operator UMONT MINING, INC.

Per Wilbur F. Cruswell Title Resident Manager

REMARKS:

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

(Instructions on reverse)

(For Government use only)

151 George J. Krempasky
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

NOV 5 REC'D

RECEIVED NOV 13 1956 D.M.E.A.

COMPILATION OF SAMPLES ASSAYED DURING SEPTEMBER, 1956

FROM DMEA EXPLORATION DRIFTS

The following samples are all from the 400 East Drift:

Date	Sample Number	Description	Width	Assay Ag	Assay Mn
9/6		East Wall 400 Level X-Cut	1.0'	1.6	10.9
9/6		" " " " "	6.0'	.80	14.0
9/11	8	8' East of 400 X-Cut	6.8'		14.9
9/12	9	11' East of 400 X-Cut	7.2'		17.8
9/13	10	17' East of 400 X-Cut	6.8'		12.9
9/18	14	18' East of 400 X-Cut	6.5'		13.8
9/18	15	19' East of 400 X-Cut (Back)	5.5'		12.4
9/18	16	18' East of 400 X-Cut	1.5'		16.3

All of the following samples are from the 400 West Drift:

Date	Sample Number	Description	Width	Assay Ag	Assay Mn
9/6		West Wall 400 Level X-Cut	7.0'	.60	13.2
9/14	12	16' West of 400 X-Cut (Back)	4.2'	1.40	11.1
9/18	17	21' West of 400 X-Cut	2.5'	6.80	12.6
9/22	18	53' West of 400 X-Cut	3.6'	0.50	10.5
9/22	19	62' West of 400 X-Cut (Back)	5.2'	0.80	17.10
9/27	67	67' West of 400 X-Cut	5.6'	1.80	18.90
9/28	22	79' West of 400 X-Cut	2.7'		9.0
10/1	85W	85' West of 400 X-Cut	3.0'		6.5

I hereby certify that all of the above numbered samples were among those assayed for the Uhant Mining Company during the month of September, 1956.

LEWIS & WALKER
Assayers & Chemists

By: John H. Keogh
J. H. Keogh

COPY

D.W.E.A.
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OCT 13 1986

NOV 5 1956

COPY

COMPILATION OF SAMPLES ASSAYED DURING OCTOBER, 1956

FROM DMBA EXPLORATION DRIFTS

The following samples are all from the 400 East Drift:

Date	Sample Number	Description	Width	Assay Ag	Assay Mn
10/8	DPW-2	61' East of 400 X-Cut	4.3'	0.20	12.50
10/8	DPW-3	69' East of 400 X-Cut	2.3'	0.40	13.70
	71E	71' East of 400 X-Cut	4.0'	0.40	5.40
	74E	74' East of 400 X-Cut	5.0'	0.60	7.70
10/16	5	82' East of 400 X-Cut (Full face)	8.4'	0.60	13.50
10/16	6	" " " " (Partial face)	3.2'	0.80	20.80
10/25	31	88' East of 400 X-Cut	7.6'	0.30	16.10

The following samples are all from the 400 West Drift:

10/16	4	113' West of 400 X-Cut	4.3'	0.40	7.30
10/17	7	125' West of 400 X-Cut	6.3'	1.40	10.10
10/17/	12	130' West of 400 X-Cut	9.0'	2.00	11.20
10/18	13	136' West of 400 X-Cut	6.8'	0.20	4.80
10/18	15	140' West of 400 X-Cut	9.6'	0.60	8.10
10/18	18	144' West of 400 X-Cut	7.2'	0.20	7.00
10/23	19	150' West of 400 X-Cut	7.5'	0.60	4.50
10/23	23	160' West of 400 X-Cut	7.6'	0.60	14.00
10/23	27	167' West of 400 X-Cut	3.8'	0.20	13.30
10/24	28	174' West of 400 X-Cut	9.6'	0.40	6.10
10/25	29	180' West of 400 X-Cut	9.0	0.10	3.50

I hereby certify that all of the above numbered samples were among those assayed for Uranex Mining Company during the month of October, 1956.

LEWIS & WALLER
Assayers & Chemists

By: J. L. Beach
J. L. Beach

Norwich Mine
Silver Bow County
Montana

DMEA-2874-Contract Idm-E-604 (Manganese)

NARRATIVE REPORT

(Period: 10/1/56 through 10/31/56)

COPY

During October progress on the DMEA work on the Plutus 400 level lagged, as did other work in the mine because all underground operations were suspended from October 25th through October 30th due to the necessity of repairs to the hoist and compressor. Also, we lacked sufficient drift miners to operate two shifts from October 19th through the 23rd when a new crew was secured. During this period operations were pushed in the West Drift which advanced steadily, although much of the advance was beyond the 150 feet limit west of the 400 crosscut, and therefore not covered by the contract. Progress in the East Drift suffered and as a result the total amount of drifting done under the contract was considerably less than would normally have been completed.

At the end of the month the West Drift had been advanced to a point 190 feet west of the 400 crosscut, of which 179 feet had been timbered. In the east drift a timbered advance of 83 feet was achieved. On the advice of the Umont geologist, 35 or 40 feet of this was driven to the northeast beyond the fault which displaced the vein and which was mentioned in the narrative for September. When the structure had not been found as anticipated a long hole to the south was drilled, using section steel, at a point just east of the fault. This prospecting revealed the displaced portion of the vein at a distance of 16 feet. A crosscut was started at this point, advanced to the vein, and drifting along it continued. The east drift had been advanced to a point 91 feet east of the 400 crosscut by the end of the month.

The west drift has been following a strong fault structure striking about north 77 degrees west with an average dip to the south of about 58 degrees. This fault structure, characterized by a distinctly "purplish" clay, is, in the upper levels one of the major control features of ore deposition. At least it is usually associated and identified with the ore shoots in the 300 level and above.

On strike and dip the "Purple Fault" shear should lead Umont into the downward projection of the 300 level ore shoots.

In the west drift, from a point about 120 feet west of the crosscut to a point about 180 feet west of the crosscut, several distinct and roughly parallel shears (all striking about north 80 degrees east and dipping south about 60 degrees) together with many small, rather persistent rhodochrosite-quartz stringers have been observed in the drift. The shears and stringers are cut off by the purple clay and pass out into the walls on the south side.

NOV 5 1937

In the course of drifting along the purple clay, several discontinuous but pleasingly rich "plumlike masses" of ore have been revealed. However, I do not consider that any commercial manganese ore was developed by the west drift in October.

In the east heading the drifting on the vein exposes a broken, brecciated, stringered mass of rhodochrosite, altered aplite, quartz and sparing sulfides, which when mined in the drift have been averaging in the neighborhood of 10% manganese and less than one ounce silver.

By October 31st the vein had been drifted on to a point 91 feet east of the 400 foot crosscut.

At a zone 81-86 feet east of the drift origin, a vein five feet wide, striking about north 75 degrees west and dipping south about 60 degrees has been revealed. Assays are not available.

I do not consider that the drifting east during the month blocked out any commercial ore, although I do feel the showing is impressive.

Very truly yours,

Wilbur F. Criswell

Wilbur F. Criswell
Resident Manager

WFC:k

COPY

DMEA Field Team, Region I, NW District November 9, 1956

DMEA Certifying Officer, Region I

Docket No. DMEA 2674, Contract No. IAm-2204. Mount Mining, Inc.
Monthly operating report for October 1956.

The contract calls for approximately 130 feet of westerly drifting along the Norwich vein. Therefore, the cost of assaying 4 samples taken from the 400 West Drift beyond the 130 foot point has been disallowed.

Myrtle Purdy

cc: Operator
DMEA (2)
USGS (2)
Wash. (2)
AD
GTK

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED OCT 22 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September 1956 Docket No. DMEA 2074 Contract No. Idm-5601

Operator's Name Mont Minin, Inc. Minerals Manganese

Address P. O. Box 727, Butte, Montana

Contract Amount, $ 106,010.70 Government Participation: 75 % Amount, $ 79,508.00

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 Contractor Short Form						
Install Pump Facilities & Equip Plutus Shaft		2082.00	2082.00		2082.00	2082.00
Shaft Rehabilitation		3148.00	3148.00		3148.00	3148.00
Enlarge & Rehabilitate 400 Station		1600.00	1600.00		1600.00	1600.00
Drifting: 400 X-Cut Rehabilitation	922.50	3177.50	4100.00	922.50	3177.50	4100.00
(2) Labor and Supervision: Drifting - 400 Level Labor	3776.00	None	3776.00	3776.00	-0-	3776.00
Supervision: Timbering	1180.00	None	1180.00	1180.00	-0-	1180.00
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	77.00	None	77.00	-0-	-0-	-0-
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Stage I					23190.70	23190.70
TOTALS	5955.50	10,007.50	15,963.00	5878.50	33198.20	39076.70

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

Date 10/1/56 *Payee MONT MINING, INC.

Per G. J. Cruswell Title Resident Manager

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

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

(Instructions on reverse)

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

4408 88

$ 4408 88

Signature MLP
(Authorized Certifying Officer)

Date 10/15/56 Vou. No. 1890
(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. E604 in accordance with the terms of the contract.

Signature /S/ George J. Kremjasky Title Mining Eng. Date 10/10/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weissenborn Title Executive Officer Date 10/15/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
OCT 22 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1956 Docket No. DMEA 2874 Contract No. Idm-E604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address P. O. Box 727, Butte, 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	Foot	3776.00	118.0	3776.00	118.0	32.00	550 OK	32.00
400 Rehabilitation	Foot	922.50	45.00	4100.00	200 OK	20.50	210	20.50
Drift Timbering	Foot	1180.00	118.0	1180.00	118	10.00	550 OK	10.00
Install Pumps & Facilities		-	-	2082.00	Comp.	2082.00	Job	2082.00
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400 Station	Cu.Ft.	-	-	1600.00	3200	.50	3200	.50
Diamond Drilling	Foot						420	5.00
Surface Drilling	Foot						1700	6.00
Extra Timber	Foot						100	8.00
Spiling	Foot						50	30.00
Test Pits								
Roads and Trails								
Assaying	Sample	77.00	22.0	77.00	22.0	77.00	140	3.50
TOTAL DISTRIBUTED COSTS		5955.50		15,963.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc. Stage I				23190.70				
TOTAL COSTS		5955.50		~~15,963.00~~ 39076.70				106,010.70

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

REMARKS:

Date Oct. 1, 1956 Operator UMONT MINING, INC.

Per W. F. Criswell Title Resident Manager

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

(Instructions on reverse)

(For Government use only)

151 George 2 Krempasky

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

Norwich Mine
Silver Bow County
Montana

DMEA-287b-Contract Ida-E-604 (Manganese)

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OCT 22 1956

NARRATIVE REPORT

(Period: 9/1/56 thru 9/30/56)

COPY

By September 10, 1956, the north crosscut on the Plutus 400 foot level had been advanced to a point about 250 feet northerly from the Plutus shaft, at which point the extreme footwall of the Norwich vein structure was completely exposed. Resampling of the vein checked the results previously reported.

September 11th, after the crosscut rehabilitation had been completed, drifts east and west were started at a point 218 feet northward from the Plutus shaft. In excavating for the turns from the crosscut about 113 long dry tons of ore were obtained. This material, which was shipped, assayed 14.4% Mn and very low silver.

The east drift was advanced 22 feet from the crosscut on the vein, and at that point a strong fault striking North 10° East and dipping east about 85° cut the vein off completely. The drift has been extended through the fault, a left turn has been made on the east side of the fault and it is hoped that the faulted extension of the vein will be encountered soon.

The decision to turn left was prompted by the following factors: (1) Most of the north-south faults in the Norwich are normal in throw; (2) Cross-faulting observed in the footwall vein, and the Norwich vein itself on this level are normal in characteristics, and although the present trouble makes cannot be correlated with any previously known fault, the assumption first must be made that the action is normal; (3) Mullion structures on the fault plane itself suggests that the hanging (east) wall of the fault is downthrown.

The west drift was advanced 87 feet where it encountered the old timbered workings. The drifting west exposed a strong, continuous vein from four to six feet wide, consisting principally of quartz with a manganese content varying between 8% and 19% with about one to two ounces of silver.

Four small north-south faults offset the vein to the left from two to six feet making it difficult to keep the drift on the vein. However, the vein appears to be turning to its normal strike and dip and it is hoped that no serious faulting problems will be encountered as the drift is continued west beyond the old crosscut.

Since September 3rd underground operations have been prosecuted on a two-shift basis using one crew of drift miners on each shift. No unusual difficulties were encountered and the progress is considered satisfactory.

Yours very truly,

W. F. Criswell
Resident Manager

WFC:k

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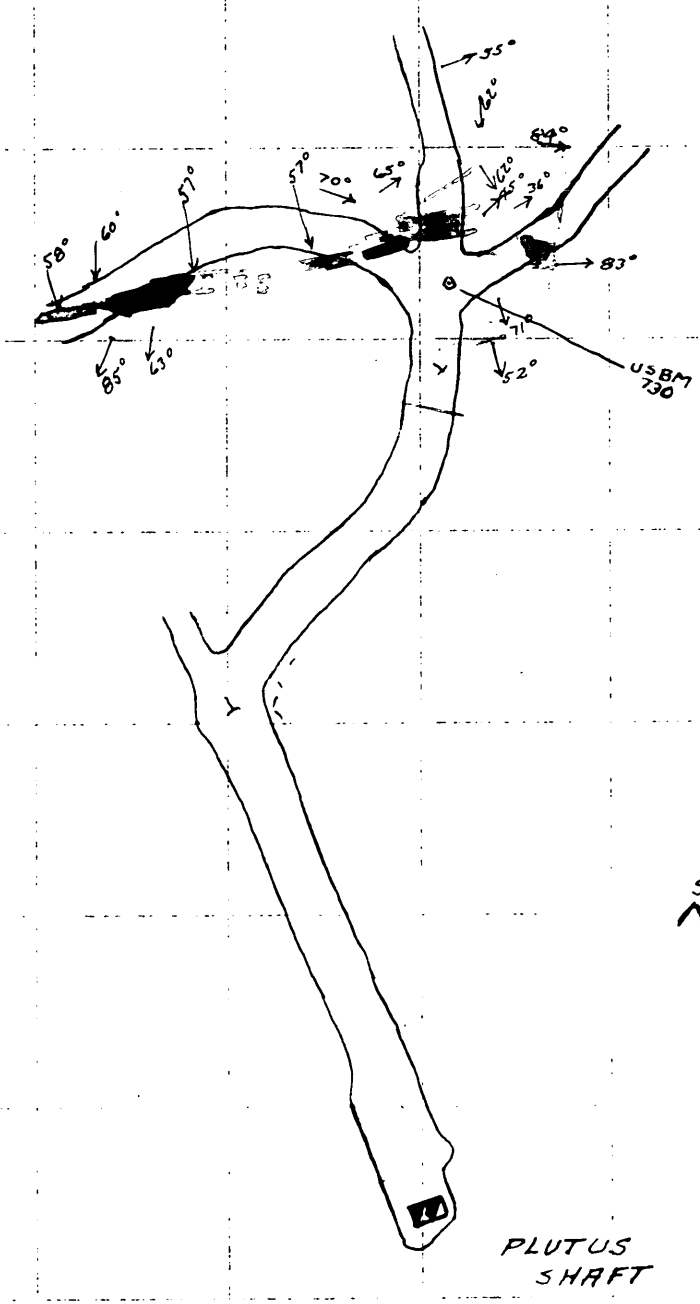
OCT 22 1956



SKETCH MAP OF THE
NORWICH MINE
400 Ft. LEVEL
D.M.E.A. I.D.M. E604

1" = 40'
VEINS – RED
FAULTS – BLUE

GEOLOGY SKETCHED
FOR WORK COMPLETED
IN SEPTEMBER
1956

RECEIVED

OCT 22 1956

DMEA Field Team, Region I, NW District

October 17, 1956

Certifying Officer, Region I

Docket No. DMEA 2874, Contract Ida-2604, Uncom Mining, Inc.
Monthly operating report for September 1956.

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

The operator claimed costs of $77.00 for Sampling and Analysis, but no assay results were received with the report. Therefore, it was necessary to suspend payment of this cost. The amount suspended may be reclaimed by the Operator if the proper support is attached.

Myrtle Purdy

cc: Operator
DMEA (2)
USGS (2)
Wash. 2
JBB
AD

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED OCT 22 1956

SEP 20 REC'D W

SEP 20 REC'D

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1956 Docket No. DMEA 2874 Contract No. Idm-E604
Operator's Name Umont Mining, Inc. Minerals Manganese
Address 43 Hirbour Bldg. (Box 727) Butte, Mont.
Contract Amount, $ 106,010.70 Government Participation: 75 % Amount, $ 79,508.00

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
Stage II						
(1) ~~Equipment~~ Facil. & Contracts: Install Pump Equipment						
~~Short Form~~						
~~Drilling~~ xxxxx Plutus Shaft		2,082.00	2,082.00		2082.00	2082.00
~~xxxxxxx~~ Shaft Rehab.		3,148.00	3,148.00		3148.00	3148.00
Rehab. & Enlarging						
~~xxxxxxx~~						
~~Drilling~~ xxxxx 400 Sta.		1,600.00	1,600.00		1600.00	1600.00
Crosscut Rehab.	943.00	2,234.50	3,177.50	943.00	2234.50	3177.50
(2) ~~Labor and Supervision:~~						
~~xxxx~~ Drilling	None	None	None			
~~Labor~~ xxxxxxx Mgr. Tim.	"	"	"			
~~Supervision~~ xxxxxxx of Dr.	"	"	"			
~~Technical Services~~ xxxxxxxxxx Ex. Sate.						
(3) ~~Operating Materials and Supplies:~~	"	"	"			
~~xxxxx~~ Spiling Dr.	"	"	"			
~~Explosives~~ xxxxxxx Dia. Drilling						
~~xxx~~ (Underground)	"	"	"			
~~xxxx~~ Dia. Drilling (Surface)						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	None	None	None			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Stage I					23190.70	23190.70
TOTALS	$943.00	$9,064.50	$10,007.50	943.00	32255.20	33198.20

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 9/7/56 *Payee Umont Mining, Inc.
Per Gilbert T. Lenssen Title Res. Mgr.

*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:

$ 707.25

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

Date 10/15/56 Vou. No. 1890
(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. E604 in accordance with the terms of the contract.

Signature /S/ John A. Bausher Title Mining Engr. Date 9/27/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Wessinborn Title Exec. Officer Date 10/10/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED SEP 20 REC'D OCT 22 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1956 Docket No. DMEA 2874 Contract No. Idm-5604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address 43 Hirbour Bldg. (Box 727) Butte, Mont.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Comp.	AUTHORIZED BY CONTRACT Unit Costs
Stage II					Complete			
Install Facil.-Pump	-	None	None	2,082.00	Job	2,082.00	Job	2,082.00
Plutus Shaft		"	"	3,148.00	"	3,148.00	"	3,148.00
Shaft Rehab.-		"	"	1,600.00	3200'	0.50	3200'	0.50
Sta. Rehab. Cu/ft		943.00	46.0'	3,177.50	155'	20.50	240'	20.50
Crosscut "	Foot							
Winzes								
Drilling: Core Underground	"	None	None	None	None	-	420'	5.00
Core Surface	"	"	"	"	"	-	1700'	6.00
Drifting	"	"	"	"	"	-	550'	32.00
Nor. Timb. of Dr.	"	"	"	"	"	-	550'	10.00
Ex. Sects. Tim.	"	"	"	"	"	-	100	8.00
Spiling Drft.	"	"	"	"	"	-	50	30.00
Roads and Trails								
Assaying	One Sample	"	"	"	"	-	140.	3.50
TOTAL DISTRIBUTED COSTS		$943.00	-	$10,007.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Stage I				23,196.70				
TOTAL COSTS		$943.00	-	~~$10,007.50~~ 33,198.20				$106,010.70

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

Date 9/7/56 Operator Umont Mining, Inc.

Per Milburn F. Chenowell Title Res. Mgr.

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

REMARKS:

(Instructions on reverse)

(For Government use only)

/s/ John A 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

Plutus Mine
Silver Bow County
Montana
DMEA-2874-Contract--Idm-E-604 (Manganese)

SEP 20 REC'D

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OCT 22 1956

NARRATIVE REPORT

(Period: 8-1-56 thru 8-31-56)

C O P Y

During August, 1956, the 400 foot level crosscut North was rehabilitated and enlarged to a point 205 feet northerly from the Plutus shaft. Advance for August amounted to 46 feet enlarged and timbered, with ventilation, tract and air and water lines installed.

Advance was in sheared and sheeted aplite which required close lagging to hold in place. A few insignificant mineralized stringers were revealed in the enlarging operations.

At theclose of the month the southernmost edge, hanging wall side, of the main Norwich vein was exposed. The ground is very soft; the vein is making considerable water along the hanging wall clay and much cribbing was required over the sets at the vein.

We were able to prosecute the work covered by the DMEA contract only about seven days during the month of August. All underground operations were suspended from the 6th through the 10th while the change-over from the old to the new hoist was being made. At this time the change from the small wooden gallows frame to the new steel one was also accomplished.

Once the larger hoist had been placed in service we were able to put the new larger cars in use. These are 24-inch gauge. The week of the 13th through the 18th was spent changing the gauge of the track previously installed from 18 inches to 24 inches.

All underground operations were again halted August 20th when the hoist motor failed. They were resumed August 25th. The intervening time was required to locate and install a substitute hoist motor.

The job of changing track gauge was completed August 28th and the rehabilitation of the 400 level crosscut continued the remainder of the month.

Yours truly,

Colbert F. Criswell

W. F. Criswell, Res. Mgr.

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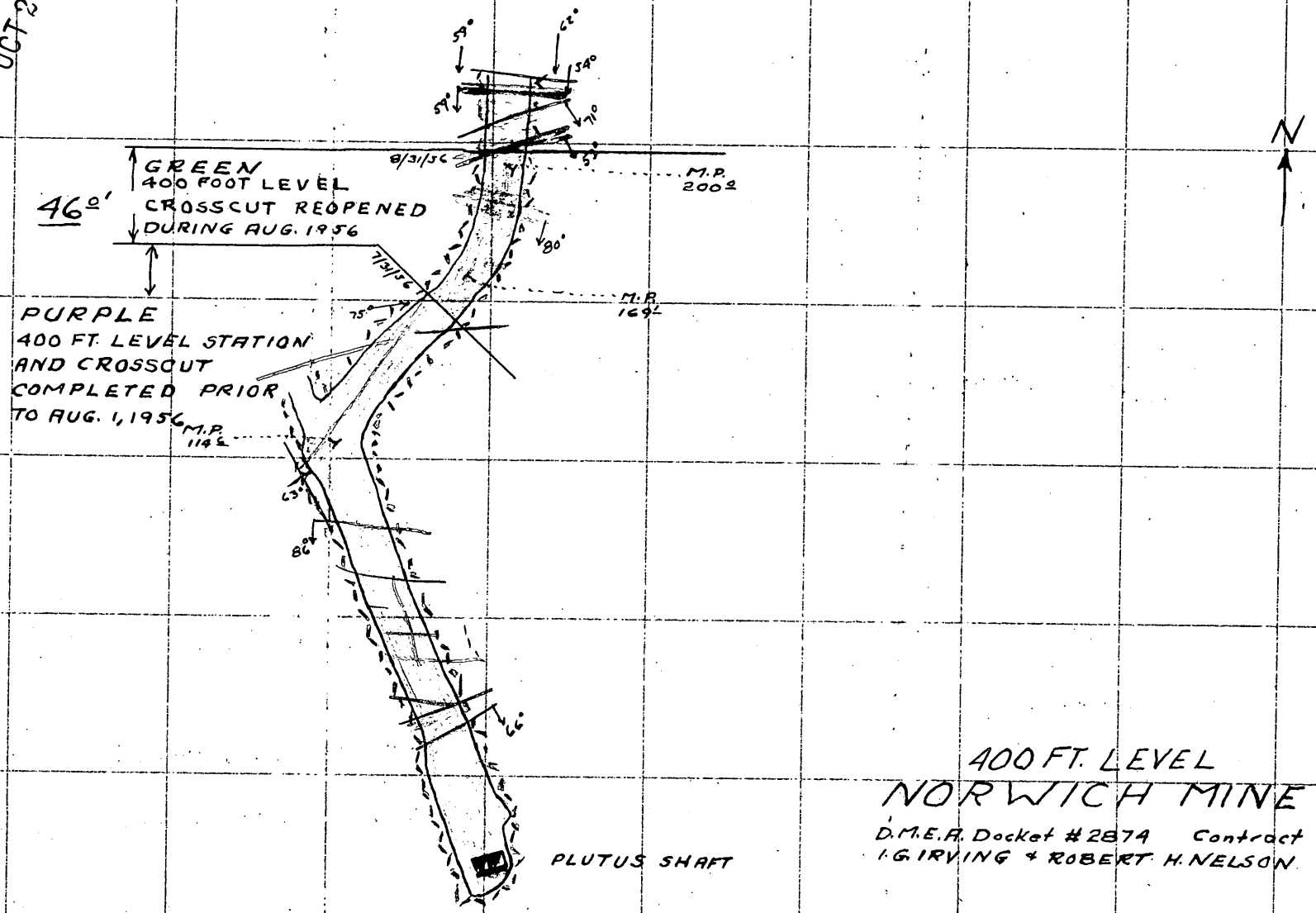
OCT 22 1956



400 FT. LEVEL
NORWICH MINE
1" = 40'
D.M.E.A. Docket #2874 Contract IDM-E-604
I.G. IRVING & ROBERT H. NELSON

Form MF-10 (Rev.) (April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED OCT 22 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

For period

Month of 4/16/56—7/31/56 195 Docket No. DMEA 2074 Contract No. 16m-2604

Operator's Name Umont Mining, Inc. Minerals Manganese

Address Box 727, Butte, Montana (43 Hirbour Bldg)

Contract Amount, $106,010.70 Government Participation: 75 % Amount, $79,508.00

Item	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY (WSM): Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
Stage II						
(1) Equipment Short Form Contracts: Drilling: Install fan-filter, compressor, equip. Flat. sh.	2082.00	none	2082.00	2082.00	—o—	2082.00
Drilling: Sh. rehab.	3148.00	none	3148.00	3148.00	—o—	3148.00
Drilling: Flat. rehab. (& enlarg.)	1600.00	none	1600.00	1600.00	—o—	1600.00
(2) Labor and Supervision: Labor: Crosscut rehab.	2234.50	none	2234.50	2234.50	—o—	2234.50
Supervision						
Technical Services						
(3) Operating Expenses: Drifting	none	none	none			
Explosives: Nor. Tim. Dr	"	"	"			
Explosives: Sets Drift	"	"	"			
Explosives: Spiling	"	"	"			
Diamond drilling underground	"	"	"			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	none	none	none			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify): Stage I					23190.70	23190.70
TOTALS	$9064.50	———	$9064.50	9064.50	23190.70	32255.20

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

Date 8/14/56 *Payee Umont Mining, Inc.

Per Gilbert T. Brunsvold Title Res. Mgr.

*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:

$ 6798.38

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

Date 10/15/56 Vou. No. 1890

(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 6044 in accordance with the terms of the contract.

Signature /S/ John A. Bawsher Title Mining Engineer Date 8/23/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Wessenborn Title Executive Officer Date 10/15/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

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OCT 22 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month for period 3/16/56 thru 9/31/56 Docket No. DMEA 274 Contract No. DMe-R604

Operator's Name Dmont Mining, Inc. Minerals Manganese

Address Box 727, Butte, Montana (43 Arbour Bldg)

Stage II 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
Instal. facilit. &	-	2082.00	compl. job	2082.00	compl. job	2082.00	compl. job	2082.00
~~xxxxxxxxxx~~ Plut. sh.	-	3148.00	"	3148.00	"	3148.00	"	3148.00
~~xxxxxxxxxx~~ sh. rehab.	-	1600.00	3200	1600.00	3200	0.50	3200	0.50
~~xxxxx~~ Station "	cu/ft.	2234.70	109'	2234.70	109'	20.50	240'	20.50
~~xxx~~ ft. crosscut "	ft.	none	none	none	none	---	420'	5.00
Winzes								
Drilling: Co~~xxxxx~~ underc.	ft.	none	none	none	none	---	550'	32.00
Churn								
Auger								
~~xxxxxxxxxx~~ Drifting	ft.	none	none	none	none	---	550'	10.00
~~xxxxxxxxxx~~ Timbering for. Tim. "	"	"	"	"	"	---	100'	8.00
~~xxxxxxxxxx~~ Ex. sets "	"	"	"	"	"	---	50'	30.00
~~xxxxxxxxxx~~ Rail spiking	"	"	"	"	"	---	140	3.50
Assaying ore sam.								
Total Distributed Costs		9064.50	---	9064.50				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc. Stage 1				23190.70				
Total Costs		9064.50	---	~~9064.50~~ 32255.20				$ 105,010.70

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

Date 8/14/56 Operator Dmont Mining, Inc.

Gilbert T. Emsiwell Title Gen. Mgr.

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. Bawsher

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

Plutus Mine
Silver Bow County,
Montana
DMEA-2874--Contract--Idm-E604 (manganese)

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NARRATIVE REPORT
(period--4-16-56 thru 7-31-56)

On April 16, 1956 work commenced on the project to make the 400 level off the Plutus shaft accessible for examination and exploratory work under the captioned contract.

Pumping was conducted on a 24-hour cycle without any appreciable lowering of the water level. To augment the permanent pumping facilities, a temporary installation was made consisting of two Jaeger sinking pumps, in tandem,--each 10 hp--discharging into a temporary sump. Two 40-hp Ingersoll Rand motor pumps than raised the water from the sump, 320' to the surface. The combined temporary units, discharged about 450 g.p.m. and the water level was lowered.

The unwatered workings were very unsafe. The workings were disappointingly small (4' x 6'). Timber was broken, water was dammed behind caves and a candle would not burn fifty feet from the shaft.

Temporary ventilating equipment was installed, some caves were cleaned up and the Main Norwich Footwall Vein became accessible for inspection and sampling on May 22, 1956.

The vein is a strong, formal structure, about 20' wide, all containing rhodochrosite. The footwall 5.5' (average of both sides) assayed 20.9% Mn and 1.3 oz. Ag.

During the following period the shaft was completely rehabilitated and repaired to a point 408' below the collar, a permanent 6" water column was established, a 40 h.p. pump was placed in service on the 400 level, electronically controlled, and a 35-h.p. submersible pump (also electronically controlled) is held for emergency purposes. A 15 h.p. fan delivers air from the 244 level of the Plutus shaft to the 400 level, and all electric installations, as contemplated in the application have been completed.

The 400 station has been repaired and enlarged and rehabilitation of the 400 level has progressed to a point 159' northerly from the station. To summarize:

a. Facilities and pumping equipment have been installed in the Plutus shaft, at the 400 level at a cost substantially greater than $2,082.00. (See attached sheet of actual costs)
b. The Plutus shaft has been completely rehabilitated to a point 408' below the collar, and service facilities installed on the 400 level, at a cost substantially greater than $3,148.00. (See attached sheet of actual costs)
c. The 400 station has been enlarged, at a cost substantially greater than $1,600.00, and 109' of crosscut rehabilitation and enlarging (including 20' of spiling) has been completed at a cost in excess of $20.50 a foot. (See attached sheet of actual costs)

Respectfully submitted,

Wilbur F. Criswell

Wilbur F. Criswell, Res. Mgr.

Plutus Mine
Silver Bow Co., Montana
DMEA-2874--Contract Idm-E604 (manganese)

Actual Cost Report No. 1
(to accompany Report for period
4/16/56 thru 7/31/56)

COPY

Stage II

Install facilities and pumping equipment in Plutus Shaft to 300 level---

Actual cost----$10,501.62

Rehabilitate Plutus shaft from 300 to 410 level, and install equipment---

Actual cost--- $ 7,217.87

Rehabilitate and enlarge 400 station---

Actual cost--- $ 2,378.44

Rehabilitate 109'' of crosscut to Norwich Vein (131' left to do)

Actual cost--- $ 3,893.99

Total Actual cost of work done-----$23,991.92
Cost allowed under Contract Idm-604 9,064.50
Difference $14,927.42

Wilbur F. Criswell
Wilbur Criswell, Res. Mgr.
Umont Mining, Inc.

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

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

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

Bu. Vou. No. 1725

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

Voucher prepared at Spokane 3/6/56
(Give place and date)

RECEIVED
MAR 12 1956

THE UNITED STATES, Dr., Payee's Account No. Idm-E604

To Irving G. Irving and Robert H. Nelson
(Payee)

43 Hirbour Building (Address) Butte, Montana (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.
	December 1955	Amount withheld from final MF-104 when payment was made under Voucher No. 1717 February 21, 1956.				500	.00
		FINAL PAYMENT					
PAYMENT: Complete ☐ Partial ☐ Final ☐		Use continuation sheet(s) if necessary					

Shipped from to Weight Government B/L No. Total 500.00

(Payee must NOT use this space)

Differences .....

Account verified; correct for 500.00

(Signature or initials) M.P.

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

MEMORANDUM

ACCOUNTING CLASSIFICATION (For completion by Administrative Office)

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

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

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

16—22900a-2

METHOD OF OR ABSENCE OF ADVERTISING

METHOD OF ADVERTISING

1. Advertising in newspapers Yes ☐ No ☐.
2. (*a*) Advertising by circular letters sent to ..... dealers.
   (*b*) And by notices posted in public places Yes ☐ No ☐.

   (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made below.)

ABSENCE OF ADVERTISING

3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with .....
5. Without advertising, it being impracticable to secure competition because of .....

.....

.....

.....

.....

(Here state in detail the nature of the exigency or circumstances under which the securing of competition was impracticable under 3 and 4)

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal, and acceptance, or less formal agreement) Standard Form No. 1036—Revised should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, as amended.)

☆ U. S. GOVERNMENT PRINTING OFFICE : 1950 O—75805

16—22000a-2

W

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
MAR 12 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1955 Docket No. DMEA 2874 Contract No. Idm-E604
Operator's Name Irving G. Irving & Robert H. Nelson, Minerals Manganese
Address 43 Hirbour Bldg. Butte, Montana
Contract Amount, $25,830.00 Government Participation: 75% Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY (WSM): Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~xxxxxx~~ Short Form Contracts: Shaft Rpr.	none	$1277.50	$1277.50		1277.50	1277.50
~~xxxx~~ Stat. cutt.	"	1106.70	1106.70		1106.70	1106.70
~~xxxxx~~ Raising	"	2520.00	2520.00		2520.00	2520.00
Bulldozing						
Crosscutting						
Drifting	$2230.40	13647.60	15878.00	2230.40	13647.60	15878.00
Timbered drift	340.00	1934.50	2274.50	340.00	1934.50	2274.50
(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	6.00	128.00	134.00	6.00	128.00	134.00
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$ 2576.40	$20614.30	$23190.70	2576.40	20614.30	23190.70

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 1/21/56 *Payee Irving G. Irving and Robert H. Nelson, Partners
Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

1 cy MF 104a and narrative to Washington 1/31/56

1932.30
withheld 500.00
1432.30

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

$ 1432 30

Signature [illegible]
(Authorized Certifying Officer)

Date 2/6/56 Vou. No. 1717
(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. E6-04 in accordance with the terms of the contract.

Signature /S/ John A. Bowsher Title Mining Eng Date 1/27/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Wing G. Agnew Title Acting Exec. Officer Date 2/21/56

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.

IF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

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FEB - 6 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1955 Docket No. DMEA 2874 Contract No. Idm-2604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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.	$2230.40	65.6	$15878.00	467.0	$34.00	470	$34.00
Timb. Dr.	"	340.00	68.0	2274.50	454.9	5.00	470	5.00
Raising	"	none	none	2520.00	72.0	35.00	80	35.00
Shaft Repair	"	"	"	1277.50	36.5	35.00	56	35.00
Stat. cutt.	cu/ft	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Sampling & assay	one samp.	6.00	3	134.00	67	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$2576.40	--	$23190.70				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$2576.40	--	$23190.70				$25830.00

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.

1/21/56 Irving G. Irving and Robt. H. Nelson, Partners

Date Operator

Per Irving G. Irving Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

Final payment being held up for final inspection, audit, etc.

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

BRIEF NARRATIVE REPORT
on the
Plutus Mine, Silver Bow Co., Montana
(Exploration Project -DMEA #2874, Contract Idm-E604)
(Irving G. Irving & Robert H. Nelson)
for
December, 1955

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FEB - 6 1956

The work allotted, under the captioned contract, on the so-called 275 level has been completed. The drift east was advanced 65.6 feet to a total of 183.6' from the station. Originally, 200 feet of drifting in an easterly direction was allowed, but this was to be done on the 200 level. Only 16.4' was done at this latter elevation, and the DMEA officials approved the transfer of the balance (183.6') to the 275 level below.

Out of a total of 470 feet of drifting allowed under the contract, 467' hasbeen done. In addition to this the following was completed:

454.9' of timbered drift
72.0' of raising
36.5' of shaft repair
892.5 cu. ft. of station cutting
And 67 samples were taken.

The drifting this month revealed only waste. As shown on the accompanying sketch, the vein has evidently been pulled apart by a northeast-striking fault structure.

If the sketch be examined in detail it will be seen that an ore shoot, beginning at about 48' from the station and extending 40 to 50 feet to the east was disclosed by this work. Whether or not this shoot extends, as commercial ore to a somewhat comparable showing on the 200 level above, remains to be seen. Stoping of this ore is to begin immediately and all of it that can be mined, or considered commercial ore, will be taken out.

In a few weeks a final report on the outcome and findings of the project will be written. In this report the ore found and shipped will be summarized, and any ore blocks that may be justifiably and properly called ore will be designated. As stated above, all of the ore found by the entire work will be mined immediately so that the entire project may be examined, reviewed and made subject of a final report by the government engineers in the not too distant future.

Respectfully submitted,

I. G. Irving

I. G. Irving, Mgr.

Form MF-124 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
DEC 12 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1955 Docket No. DMEA 2874 Contract No. Idm-E604
Operator's Name Irving G. Irving & Robt. H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY W&M: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Contracts: ~~Short Form~~ Shaft Rpr.	none	$1277.50	$1277.50		1277.50	1277.50
~~Drilling~~ Stat. Cutt.	"	1106.70	1106.70		1106.70	1106.70
~~Bulldozing~~ Raising	"	2520.00	2520.00		2520.00	2520.00
~~Crosscutting~~						
Drifting	$374.00	$13273.60	$13647.60	374.00	13273.60	13647.60
Timbered Drift	45.00	1889.50	1934.50	45.00	1889.50	1934.50
(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	none	$128.00	128.00		128.00	128.00
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$419.00	$20195.30	$20614.30	419.00	20195.30	20614.30

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 11/30/55 *Payee Irving G. Irving and Robert H. Nelson, Partners.
Per Irving G. Irving Title Partner.

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

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

(Instructions on reverse)

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

$ 314.25

Signature Myrtle I Purdy
(Authorized Certifying Officer)

Date 12-6-55 Vou. No. 1661
(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. E604 in accordance with the terms of the contract.

Signature John A. Bowsher Title Mining Eng Date 11-30-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Stephen W. Goldich Title Mining Engr Date 12-5-55

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

RECEIVED
DEC 12 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1955 Docket No. DMEA 2874 Contract No. Idm-E604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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.	$374.00	11.0'	$13647.60	401.4'	34.00	470'	$34.00
~~Crosscutting~~ Timb. Dr.	"	45.00	9.0'	1934.50	386.9'	5.00	470'	5.00
Raising	"	none	none	2520.00	72.0'	35.00	80'	35.00
~~Winze~~ Shaft Repair	"	"	"	1277.50	36.5'	35.00	56'	35.00
~~Winze~~ Stat. cuttin/cu/ft	"	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Sampling&Assays	one assay	none	none	128.00	64	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$419.00	---	$20614.30				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$419.00	--	$20614.30				$25,830.00

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

Date 11/30/55 Operator Irving G. Irving and Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

1st 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

RECEIVED
DEC 12 1955

BRIEF NARRATIVE REPORT

on the

Plutus Mine, Silver Bow County, Montana
(Exploration Project No. 2874; Contract-Idm-E604)
(Irving G. Irving & Robert H. Nelson)
for
November, 1955

After a lapse of almost three months, the work on the subject contract got under way again.

The men who had been doing this work were busy, during the period, on shaft rehabilitation, preparatory to eventually reopening the bottom level (old Plutus 400 level) of the property and other exploration work in the hangingwall of the Norwich Vein. Both jobs were done at the operator's own expense and we feel that this work --from everyone's viewpoint--was of a constructive nature and has contributed toward the development of the property.

The advance in November was meagre, owing to the fact that work was resumed late in the month and only a few shifts were applied.

There remains 65.6' of drifting to be done on this level, in accordance with the contract, and with good luck the greater part of this allotment (at least fifty feet) should be completed by the end of December. In this connection, we are not set up for night shift work and the progress on the DMEA contract will to some extent depend on the ability to give the men on that job the cage to move rock, without unduly holding up production which we have to confess is the more important aspect of our operation, with a property payment to complete and a government loan to pay off.

Appropos the above, it may be stated that the original government advance on production (from the GSA) of over one hundred and seven ($107,000.00) dollars has now been reduced to a figure below sixty thousand, and the operators will, on present production schedules, complete payment on the Norwich property by June 30, 1956.

Respectfully submitted,

I. G. Irving

I. G. Irving, Mgr.

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 SEP 19 1955

Month of August, 1955 Docket No. DMEA 2874 Contract No. Idm-E-604

Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese

Address 43 Hirbour Bldg. Butte, Montana

Contract Amount, 25,830.00 Government Participation 75 % Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY (WSM): Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
Shaft Rpr.	none	1277.50	1277.50		1277.50	1277.50
Contracts: Short Form Stat. Cutt.	"	1106.70	1106.70		1106.70	1106.70
Drilling Raising	"	2520.00	2520.00		2520.00	2520.00
Crosscutting						
Drifting	1394.00	11879.60	13273.60	1394.00	11879.60	13273.60
Timbered Drift	220.00	1669.50	1889.50	220.00	1669.50	1889.50
(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	4.00	124.00	128.00	4.00	124.00	128.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1618.00	18577.30	20195.30	1618.00	18577.30	20195.30

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

Date 9/3/55 *Payee Irving G. Irving and Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 1213 50

Signature MJP
(Authorized Certifying Officer)

Date 9-16-55 Vou. No. 1606
(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. E604 in accordance with the terms of the contract.

Signature /S/ Elton C. Pattee Title Mining Eng Date 9-6-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E. Howard Title Mining Eng Date 9-9-55

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.

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

RECEIVED
SEP 19 1955

Month of August 1955 Docket No. DMEA 2874 Contract No. Idm-T-604
Operator's Name Irving G. Irving & Robert H. Nelson, Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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.	$1394.00	41'	$13273.60	390.4'	$34.00	470'	$34.00
~~Crosscutting~~ Timb. Dr.	"	220.00	44'	1889.50	377.9'	5.00	470'	5.00
Raising	"	none	none	2520.00	72.0'	35.00	60'	35.00
~~xxxfts~~ Shaft Repair	"	"	"	1277.50	36.5'	35.00	56'	35.00
~~xxxxes~~ Stat. Cuttin	cu/ft	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Sampling-assays	one samp	4.00	2	128.00	64	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$1618.00	--	$20195.30				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1618.00	--	$20195.30				$25,830.00

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 9/3/55 Operator Irving G. Irving and Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

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

(Instructions on reverse)

REMARKS:

(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

BRIEF NARRATIVE REPORT
on the
Plutus Mine, Silver Bow Co., Mont.
(Exploration Project No. 2874; Cont. Idm-E-604)
Irving G. Irving & Robert H. Nelson
for
August, 1955

RECEIVED
SEP 1 1955

Forty-one feet of advance was made on the subject contract during the month, leaving only 76.6' remaining to be done.

The terms of the contract, as amended, allow until September 21, 1955 for completion of this work. It would now appear that not all of the remaining footage will be done, unless additional time is granted. A review of the performance during the last several months indicates an average advance of about forty feet, and another thirty days would seem to be required to finish the 76.6' mentioned above.

The advance continued to expose ore until a point 87 feet from the station was reached (see attached map) and from this point to the present face, at 107', the material was waste. An ore shoot, approximately 45 feet long has thus been exposed.

Small, intermittent lenses of ore, asthe one reported above, have been exposed at several places in the course of carrying out the work of the entire project. It could well be, however, that the present ore shoot in this east drift is of larger extent and the waste now appearing in the face is only a large horse separating the ore exposed from more ore ahead. Only further advance will clarify this possibility.

The operators feel that it would seem advisable to continue the work (with this forty-five feet of ore showing) to the full extent allowed by the contract (that is the additional 76.6') to see if we are entering a more promising area. But, as mentioned above, this will require extending the time of the contract another thirty days.

Respectfully submitted,

I. G. Irving

I. G. Irving, Mgr.

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG 11 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July 1955 Docket No. DMEA 2874 Contract No. Mm-E604
Operator's Name Irving G., Irving and Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

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 Contracts:						
~~xxxxx~~ Shaft Repr.	none	$1277.50	$1277.50		1277.50	1277.50
~~xxxxx~~ Stat. Cutt.	"	1106.70	1106.70		1106.70	1106.70
~~xxxxx~~ Raising	"	2520.00	2520.00		2520.00	2520.00
Bulldozing						
Crosscutting	$680.00	$11199.60	$11879.60	680.00	11199.60	11879.60
Drifting						
Timbering Drift	45.00	1624.50	1669.50	45.00	1624.50	1669.50
(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	2.00	122.00	124.00	2.00	122.00	124.00
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$727.00	$17850.30	$18577.30	727.00	17850.30	18577.30

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

Date 7/30/55 *Payee Irving G. Irving & Robt. H. Nelson, Partners.

Per Irving G. Irving Title Partner.

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

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

(Instructions on reverse)

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

$ 545.25

Signature MEP
(Authorized Certifying Officer)

Date 8-5-55 Vou. No. 1570

(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. E604 in accordance with the terms of the contract.

Signature 1st Eldon C. Patter Title Mining Engr Date 8/1/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1st Stephen W Zoldok Title Mining Engr Date 8/3/55

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 July 1955 Docket No. DMEA 2874 Contract No. Idm-E604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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	foot	$680.00	20	$11879.60	349.4'	$34.00	470'	$34.00
Crosscutting ~~xxxxx~~ Timb. Dr.	"	45.00	9	1669.50	333.9'	5.00	470'	5.00
Raising	"	none	none	2520.00	72.0'	35.00	80'	35.00
Shafts ~~xxx~~ Shaft Repair	"	"	"	1277.50	36.5'	35.00	56'	35.00
~~xxxx~~ Stat. Cuttin	cu.ft.	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Sampl. & assay	one samp.	2.00	1	124.00	62	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$ 727.00	---	$18577.30				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$ 727.00	---	$18577.30				$25,830.00

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 7/30/55 Operator Irving G. Irving & Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

REMARKS:

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

(Instructions on reverse)

Eldon C. Pattee

(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

BRIEF NARRATIVE REPORT
on the
Plutus Mine, Silver Bow Co., Montana
(Exploartion Project No. 2874; Contract-Idm-E604)
(Irving G. Irving & Robt. H. Nelson)
For
July, 1955

Only twenty feet advance was made on the subject contract during the month of July, 1955. The two men assigned to this work took their vacation during the month and the balance of the crew were occupied with, in our case, very essential production. Also, accounting for the meagre work done, was the serious breakdown suffered in June, as it was not until several days passed in July that we were back into proper operation again. Then, there was a holiday during the month to add to it.

As the accompanying sketch will show, however, the east drift, on the so-called 275, or No. 4 level came into ore. To date, it appears as though an ore shoot at least twenty feet long has been developed, and the breast of the drift shows three to four feet of good ore. A sample taken near the face assayed--3.0' of 21.9% manganese.

It is to be hoped that, when drifting is resumed, which will be on August first, the ore will continue easterly and that a body of minable size and of some significance will be revealed. To date, however, the ore shoots, such as they were, that have been disclosed on the Plutus Vein have been very small and erratically placed. Drifting easterly, as we are now doing, may be entering more favorable country. The contract calls for an additional 117.6' in this direction and this work will be continued. It is expected that at least fifty feet will be made in August.

Respectfully submitted
I. G. Irving
I. G. Irving, Mgr.

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

Budget Bureau No. 42-R1036.5

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

RECEIVED
JUL 11 1955

Month of June, 1955 Docket No. DMEA 2874 Contract No. Idm-E604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY (WSM): Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts: Shaft Repr.	none	$1277.50	$1277.50			
~~Drift~~ Station Cut.	"	1106.70	1106.70			
~~Bulldozing~~ Raising	"	2520.00	2520.00			
Crosscutting	"	none	none *			
Drifting	$1122.00	10077.60	$11199.60			
Timbered Drift	165.00	1459.50	1624.50			
(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	4.00	118.00	122.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1291.00	16559.30	$17850.30	1291.00	16559.30	17850.30

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

Date 6/27/55 *Payee Irving G. Irving and Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 968 25

Signature MEP
(Authorized Certifying Officer)

Date 7-1-55 Vou. No. 1550
(See other side)

* Amend. No. 6 changed the 15' of crosscutting to drifting. So there is no crosscutting left in contract.

(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. E604 in accordance with the terms of the contract.

Signature /S/ John A. Bowsher Title Mining Engr Date June 27-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Engr Date 6/29/55

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 DF-104A
(Rev. 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUL 11 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1955 Docket No. DMEA 2874 Contract No. Idm-E-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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	foot	$1122.00	33.0'	$11199.60	329.4'	34.00	470*	$34.00
~~Crosscutting~~ Tim.Drift	"	165.00	33.0'	1624.50	324.9'	5.00	470*	5.00
Raising	"	none	none	2520.00	72.0	35.00	80	35.00
Shafts Shaft Repair	"	"	"	1277.50	36.5	35.00	56	35.00
~~xxxx~~ Stat. Cutt.	cu.ft	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
~~Sinking~~ Crosscuttin	ft.	none	none	none	none*	none	see below*	*
~~Drifting~~ Timb. xc/	"	"	"	"	" *	"	" *	*
Test Pits								
Roads and Trails								
Sampling & assay	one samp.	4.00	2	122.00	61	$ 2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$1291.00	---	$17850.30				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1291.00	---	$17850.30				$ 25,830.00

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 6/27/55 Operator Irving G. Irving and Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

REMARKS: *Note: Amendment 6, effective 5/25/55, converted the 15' of crosscut and timb. crosscut, previously allowed and listed to drifting. The authorized drifting, which was reported last month as 455' is now shown as 470' total allowed. Crosscutting will not be listed or shown in "Authorized Col" above from now on.

→ 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)

151 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

BRIE F NARRATIVE REPO

on the

Plutus Mine, Butte, Silver Bow Co., Montana

Exploration Project No. MMEA-2874; Contract No. Idm-E604
(Irving G. Irving & Robert H. Nelson)

RECEIVED

For
June, 1955

JUL 1 1 1955

Effective May 25, 1955, Amendment No. 6, allowed fifteen feet of crosscutting to be converted to drifting in the Plutus 244 level drift west. The total drifting allowed on this level was thus changed to 225.6'. Accordingly, the total drifting allowed that is shown in the "Authorized by Contract" column, on form MF-104A, is changed, on this report, from 455' to 470' and the 15 feet previously allowed for crosscutting, but not used, is deleted entirely.

Drifting was resumed, during the month, in the face of this west drift and carried to 222.6', leaving three feet to go. Only narrow ore was revealed. A sample, taken at 218.6' showed 1.2' of 20.8% manganese.

Work was resumed also, during the month, on the so-called 275 level (now called for signal reasons, the No. 4 level) and the drift east was advanced 21 feet from the old face, which had been driven to a point 25 feet from the station in January, 1954, before this work was stopped at the time. The present face is 46' from the station. This work also revealed only narrow vein material. A sample at 41 feet showed 2.2' of 17.6% manganese, in a structure about five feet wide. Drifting in this direction will be continued to the full distance allowed, which was 183.6'.

On June 20th the hoist motor--main hoist at the Plutus shaft--burned out and the crew had to be laid off, while a top crew set out to install a new 75 hp motor. We have been working all week, installing this motor, which required new gears for the hoist, new concrete foundation etc. It is expected that operations will be resumed underground this Tuesday, the 28th. There will be no further advance, however, on the subject exploration contract, during the month, and this report, dated June 27th, will represent the total progress to be made in June.

Respetfully submitted,

I. G. Irving

I. G. Irving, Mgr.

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

Budget Bureau No. 42-R1036.5

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

RECEIVED
JUN 20 1955

Month of May, 1955 Docket No. DMEA 2874 Contract No. Idm-E604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY (WBM): Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts: Shaft Rpr.	none	$1277.50	$1277.50			
Stat. Cutt.	"	1106.70	1106.70			
Drilling						
~~xxxxxxx~~ Raising	"	2520.00	2520.00			
Crosscutting	"	none	none			
Drifting	$1448.40	8629.20	$10077.60			
Timber.Drift	238.00	1221.50	1459.50			
(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	112.00	118.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1692.40	$14866.90	$16559.30	1692.40	14866.90	16559.30

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

Date 6/1/55 *Payee Irving G. Irving & Robert H. Nelson, Partners

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 1269 30

Signature MJP
(Authorized Certifying Officer)

Date 6-15-55 Vou. No. 1525
(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 604 in accordance with the terms of the contract.

Signature /s/ Gideon A. Apell Title Mining Engr. Date 6-2-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W. Zoldok Title Mining Engr. Date 6/6/55

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

RECEIVED
JUN 20 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 195 5 Docket No. DMEA 2874 Contract No. Idm-E604

Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese

Address 43 Hirbour Bldg. Butte, 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	foot	$1448.40	42.6'	$10077.60	296.4	$34.00	455	$34.00
xxxxxxx Timb. Dr.	"	238.00	47.6'	1459.50	291.9	5.00	455	5.00
Crosscutting	"	none	none	2520.00	72.0	35.00	80	35.00
Raising (shaft Repair	"	"	"	1277.50	36.5	35.00	56	35.00
Shafts xxxxx Stat. Cutt.	cu/ft	"	"	1106.70	892.5	1.24	1300	1.24
Winzes								
Drilling: Core								
Churn								
Auger								
xxxxx Crosscutting	ft.	none	none	none	none	none	15.0	34.00
Stripping xxxxx Timber xc	"	"	"	"	"	"	15.0	5.00
Trenching								
Test Pits								
Roads and Trails								
Sampling & Assay	one assay	6.00	3	118.00	59	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$1692.40	--	$16559.30				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1692.40	--	$16559.30				$25,830.00

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 6/1/55 Operator Irving G. Irving and Robert H. Nelson, Partners

Per Irving G. Irving Title Partner

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

REMARKS:

(Instructions on reverse)

(For Government use only)

Gideon 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, or 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

BRIEF NARRATIVE REPORT

on the

Plutus Mine, Butte, Montana (Silver Bow Co.)

Exploration Project No. DMEA-2874; Contract No. Idm-E604
(Irving G. Irving and Robt. H. Nelson)

for

May p- 1955

RECEIVED
JUN 20 1955

A 42.6-foot advance was made, under the subject contract, in the west drift on the 244 level of the Plutus Mine during the month of May. Timber was brought up to the face, advancing 47.6 feet.

The vein displayed about the same characteristics as previously, containing only short, disconnected little shoots of manganese carbonate---not really ore because of the narrowness of the material. No ore resulted from this drifting. The present face is now more than 75 feet beyond the last "ore shoot"--if the short showing could be called that.

The advance during the month used up all of the westerly drifting allowed under the contract. Altho, a request has been made to have the fifteen feet of crosscutting allocateed in this area converted to drifting. If granted, the drift will immediately be advanced another fifteen feet. As soon as this has been done, or rather while awiating the outcome of this request, the crew will go down on to the so-called 275 level and resume easterly drifting on the same structure, where a total of 158.6 feet of work remains to be done under the contract. If this drifting is carried out, the vein will have been prospected over a lateral range of about 460 feet and over a vertical range of more than 100 feet. Nothing that could properly be called an ore shoot has been encountered to date.

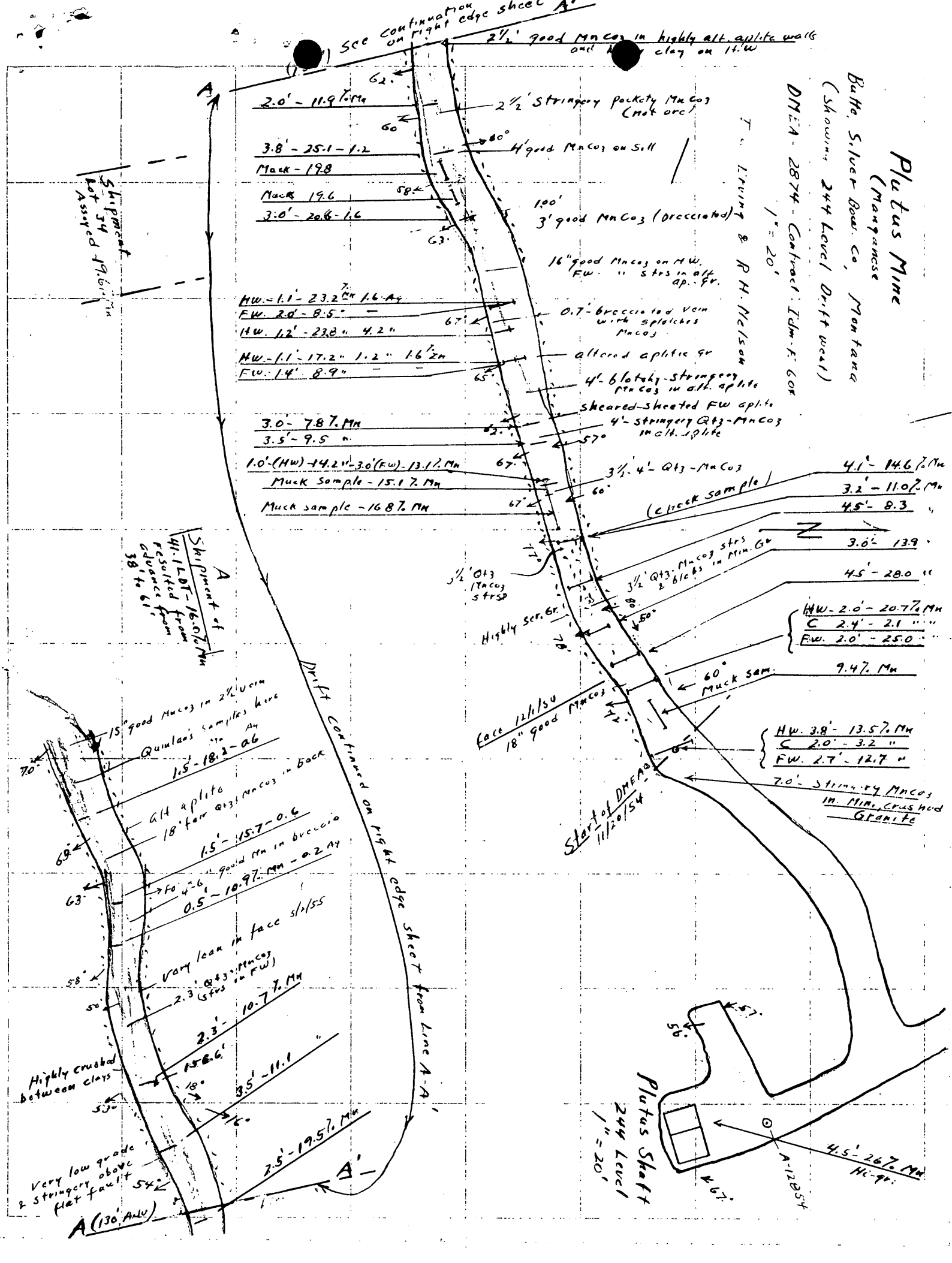
Perhaps ore exists to the east. In this connection, work is to be carried out on this project to complete conclusion.

Respectfully submitted,

I. G. Irving

I. G. Irving, Mgr.

COPY


Plutus Mine
(Manganese)
Butte, Silver Bow Co., Montana
(Showing 244 Level Drift west)
DMEA - 2874 - Contract Idm-F 60
1" = 20'
T. Irving & R.H. Nelson
See continuation on right edge sheet A'
2½' good MnCo3 in highly alt. aplite walls and clay on H.W.
2.0' - 11.9% Mn
2½' stringery pockety MnCo3 (not ore)
3.8' - 25.1 - 1.2
Muck - 19.8
Muck 19.6
3.0' - 20.6 - 1.6
H' good MnCo3 on Sill
3' good MnCo3 (brecciated)
16" good MnCo3 on H.W. F.W. " strs in alt. ap. gr.
Shipment Lot 34 Assayed 19.6% Mn
H.W. - 1.1' - 23.2% Mn 1.6 Ag
F.W. 2.0' - 8.5" -
H.W. 1.2' - 23.8 " 4.2 "
H.W. - 1.1' - 17.2 " 1.2 " 1.6 Zn
F.W. 1.4' 8.9 " - -
0.7' - brecciated vein with splotches MnCo3
altered aplitic gr
4' - blotchy - stringery MnCo3 in alt. aplite
sheared - sheeted F.W. aplite
4' - stringery Qtz - MnCo3 in alt. aplite
3.0' - 7.8% Mn
3.5' - 9.5 "
1.0' (H.W.) - 14.2 " - 3.0' (F.W.) - 13.1% Mn
Muck Sample - 15.1% Mn
Muck sample - 16.8% Mn
3½' - 4' - Qtz - MnCo3
(check sample)
4.1' - 14.6% Mn
3.2' - 11.0% Mn
4.5' - 8.3 "
3.0' - 13.9 "
4.5' - 28.0 "
3½' Qtz MnCo3 strs
3½' Qtz - MnCo3 strs & blocks in Min. Gr.
Highly Ser. Gr.
H.W. - 2.0' - 20.7% Mn
C 2.4' - 2.1 " "
F.W. 2.0' - 25.0 " "
60° Muck sam.
9.4% Mn
Face 12/1/54
18" good MnCo3
H.W. 3.8' - 13.5% Mn
C 2.0' - 3.2 "
F.W. 2.7' - 12.7 "
7.0' - Stringery MnCo3 in Min. Crushed Granite
Start of DMEA 11/20/54
Shipment of 41.1 LDT - 16.0% Mn resulted from advance from 38' to 61'
Drift continued on right edge sheet from Line A-A'
15" good MnCo3 in 2½' vein
Quinlan's samples here
1.5' - 18.2 - 0.6
Alt aplite
18" fair Qtz MnCo3 in back
1.5' - 15.7 - 0.6
4" - 6' good Mn in breccia
0.5 - 10.9% Mn - 0.2 Ag
Very lean in face 5/2/55
2.3' Qtz MnCo3 strs in F.W.
2.3' - 10.7% Mn
1.5 - 6.6'
3.5' - 11.1 "
Highly crushed between clays
7.5' - 19.5% Mn
Very low grade & stringery above flat fault
A (130' A.L.U.)
A'
Plutus Shaft
244 Level
1" = 20'
4.5' - 26% Mn Hi-gr.
A-12854

Form MF-104 (Rev. [redacted] 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration RECEIVED MAY 12 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 195 5 Docket No. DMEA 2874 Contract No. Idm-5604

Operator's Name Irving G. Irving & Robt. H. Nelson, Minerals Manganese

Address 43 Hirbour Bldg., Butte, Montana

Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY WSM: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
~~xxxxx~~ Shaft Rpr.	none	$1277.50	$ 1277.50		1277.50	1277.50
~~xxxxx~~ Station Cutt.	"	1106.70	1106.70		1106.70	1106.70
~~xxxxx~~ Raising	"	2520.00	2520.00		2520.00	2520.00
~~Bulldozing~~	"	none	none		— o —	— o —
Crosscutting	$1224.00	$7405.20	$ 8629.20	1224.00	7405.20	8629.20
Drifting						
Timboring Drift	210.00	$1011.00	$1221.00	210.00	1011.50	1221.50
(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	106.00	112.00	6.00	106.00	112.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1440.00	$13426.40	$14866.40	1440.00	13426.90	14866.90

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

Date 5/2/55 *Payee Irving G. Irving and Robt. H. Nelson, Partners.

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 1080 00

Signature M DP
(Authorized Certifying Officer)

Date 5-9-55 Vou. No. 1504

(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 604 in accordance with the terms of the contract.

Signature /S/ Gideon A Apell Title Mining Eng. Date 5-3-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr. Date 5-5-55

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 MP-104A
(April 1952)

Budget Bureau No. 42-R1151.2

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 12 1955

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

Month of April 1955 Docket No. DMEA 2074 Contract No. Idm-E604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg., Butte, 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	foot	$1224.00	36'	$8629.20	253.8'	$34.00	455'	$34.00
~~Crosscutting~~ Timb. Drif.	"	210.00	42'	1221.00	244.3'	5.00	455'	5.00
Raising	"	none	none	2520.00	72.0'	35.00	80'	35.00
~~Sinking~~ Shaft Repair	"	"	"	1277.50	36.5'	35.00	56'	35.00
~~Xxxx~~ Stat. cutting	cu.ft.	"	"	1106.70	892.5'	1.24	1300'	1.24
Drilling: Core								
Churn								
Auger								
~~Stopex~~ Crosscuttin.	ft.	none	none	none	none	none	15'	34.00
~~Timbering~~ Timber xc	"	"	"	"	"	"	15'	5.00
Test Pits								
Roads and Trails								
Sampling & assayin.	one	6.00	3	112.00	56	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$ 1440.00	~~----~~	$14866.40 90				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1440.00	~~----~~	$14866.40 90				$25,830.00

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.

Irving G. Irving and Robt. H. Nelson, Partners

Date 5/2/55 Operator

Per Irving G. Irving Title Partner.

REMARKS:

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

(Instructions on reverse)

(For Government use only)

151 G 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

BRIEF NARRATIVE REPORT

on the
Plutus Mine, Butte, Silver Bow County, Montana

Office of Minerals
RECEIVED
12 1955

Exploration Project---DMEA-2874--Contract No. Idm-E604
(Irving G. Irving & Robt. H. Nelson)

for

April, 1955

A thirty-six foot advance was made , under the subject contract in the west drift on the 244 level, during the month. This is approximately the same advance asduring the previous month.

The vein--and the short narrow ore shoots it has displayed to date----continues to be most disappointing.

In last month's report a hopeful attitude was taken of the ore being disclosed. But an additional advance of only eight feet, at the beginning of the new month, terminated the little shoot of ore, which proved to be about 45 feet long, with the ore showing only erratically in the back of the drift, providing no certain block for stoping.

A flat fault (see sketch) seemed to terminate the ore shoot, such as it was, and the vein appears to be turning to the right and becoming lean and non-commercial again.

Advance of this work is to be continued, but, as mentioned above, the development to date has been very disappointing. The structure is strong, however, and the mineralization in places is of an attractive grade. One can only hope that a sizeable section of the vein ahead may prove to be commercial.

Respectfully submitted,

I. G. Irving

I. G. Irving, Mgr.

COPY

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 March, 1955 Docket No. DMEA 2874 Contract No. Idm-E-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY W3M: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts: Short Form: Shaft Rpr.	none	$1277.50	$1277.50			
Stat.cutt.	"	1106.70	1106.70			
Raising	"	2520.00	2520.00			
Crosscutting	"	none	none			
Drifting 37 ft	$1258.00	6147.20	7405.20	1258.00		
Timber Drift 31 ft	155.00	856.50	1011.00	155.00		
(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	10.00	96.00	106.00	10.00		
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1423.00	$12003.90	$13426.90	1423.00	12003.90	13426.90

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

Date 4/1/55 *Payee Irving G. Irving & Robert H. Nelson, Partners

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
1067 25
$ 1067 25

Signature MGP
(Authorized Certifying Officer)

Date 4-8-55 Vou. No. 1473
(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 604 in accordance with the terms of the contract.

Signature /S/ John D. Bardill Title Metallurgist Date 4/4/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Engr Date 4/5/55

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 12 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1955 Docket No. DMEA 2874 Contract No. Idm-E-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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	foot	$1258.00	37'	$7405.20	217.8'	34.00	455 X	$34.00
~~Crosscutting~~ Timber Dr.	"	155.00	31'	1011.50	202.3	5.00	455 X	5.00
Raising	"	none	none	2520.00	72.0	35.00	80	35.00
Shafts Shaft Repr.	"	"	"	1277.50	36.5	35.00	56	35.00
~~Winzes~~ Stat. Cuttin	cu/ft	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
~~Crosscutting~~ Crosscutting	ft.	none	none	none	none	none	15.0	34.00
~~Timbering~~ Timber xc	"	"	"	"	"	"	15.0	5.00
Test Pits								
Roads and Trails								
Sampling & assay Samp.	one	10.00	5	106.00	53	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$1423.00	---	$13426.90				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1423.00	###	$13426.90				$25830.00

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 4/1/55 Operator Irving G. Irving & Robert H. Nelson, Partners

Per Irving G. Irving Title Partner

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

REMARKS:

(Instructions on reverse)

(For Government use only)

Isl 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 83-38475

Colorado Minerals Adm.
RECEIVED
APR 12 1955

BRIEF NARRATIVE REPORT

on the

Plutus Mine, Butte, Silver Bow Co. Montana

Exploration Project --DMEA-2874--Contract No. Idm-#-604
(Irving G. Irving & Robt. H. Nelson)

for

March 1955

A somewhat larger advance was accomplished on this project than during the previous month. And the results were definitely more encouraging. A total advance of 37 feet was made, and, if the accompanying geological sketch be examined and the assays inspected it will be seen that fair ore was encountered at the start of the advance and continues to the present face. So far, an oreshoot at least thirty seven feet long is indicated. A lens of ore somewhat similar in some respects was encountered about fifty feet back, but this particular showing looks more encouraging as the width is greater and the grade decidedly better.

The material disclosed to date has averaged 2.6' in width and 19.8% manganese. A shipment of approximately forty tons has been made that will probably run 19.5% manganese.

The structure is less brecciated and stike-faulted and perhpas an oreshoot of some consequence lies ahead. Drifting will, ofcourse, be continued.

Respectfully submitted,

I. G. Irving, Mgr.

COPY

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

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

INTERIOR
Minerals Administration
RECEIVED
MAR 10 1955

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

Month of February 1955 Docket No. DMEA 2874 Contract No. IGn-E604

Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese

Address 43 Hirbour Bldg. Butte, Montana

Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY WSM: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts: Short Form						
xxxxx Shaft Rpr.	none	$1277.50	$ 1277.50			
Drilling Station Cut.	"	1106.70	1106.70			
xxxxxx Raising	"	2520.00	2520.00			
Bulldozing	"	none	none			
Crosscutting						
Drifting	$ 918.00	5229.20	6147.20			
Timbering Drift	150.00	706.50	856.50			
(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	10.00	86.00	96.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1078.00	$10925.90	$12003.90	1078.00	10925.90	12003.90

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

Date 3/2/55 *Payee Irving G. Irving and Robt. H. Nelson, Partners.

Per Irving G. Irving Title Partner.

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

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

(Instructions on reverse)

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

$ 808.50

Signature MEP
(Authorized Certifying Officer)

Date 3/7/55 Vou. No. 1453
(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. 6604 in accordance with the terms of the contract.

Signature /S/ John D. Bardill Title Metallurgist Date 3-2-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldak Title Mining Eng Date 3-3-55

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 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

DEPARTMENT OF THE
Defense Minerals Administration
RECEIVED
MAR 10 1955

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

Month of February 1955 Docket No. DMEA 2874 Contract No. Idm-E-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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	foot	$918.00	27'	$ 6147.20	180.8'	34.00	455'	$34.00
~~xxxxxxx~~ Timb. Drift	"	150.00	30'	856.50	171.3'	5.00	455'	5.00
Raising	"	none	none	2520.00	72.0'	35.00	80'	35.00
~~xxxx~~ Shaft Repair	"	"	"	1277.50	36.5'	35.00	56'	35.00
~~xxxx~~ Sta. cutting	cu/ft	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
~~xxxx~~ Crosscutting	ft.	none	none	none	none	none	15.0	34.00
~~xxxxx~~ Timber	xc	"	"	"	"	"	15.0	5.00
Test Pits								
Roads and Trails								
Sampling & assay	one sam.	10.00	5	96.00	48	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$1078.00	---	$12003.90				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1078.00	---	$12003.90				$25,830.00

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 3/2/55 Operator Irving G. Irving and Robt. H. Nelson, Partners,

Per Irving G. Irving Title Partner

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

NARRATIVE REPORT
on the
Plutus Mine, Butte, Silver Bow Co., Mont.

Exploration Project --DMEA-2874; Contract No. Idm-E604
(Irving G. Irving & Robert H. Nelson)

Defense Minerals Administration
RECEIVED
MAR 10 1955

for
February---1955

Again the advance was limited in the Plutus drift west, under the subject contract. As during the previous month, the reason was that the two men assigned to this development work were pulled off the project to continue rehabilitating the Plutus shaft, preparatory to opening up a still lower level. As a matter of fact, it may now be reported that the Plutus shaft is deepened to a point 350 feet below its collar. Also the pump had to be set down to successivly lower points.

For the time being, however, it is expected that the contract can be pushed more vigorously and an advance of probably fifty feet is envisioned for March.

The drifting accomplished, however, displayed only lensy ore within strong clay walls. A high grade streak appeared on the hangingwall side of the vein and a few tons were accumulated for later shipment. The accompanying sketch shows the geology and sampling of the new work. It will be seen that the ore on the hangingwall side has an attractive grade, and if it would widen out just a little more would be a fairly attractive showing. There is some basis for a hope that an oreshoot may be encountered just ahead, as the drift gets vertically under the so-called 20-foot shaft on the surface, where a four foot vein of pretty good ore is revealed. If the oreshoot has no particular rake this ore could be encountered soon.

Respectfully submitted,

I. G. Irving

I. G. Irving, Mgr.

COPY

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January 1955 Docket No. DMEA 2874 Contract No. Idm-E604

Operator's Name Irving G. Irving & Robert H. Nelson. Minerals Manganese

Address 43 Hirbour Bldg. Butte, Montana

Contract Amount, $ 25,830.00 Government Participation 75 % Amount, $ 19,372.50

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 Contracts:						
~~xxxxxx~~ Shaft Rpr.	none	$1277.50	$1277.50			
Short Form Cutting Sta.	"	1106.70	1106.70			WSM
Drilling ~~xxxxx~~ Raising	"	2520.00	2520.00			
Bulldozing	"	none	none			
Crosscutting	$918.00	4311.20	5229.20			
Drifting Timbering Drift	120.00	586.50	706.50			
(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	14.00	72.00	86.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$ 1052.00	$9873.90	$10925.90	1052.00	9873.90	10925.90

I certify that the above bill is correct in all respects and that payment thereof has not been received.

Date 2/2/55 *Payee Irving G. Irving and Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 789.00

Signature [illegible]
(Authorized Certifying Officer)

Date 2-4-55 Vou. No. 1429

(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-604 in accordance with the terms of the contract.

Signature /S/ John D. Bardill Title Metallurgist Date Feb 2-1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Eng. Date 2/2/55

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 January 195 5 Docket No. DMEA 2874 Contract No. Idm-R604

Operator's Name Irving G. Irving & Robert H. Nelson. Minerals Manganese

Address 43 Hirbour Bldg. Butte, 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	foot	$918.00	27	$5229.20	153.8	$34.00	455	$ 34.00
xxxxxxx Timber Dr. Crosscutting	"	120.00	24	706.50	141.3	5.00	455	5.00
Raising	"	none	none	2520.00	72.0	35.00	80	35.00
xxxx Shaft Repair Shafts	"	"	none	1277.50	36.5	35.00	56	35.00
xxxx Stat. Cuttin Winzes	cu.ft.	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
xxxxxx Crosscutting Stripping	ft.	none	none	none	none	none	15.0	34.00
xxxxxx Timber xc Trenching	"	"	"	"	"	"	15.0	5.00
Test Pits								
Roads and Trails								
Sampling & Assayin	one samp.	14.00	7	86.00	43	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$1052.00	--	$10925.90				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1052.00	--	$10925.90				$25,830.00

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.

2/2/55 Irving G. Irving and Robt. H. Nelson, Partners

Date Operator

Per Title Partner

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

NARRATIVE REPORT on the
Plutus Mine, Butte, Montana
Exploration Project--DMEA-2874-Contract No. idm-E604
(Irving G. Irving and Robert H. Nelson)
for
January 1955

An advance of 27 feet was accomplished in the drift west, on the Plutus Vein, on the 244 level, during January, 1955.

The advance was again limited because the men available for this work were used part of the time helping to prepare the new No 4 level, which at this stage of the mines development is most essential for continued production on the Norwich Veins, to the north. This new level, and the shaft repair necessitated is being opened up entirely on the operators own account.

The advance in the drift, as shown on the attached geological sketch, continued to show a strong vein structure, intermittently mineralized sufficiently to contain commercial ore. A shipment of 41.1 LDT of material assaying 16.0% manganese resulted from the ore stripped during the advance from 38 to 61 feet. The present face, at 68 feet, is however lean again, showing only weak rhodochrosite stringers in highly altered aplitic granite.

It is hoped that a larger advance--perhaps forty feet or so--will be made during February.

Respectfully submitted,

I. G. Irving, Mgr.

COPY

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 December 1954 Docket No. DMEA 2874 Contract Idm-E604

Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese

Address 43 Hirbour Building, Butte, Montana

Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

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) ~~Development~~ Short Form Contracts: Shaft Rpr.	none	$1277.50	$1277.50			
Sutting Stat.	"	1106.70	1106.70			WBM
Drilling						
Bulldozing Raising	"	2520.00	2520.00			
Crosscutting	"	none	none			
Drifting	$850.00	3461.20	4311.20			
Timbering Drift	100.00	486.50	586.50			
(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	8.00	64.00	72.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$958.00	$8915.90	$9873.90	958.00	8915.90	9873.90

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

Date 12/31/54 *Payee Irving G. Irving and Robt. H. Nelson, Partners,

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 718.50

Signature MOP
(Authorized Certifying Officer)

Date 1/6/55 Vou. No. 1396
(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. Ee 604 in accordance with the terms of the contract.

Signature (S) John D. Burdell Title Metallurgist Date Jan 3-1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen W. Goldoft Title Mining Eng. Date Jan 3-1955

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 December 1954 Docket No. DMEA 2874 Contract No. Idm-E-604

Operator's Name Irving G. Irving and Robert H. Nelson Minerals Manganese

Address 43 Hirbour Bldg. Butte, 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	foot	$850.00	25	$4311.20	126.8	$34.00	455	$34.00
~~Crosscutting~~ Timbering Dr.	"	100.00	20	586.50	117.3	5.00	455	5.00
Raising	"	none	none	2520.00	72.0	35.00	80	35.00
~~Winze~~ Shaft Repair	"	"	"	1277.50	36.5	35.00	56	35.00
~~Stope~~ Sta. Cutting	cu/ft	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
~~Crosscutting~~ Crosscutting	ft.	none	none	none	none	none	15	34.00
~~Timbering~~ Timber xc	"	"	"	"	"	"	15	5.00
Test Pits								
Roads and Trails								
Sampling & assays	one assay	8.00	4	72.00	36	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$958.00	--	$9873.90				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$958.00 ~~$958.00~~		~~$9873.90~~				~~$25,830.00~~

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.

Irving G. Irving and
Robert H. Nelson, Partners

Date 12/31/54 Operator

Per Irving G. Irving Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

NARRATIVE REPORT

Plutus Mine, Butte, Montana

Exploration Project, DMEA 2874--Contract No. Idm-E604

Irving G. Irving and Robert H. Nelson
for
December, 1954

A twenty-five foot advance in the drift on the Plutus Vein, on the 244 level west was made during December. Advance was limited because of pump trouble caused by the burning out of the submersible pump which is the mainstay unit in keeping the mine dry. This entailed taking the two men off the Plutus work for quite a period installing secondary pumps and rearranging the pump columns etc. Quite a bit of time and a financial loss was suffered.

The advance achieved in the drift showed a strong vein, intermittently mineralized with lenses of commercial ore in highly sericitized granite walls. Four samples were taken and these plus the geology are shown on the attached sketch. A little development ore was produced, and the face, at the end of the month, showed 3.2 feet of 11.0% manganese and no silver.

Work will be continued on this structure in January and a larger advance is expected.

Very truly yours,

I. G. Irving

I. G. Irving

COPY

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

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

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

Month of November, 1954 Docket No. DMEA 2074 Contract No. Idm-8604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY WSM: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts:						
Short Form Shaft Repr	none	$ 1277.50	$1277.50			
Drilling Cutting Sta.	"	1106.70	1106.70			
Blasting	"	2520.00	2520.00			
Crosscutting Raising	"	none	none			
Drifting	$544.00	2917.20	3461.20			
Timbering drift	80.00	406.50	486.50			
(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	$14.00	$ 50.00	$64.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$ 638.00	$ 8277.90	$8915.90	638.00	8277.90	8915.90

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

Date 12/6/54 *Payee Irving G. Irving & Robert H. Nelson, Partners,

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 478.50

Signature MJP
(Authorized Certifying Officer)

Date 12/23/54 Vou. No. 1390
(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. E604 in accordance with the terms of the contract.

Signature /S/ John D Barkell Title Metallurgist Date 12/15/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 12/16/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

Defense Minerals Exploration Administration
RECEIVED
DEC 28 1954

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

Month of November 1954 Docket No. DMEA-2074 Contract No. Mm-2604
Operator's Name Irving C. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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	foot	$544.00	16.0'	$3461.20	101.8'	$34.00	455	$34.00
XXXXXXXXXXCrosscutting Timber. Dr.	"	80.00	16.0	486.50	97.3	5.00	455	5.00
Raising	"	none	none	2520.00	72.0	35.00	80	35.00
XXXXXXXXXXShafts Chaft Repair	"	"	"	1227.50	36.5	35.00	56	35.00
XXXXXXXXXXStopes Stat. Cutting-cu/ft.	"	"	"	1106.70	892.5	$1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
XXXXXXXXXXCrosscuttin	foot	none	none	none	none	none	15.0	34.00
XXXXXXXXXXTimber. XC	"	"	"	"	"	"	15.0	5.00
Test Pits								
Roads and Trails								
Sampling Assaying	one assay	14.00	7	64.00	32	2.00	249	2.00
TOTAL DISTRIBUTED COSTS		$638.00	--	$8915.90				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS		$638.00	--	$8915.90				$25,830.00

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.

12/6/54 Irving C. Irving and Robt. H. Nelson, Partners
Date Operator

Per Irving C. Irving Title Partner

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT
Plutus Mine, Butte, Montana

Exploration Project, DMEA #2874, Contract Idm-E-604

Irving G. Irving and Robert H. Nelson.

November, 1954

DEC 27 1954

The drift west, on the Plutus Vein on the 24' level, was begun during the month of November. An advance of sixteen feet (timbered drift) was made. It is the intention of the operators, following a complete reappraisal of the development possibilities of the entire Plutus-Norwich Vein systems, to drift westerly on this structure for the entire distance allowed in the contract. It is also hoped that the easterly drifting on the same vein, on the level below, can be resumed in the near future.

As shown on the attached sketch, the Plutus Vein was previously exposed by crosscutting done on the operator's own account, as a strong structure--seven feet wide-- where intersected, sixty feet west of the Plutus shaft. It assayed about ten percent manganese.

The sixteen feet of drifting accomplished so far (work was started during the last week of the month) has shown some improvement, and it is believed that a full face of ore could appear in the face of the drift within a short distance. As the long section will show, ore was found on the level above, ahead of this face although its downward extension remains to be seen. Note sampling on attached sketch.

Respectfully submitted,

I. G. Irving

I. G. Irving

COPY

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

Budget Bureau No. 42-R1036.5

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

Month of October 195 4 Docket No. DMEA 2874 Contract No. Idm-3-604
Operator's Name Irving O. Irving & Robert H. Nelson Minerals Manganese
Address 43 Harbour Bldg. Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: ____% Amount, $ 19,372.50

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 ~~Drilling~~ Shaft Repr.	none	$1277.50	$ 1277.50			
Cutting Sta.	"	1106.70	1106.70			
~~Bulldozing~~ Raising	$1295.00	1225.00	$ 2520.00			
Crosscutting	none	none	none			
Drifting	"	2917.20	2917.20			
Timbering Drift	"	406.50	406.50			
(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	$ 18.00	$32.00	$50.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1313.00	$6964.90	$8277.90	1313.00	6964.90	8277.90

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 11/8/54 *Payee Irving O. Irving & Robert H. Nelson, Partners
Per Irving O. Irving Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$ 984 75
Signature MEP
(Authorized Certifying Officer)
Date 12/10/54 Vou. No. 1368
(See other side)

1C 104a - Narrative and map sent to Washington 11/17/54

12/13/54 - Work has been resumed.

(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. E604 in accordance with the terms of the contract.

Signature /s/ John D. Burdill Title Metallurgist Date 11/16/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W. Goldoft Title Mining Eng. Date 11/16/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form DMEA-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Department of the Interior
Defense Minerals Administration
RECEIVED
NOV 22 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1954 Docket No. DMEA 2874 Contract No. Idm-3-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg. Butte, 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	foot	none	none	$2917.20	85.8'	$34.00	455*	$34.00
Crosscutting Timber Dr	"	"	"	406.50	81.3'	5.00	455*	5.00
Raising	"	$1295.00	37'	2520.00	72.0'	35.00	80	35.00
Shaft Repair	"	none	none	1277.50	36.5	35.00	56'	35.00
Stat. Cutt.	cu/ft	"	"	1106.70	892.5	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
Crosscutting	ft.	none	none	none	none	none	*15.0'	34.00
Timber Xo	"	"	"	"	"	"	*15.0'	5.00
Test Pits								
Roads and Trails								
Sampling-assaying	one sam.	$10.00	9	50.00	25	2.00	249	2.00
Total Distributed Costs		$1313.00	----	$8277.90				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$1313.00	----	$8277.90				$25,030.00

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

Date 11/8/54 Operator Irving G. Irving & Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

Remarks:

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

(Instructions on reverse)

(For Government use only)

* Amendment No 2 has actually changed the 470 feet of drifting and 470' of timbered drift to 455' of drift and timbered drift as 15 feet of drifting originally allowed was changed over in substitution to 15' of crosscutting and 15' of timbered crosscut. See Amendment 2

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.

No work is being done under the contract at this time but an amendment is being prepared to extent contract time, we understand.

GPO 83-38475

NARRATIVE REPORT

Plutus Mine, Butte, Montana

Exploration Project: DMEA-2874--Contract No. Idm-E-604

Irving G. Irving and Robert H. Nelson.

October, 1954

Work continued on the captioned DMEA project during October. The raise on the Plutus Vein, on the 200 level, was advanced 37 feet to a total of 72 feet, at which height it holed the old Plutus 125 level.

This additional advance, however, was not entirely in ore. As the 125 sill was approached, the structure, while remaining strong, began to widen and the material between the bounding clays became lean. As the Long Section (with assays) on the attached sketch will show, the last eight or ten feet of the raise revealed no commercial ore. The old 125 level above, only partly accessible, was mapped and the gain in the part where it could be observed was not too well mineralized. The drift is caved and incessible, however, going east and it could well be that better showings occur beyond the caved face.

No shipments resulted from the material obtained in the month's advance. While the material coming from the interval 35 to 60 feet would probably have carried itself, the rock added later from the top of the raise was lean enough to reduce the overall average to 11.8% manganese, which is not ore.

A block of ore is indicated, however, extending from the back of the sill to the west of the raise, to a height of about 60 feet up in the raise. Some ore may extend east of the raise and only intermediate work in this direction from the raise, or more sill work to the east will prove this one way or the other. It is for the reason and many others that it is hoped that approval of further easterly work on this level will be obtained.

As mentioned i n earlier reports the rake, if any, to the Plutus ore occurrences is still not known. They may represent only pods of varying size, but before any worthwhile conclusions may be reached, the country to the east toward the rhyolite should be explored. Asin the adjoining Hibernia Mine, something quite worthwhile may be exposed in the structus as it approaches the rhyolite.

Very truly yours,

I. G. Irving

I. G. Irving

COPY

Form [illegible] (Rev.) (April 1952)

Budget Bureau No. 42-R103
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED OCT 29 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1954 Docket No. DMEA 2074 Contract No. [illegible]
Operator's Name Irving G. Irving & Bob. H. Nelson Minerals [illegible]
Address [illegible], Butte, Montana
Contract Amount, $[illegible] Government Participation 75 % 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 Contracts:						
Short Form Drilling Chuck Dr.	none	$1277.50	1277.50			
Cutting Sta.	"	1106.70	1106.70		1106.70	1106.70
Rotating	$1225.00	none	1225.00			
Crosscutting	none	"	none			
Drifting	"	2917.20	2917.20			
Timbering Drift	"	406.50	406.50			
(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	$21.00	11.00	$32.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1246.00	$6718.00	$6964.00			

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

Date 10/14/54 *Payee Irving G. Irving & Bob. H. Nelson, Partners

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 934 50

Signature MJP
(Authorized Certifying Officer)

Date 10/27/54 Vou. No. 1326
(See other side)

* This amount includes $7.00 (the difference between the $11.00 reported and the $18.00 that should have been reported for the 9 samples in January's 1954 Report.

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E604 in accordance with the terms of the contract.

Signature /S/ John D Bardill Title Metallurgist Date ~~[illegible]~~ 10/19/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Eng Date 10/19/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MFc104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 29 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1954 Docket No. DMEA 2074 Contract No. [illegible]
Operator's Name Irving C. Irving & Robt. M. Nelson Minerals [illegible]
Address 43 Harbour Bldg., Butte, 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	foot	none	none	$2917.20	85.0	34.00	485**	34.00
~~Crosscutting~~ Timber Dr.	"	"	"	409.50	81.9	5.00	485**	5.00
Raising	"	$1225.00	35*	$1225.00	35.0	35.00	50	35.00
Shafts Shaft Repr.	"	none	none	1277.50	36.5	35.00	50	35.00
~~Winzes~~ XXX Stnt. Cutbin	cu/ft	"	"	1103.70	899.5	1.24	1,200	1.24
Drilling: Core								
Churn								
Auger								
~~Stripping~~ Crosscutting	ft.	none	none	none	none	none	15**	34.00
~~Trenching~~ Timber x-cut	"	"	"	"	"	"	15**	5.00
Test Pits								
Roads and Trails								
* Assaying	assay	$21.00*	7*	38.00	19	2.00	240	2.00
TOTAL DISTRIBUTED COSTS		$1246.00	--	$6924.20				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1246.00		$6924.20				$25,020.00

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 10/14/54 Operator Irving C. Irving and Robt. M. Nelson, Partners

Per Irving C. Irving Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

* Cost of $21.00 includes $7.00 that should have been charged in the January, 1954 report where nine assays were entered as $11.00 instead of $18.00

** Amendment No. 2 has actually changed the 470 feet of drifting and timbering of 470 feet of drift to 485 feet in each case, as 15 feet of the drifting originally allowed was changed over, in substitution, to 15 feet of crosscutting and 15 feet of timbering crosscut. See Amendment 2

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT
Plutus Mine, Butte, Montana

Exploration Project: DMEA-2874---Contract Idm-E-604

Irving G. Irving & Robert H. Nelson

September, 1954

After a period of inactivity, due to operating reasons and other factors, work was again resumed on the captioned DMEA project.

Approval had been obtained to do some of the 80 feet of raising allowed in the contract on the 200 level, east of the shaft pillar. The attached sketch shows the exact location of the work.

Prior to obtaining this approval the operators had, on their own account, advanced the east drift some 40 feet beyond the DMEA drifting, to a point about 59 feet east of the crosscut off the station.

In the course of this work some pretty fair oxidized manganese ore was revealed---a showing that definitely warranted, in the opinion of the operators, some raise work to determine the extent of the ore disclosed.

During the month of September the raise wasadvanced 35 feet and refealed a good manganese vein, and continuous ore, approximately four feet in width and averaging, as shown on the attached sketch:

4.1' of 19.6 % Manganese

The raise produced the following tonnage, which hasbeen shipped:

123.0 LDT assaying * approximately 16.6% mn

The final settlement and the determination of actual value of such material will have to await (as provided for in the purchase regulations) testing at theBureau of Mines laboratory, at Albany, Ore.

The showing in the back of the raise is such, however, as to prompt the operators to request permission to extend the raise to a point 80 feet above the sill, using up in this manner all of the raising allowed in the contract. Already it appears that a substantial block of material is indicated.

The rake, if any, of the orebody being disclosed is still unknown. But it is hoped that the present work will contribute something in thisrespect.

Very truly yours,

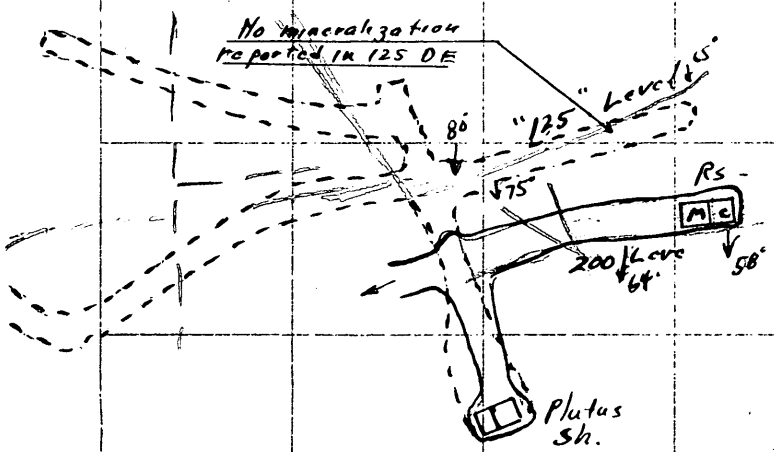
I. G. Irving

I. G. Irving

COPY

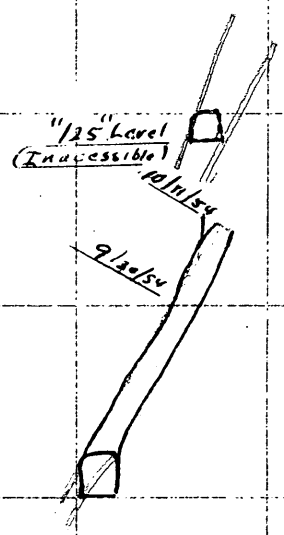
Plutus Mine
(Manganese)
Butte, Silver Bow Co., Montana
(Showing Raise on 200 Level)

DMEA - 2874 - Contract Idm-E-604
1" = 40'
I. G. Irving & R. H. Nelson



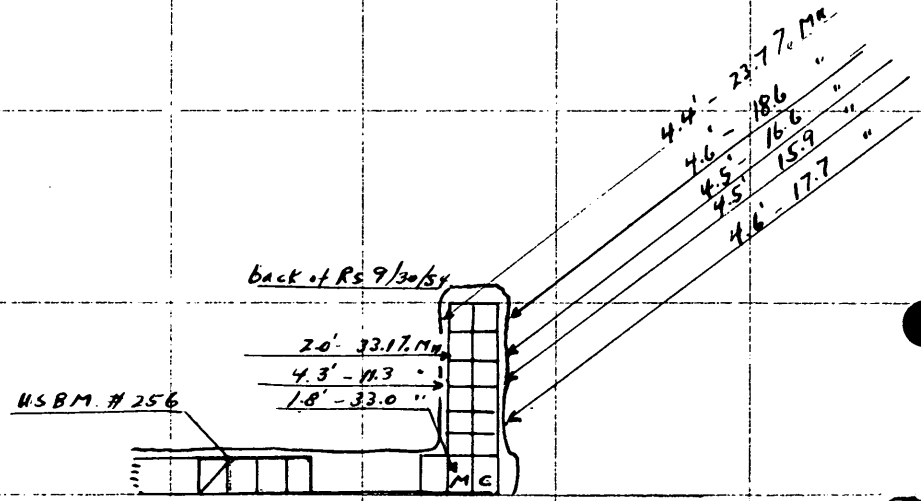
Composite Plan

Note: Elevation of "125" Level is uncertain and may be 25' Higher than shown



Cross Section
Looking West

1" = 40'



Long Section
Looking North

Shipments from Raise -

Interval	L.D.T.	% Mn
0 - 10.5'	44.0	14.5
10.5' - 24.0'	40.0	17.5
24.0 - 35.0'	39.0	17

MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
FEB 5 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1954 Docket No. DMEA 2874 Contract No. Idm-E-604
Operator's Name Irving G. Irving & Robert H. Nelson, Minerals manganese
Address 43 Hirbour Bldg., Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: 75% Amount, $ 19,372.50

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:						WSM
Drilling						
Bulldozing Shaft Rehab.					1277.50	1277.50
Crosscutting St. Cutting		$			1106.70	1106.70
Drifting 25.0' @34.00	850.00	2067.20	$2917.20	850.00	2067.20	2917.20
Timbering Dr. @5.00	125.00	281.50	406.50	125.00	281.50	406.50
(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 *	11.00	0.00	11.00	11.00	-0-	11.00
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$986.00	$2348.70	$3334.70	986.00	4732.90	5718.90

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

Date 1/31/54 *Payee Irving G. Irving and Robert H. Nelson, Partners,

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 739.50

Signature (Authorized Certifying Officer)

Date 2/2/54 Vou. No. 1072 (See other side)

* Nine samples were taken (see sketch) all were assayed for manganese, and two for silver.

* operator should claim $18.00

(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-604 in accordance with the terms of the contract.

Signature (S) Joseph R. Bardill Title Metallurgist Date 2/2/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen W. Zoldok Title Mining Eng. Date 2/2/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

n MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 5 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 195 4 Docket No. DMEA 2874 Contract No. Idm-E-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg., Butte, 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	foot	$850.00	25.0'	$2917.20	85.8'	$34.00	470'	$34.00
xxxxxxx Crosscutting Timber Dr.	"	125.00	25.0'	406.50	81.3'	5.00	470'	5.00
Raising								
Shafts x Repair	"	none	none	1277.50	36.5'	35.00	56'	35.00
xxxx Sta. Cutting Winzes	cu.ft.	"	"	1106.70	892.5'	1.24	1300	1.24
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	one assay	11.00	9	11.00	9	1.22	249	2.00
TOTAL DISTRIBUTED COSTS		$986.00	---	$5718.90				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$986.00	--	$5718.90				$25,830.00

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.

Irving G. Irving and
Robt. H. Nelson, Partners

Date 1/31/54 Operator

Per Irving G. Irving Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

January 31, 1954

NARRATIVE REPORT

Plutus Mine, Butte, Montana
(Exploration Project---DMEA # 2874--Contract # Idm-E-604)
Irving G. Irving & Robert H. Nelson

January -1954--Progress Report

During the month of January, 1954, work on the above contract consisted of 25.0 feet of drifting (with timber) easterly on the Plutus Vein on the so-called 400 level, which is actually 275 feet below the collar, off the Plutus shaft.

More advance was contemplated, but the crew assigned to this work had to be put on the 300 level for necessary stope preparation, for urgent production reasons. Progress during February is expected to be greater. As a matter of fact, with the property rapidly nearing the end of other development work, and the steady production that is expected to follow, time and men will be available for this and the other DMEA contract applied for.

The vein, at the start of this drifting, was approximately five feet wide, but contained only a narrow streak (6") of rhodochrosite, within a well mineralized structure. As drifting progressed (see sketch) this rich streak widened and at 18' it attained a width of 1.5' and assayed 23.8% manganese. The next seven feet of advance saw this high-grade streak narrow again to only four to six inches. This lay in the footwall and was contained in a face that is progressively showing more mineralization, in the form of stringers and blebs of manganese carbonate, between strong clay walls, comprising a structure that is still five feet or more in width.

As a glance at the longitudinal section (which accompanied a previous report) will show, the indicated rake of the ore shoot is such that ore ~~xxx~~ is expected to be encountered in this work within the next twenty or thirty feet.

Respectfully submitted,

I. G. Irving

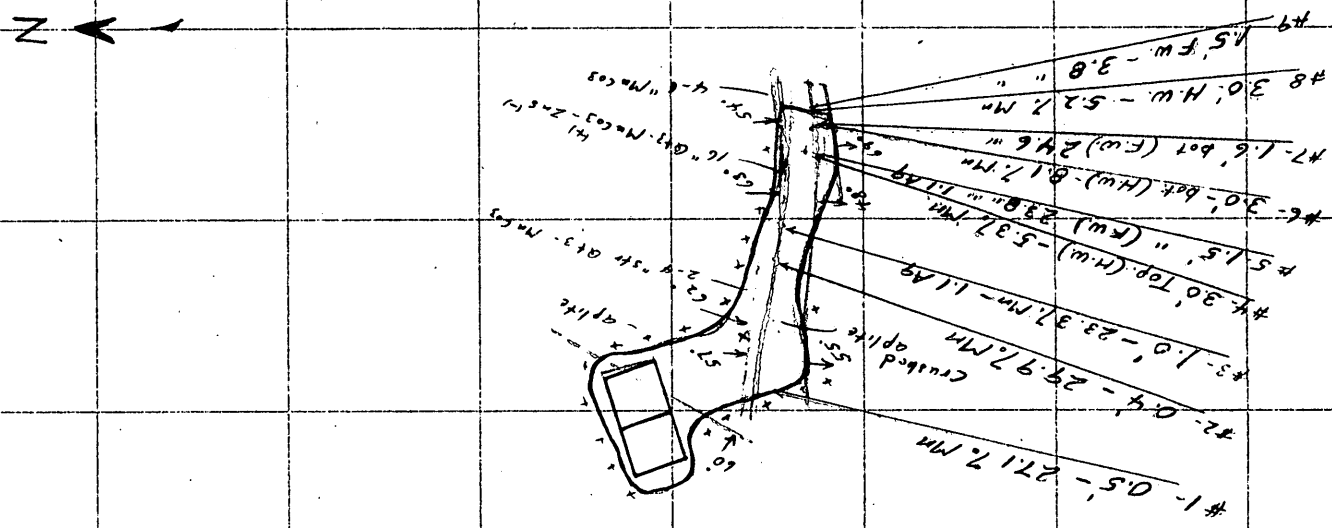
I. G. Irving

COPY

PLUTUS MINE
(Manganese)
Butte, Silver Bow Co., Montana
"400" Level
(Actually 475' below collar)

DMRA-2874- Contract No. LAm-E-304
1" equals 20'

Irving G. Irving and Robert H. Nelson



DMF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 4-30-54.

RECEIVED
JAN 18 1954

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

Month of December, 1953 Docket No. DMEA 2874 Contract No. Mem-E-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg., Butte, Montana
Contract Amount, $25,830.00 Government Participation 75 % Amount, $19,372.50

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:						WSM
Drilling						
xxxx Shaft Repr.	1277.50	none	1277.50			
Bulldozing						
xxxxx Sta. cutting	1115.62	none	1115.62	1106.70		
Drifting	0.00	2067.20	2067.20			
Timbering drift	0.00	281.50	281.50			
(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						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$2393.12	$2348.70	$4741.82	2384.20	2348.70	4732.90

1.24 Cu/ft.

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 1/9/54 *Payee Irving G. Irving and Robert H. Nelson, Partners
Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$1788.15
Signature (Authorized Certifying Officer)
Date 1/13/54 Vou. No. 1042 (See other side)

** Modification agreement allowed --substituting shaft repair for raising @35.00/ft, and station cutting(deducted from raise money)@1.25 cu/ft.

(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. E604 in accordance with the terms of the contract.

Signature /S/ John D. Barkill Title Metallurgist Date Jan 13 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldak Title Mining Engr Date Jan 13-1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1954

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

Month of December 1953 Docket No. DMEA 2374 Contract No. Idm-E-604
Operator's Name Irving G. Irving and Robert H. Nelson, Minerals Manganese
Address 43 Hirbour Bldg., Butte, 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	foot	0.00	none	$2067.20	60.8'	$34.00	470	$34.00
~~Cross cutting~~ Timbering	"	0.00	"	281.50	56.3'	5.00	470	5.00
* Raising shaft repr.	"	$1277.50	36.5'	1277.50	36.5'	35.00	200*	35.00
Shafts								
** ~~Winzes~~ Station cutting	cu.ft	1115.62	892.5	1115.62	892.5	$1.25	**	1.25
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$2393.12	see above	$4741.82				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS		$2393.12	"	$4741.82				$25,830.00

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 1/9/54 Operator Irving G. Irving and Robt. H. Nelson, Partners

Per Irving G. Irving Title Partner

REMARKS: * Modified agreement allowed, wherein shaft repair is substituted for raising at $35.00/ft.
** Modified agreement allowed, wherein station cutting @ $1.25 per cu. ft. is allowed and this money to be deducted from raise money previously allowed in original contract.

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT January 9, 1954

Plutus Mine, Butte, Montana
(Exploration Project; DMEA # 2874; Contract Idm-E-604)
I. G. Irving and Robert H. Nelson

During the month of December, 1953, the work on the above contract consisted of repairing 36½ feet of shaft and cutting a new station on what is called (for signal reasons) the 400 level, of the Plutus Mine, but is actually a level cut at a point 275 feet below the collar of the shaft. This work was done preparatory to drifting easterly on the Plutus Vein on this new horizon, in place of the drifting to the east, originally contemplated in the contract on the 200 level---275 feet vertically above.

The reasons for this modification of the contract were set out in a recent letter to Mr. Weissenborn, of the Spokane office, and gone over in detail with Mr. Kiilsgaard. To reiterate, however, the east face on the 200 level was in waste, and the ore had become oxide, and bulldozing had shown poor exposures on the surface above. It was also evident, as shown on a long section accompanying this letter, that the ore disclosed to the west of the shaft, on the 200 level, had a probable rake downward to the east. If this turns out to be the case the present drifting on the 275 level should encounter ore some 20 to 30 feet east of the station. An advance of eight feet, already made since the first of the year, has already shown some improvement.

The vein was cut about ten feet south of the shaft, and while a strong structure was exposed, it was not ore. See Sketch Map attached. As stated above, the drifting now in progress is expected to reveal ore soon.

While the original contract did not call for any shaft repair, permission to do this and substitute some of the raising allowed (at $35.00 a foot) was granted. An allowance on a cubic foot bais, for station cutting was also given. Actually the station was made small (7.0' x 8.5' x 15.0') and the cubic footage amounted to 892.5 cubic feet.

This additional work, it is understood, does not increase the amount of the contract, but is to be deducted from the amount allowed for raising in the original contract.

See map attached for details of the geology and attached Forms 104 and 104 a, for the cost of the work, at the price we have been informed has been allowed.

Respectfully submitted,

I. G. Irving

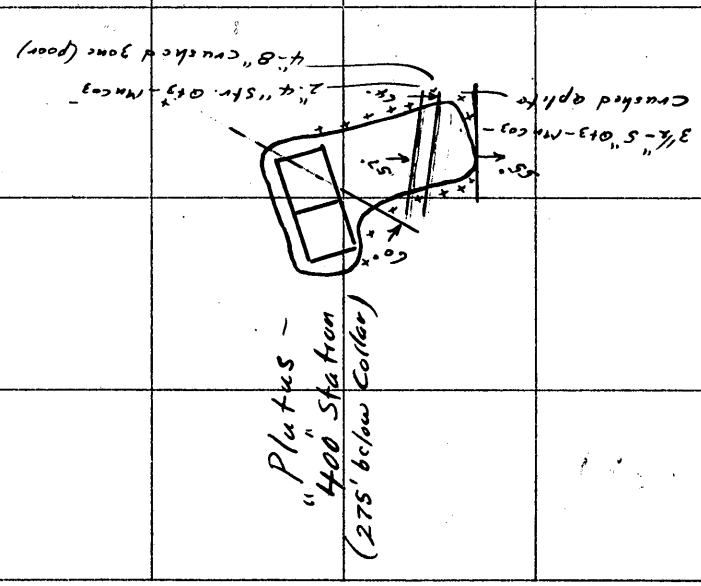
I. G. Irving

COPY

PLUTUS MINE
(Manganese)
Butte, Silver Bow County, Montana
"400" Level
(actually 275' below Collar)
1" - 20'

DMEA No. 2874--Contract Idm-E-604
Irving G. Irving
and
Robert H. Nelson

N



IF-104 (Rev.)
April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1953 Docket No. DMEA # 2874 Contract No. Idm-E-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Mirbour Bldg., Butte, Montana
Contract Amount, $ 25,830.00 Government Participation: 75 % Amount, $ 19,372.50

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:						WSM
Drilling						
Bulldozing						
Crosscutting						
Drifting 27.8' @ 34.00	$945.20	$1,122.00	$2,067.20			
35.3' @ Timbering 5.00	176.50	105.00	281.50			
(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						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1,121.70	$1227.00	$2348.70	1121.70	1227.00	2348.70

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

Date 11/30/53 *Payee Irving G. Irving & Robert H. Nelson, Partners.

Per Irving G. Irving Title Partner.

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

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

(Instructions on reverse)

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

$ 841.28

Signature
(Authorized Certifying Officer)

Date 12/30/53 Vou. No. 994
(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. E604 in accordance with the terms of the contract.

Signature /S/ John D Bardell Title Metallurgist Date Dec 1, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Eng. Date Dec 4-1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

m MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1953 Docket No. DMEA 2874 Contract No. Idm-5-604
Operator's Name Irving G. Irving & Robert H. Nelson Minerals Manganese
Address 43 Hirbour Bldg., Butte, 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.	$945.20	27.8'	$2067.20	60.8'	$34.00	470	$34.00
Tirbour drift Crosscutting	"	176.50	35.3'	281.50	56.3'	5.00	470	5.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		$1121.70	27.8 35.3	$2348.70				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$1121.70	"	$2348.70				$25830.00

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

Date 11/30/53 Operator Irving G. Irving and Robert H. Nelson, Partners

Per Irving G. Irving Title Partner

Remarks:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT

November 30, 1953

Plutus Mine, Butte, Montana
(Exploration Project, Contract No. Idp-E-604)
DMEA # 2874
(Irving G. Irving & Robert H. Nelson)

Exploration work on the captioned DMEA project, and contract, continued during the month of November, 1953.

At the end of the previous month, the drift west had encountered strike-faulted, low grade material. An additional advance of only 11.4 feet was made in this heavy ground, and in addition the timber was brought up to within a foot or so of the face. This required putting in timber for a linear distance of 21'. The ground above the drift sets had to be cribbed and blocked tightly, to prevent further sloughing.

The face of the west drift (see map) is still in strike-faulted, and narrow, low grade material. Ahead, on the surface, however, is the soecalled 20-foot shaft which shows near its bottom about 3.6 feet of material averaing 16.3% manganese. While this material is oxide, and not ore as such, at that grade, it is hoped that material as good, or somewhat better, is encountered in the carbonate zone, which would be ore.

Work was stopped temporarily in this heading, during the month, to get a stope started (for much-needed production) about 100 feet back of the face, in what was hoped to be minable carbonate ore of fair grade. At several place the material in the back of this stope, on the first floor, turned to oxide and lower grade. Continuation of the west drift, next month, is planned.

The east face, on the 200 level, was started during the month and advanced 16.4 feet, with 14.3 feet of it timbered. This face started in relatively low-grade carbonate ore, but quickly deteriorated into a narrow, low-grade omidized vein. The present face shows no minable ore on the structure.

Bulldozing ahead, to the east, on the surface (done after our application was submitted) reveals only very lean vein. For this reason and in combination with the lean face below, it is thought that a modification of our contract, to allow this easterly drifting to be done at a lower horizon (see indicated rake to oreshoot on maps accompanying this report) would be definitely to the advantage of not only the operators, but also the government.

The matter mentioned in the paragraph above will be taken up in my forthcoming early visit to Spokane.

During the month, the stoping produced the following:

Lot #13---31.0LDT---16.1%Mn--0.9oz Ag.
Lot #14---34.6LDT---12.0%Mn--0.6oz Ag
Lot #15---35.2LDT---17.7%Mn--0.9oz Ag

Respectfully submitted,

I. G. Irving, Mgr.

COPY

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

Budget Bureau No. 42-R1038.3
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1953 Docket No. DMEA 2874 Contract No. Idm-E-604
Operator's Name Irving G. Irving & Robt. H. Nolson Minerals manganese
Address 43 Hirbour Bldg., Butte, Montana
Contract Amount, $5,830.00 Government Participation 75 % Amount, $9,372.50

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:						WSA
Drilling						
Bulldozing						
Crosscutting						
Drifting 33' @ 34.00	1122.00	0.0	1122.00			
21' Tibbering @ 5.00 per ft	105.00	0.00	105.00			
(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						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1227.00	0.00	1227.00	1227.00		1227.00

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

Date 11/2/53 *Payee Irving G. Irving and Robert H. Nolson, Partners

Per Irving G. Irving Title Partner

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

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

(Instructions on reverse)

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

$ 920.25

Signature [signature] (Authorized Certifying Officer)

Date 11/12/53 Vou. No. 962

(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. F-604 in accordance with the terms of the contract.

Signature /S/ John D Bardell Title Metallurgist Date Nov 5-53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Eng Date Nov 5-53

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

Defense Minerals Administration

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1953 Docket No. DMEA 2874 Contract No. Icm-E-604

Operator's Name Irving S. Irving & Robt. H. Nelson Minerals manganese

Address 43 Hirbour Bldg., Butte, 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	foot	$1122.00	33'	$1122.00	33'	$34.00	470	$34.00
~~Drifting~~ Timbering drift	"	105.00	21'	105.00	21'	5.00	470	5.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$1227.00	33'+21'	$1227.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1227.00	"	$1227.00				$25,030.00

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

Date 11/2/53 Operator Irving S. Irving & Robt. H. Nelson, Partners

Per Irving S. Irving Title Partner

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT

November 2, 1953

Plutus Mine, Butte, Mont.
Exploration Project Contract---No. Idm-E-604
DMEA # 2874
(Irving G. Irving & Robt. H. Nelson)

Exploration work on the captioned DMEA project(and contract) got under way on October 2, 1953. The contract, as will be remembered, involves 270 feet of drifting to the west, 200 feet of drifting to the east and 200 feet of raising on the Plutus Vein, on the 200 level.

It was decided to drift west first and the work was started on a face that showed fair ore.

A total advance of 33 feet was achieved---21 feet of which was timbered. From the appearance of the ground, and the strong vein structure with attendant heavy clays, it is expected that the entire drift, throughout the contract will require timber.

The advance was relatively small, during the month, because the work had to be interrupted to get a raise started--about 80 feet back of the present face--for production purposes.

As will be seen on the accompanying Geologic and Assay Plan Map, a strong vein structure is being developed. The first two rounds produced ore of good grade and the material was used to start a shipment, designated as Plutus Lot 12. The remaining advance was in lower grade material, however, which when added to the shipment brought the grade of the final lot down considerably. It contained sufficient manganese, however, to be classified as development ore and the approximately 120 LDT produced averaged 11.3% Mn. The calcium and magnesium credit, allowed in the purchase schedule, has the effect of raising material of this grade to approximately 12.5%, which is acceptable at the depot and will return about six dollars and fifty cents a ton.

A cut sample taken at 27 feet showed 4.0 feet of 8.1% Mn in a very strong vein structure.

On the surface, about 80 feet ahead of this face, is the so-called "Twenty-Foot-Shaft" which reveals about four feet of ore containing about 17.0% Mn. For this and other reasons it is expected that the drift will come into commercial ore again, in a short distance.

The advance in the west drift is being continued, and it is planned to start the drift east in a few days.

Respectfully submitted,

I. G. Irving

I. G. Irving

COPY

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

OFFICIAL BUSINESS

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

OFFICIAL BUSINESS

Alma 2824
Adm. 6604

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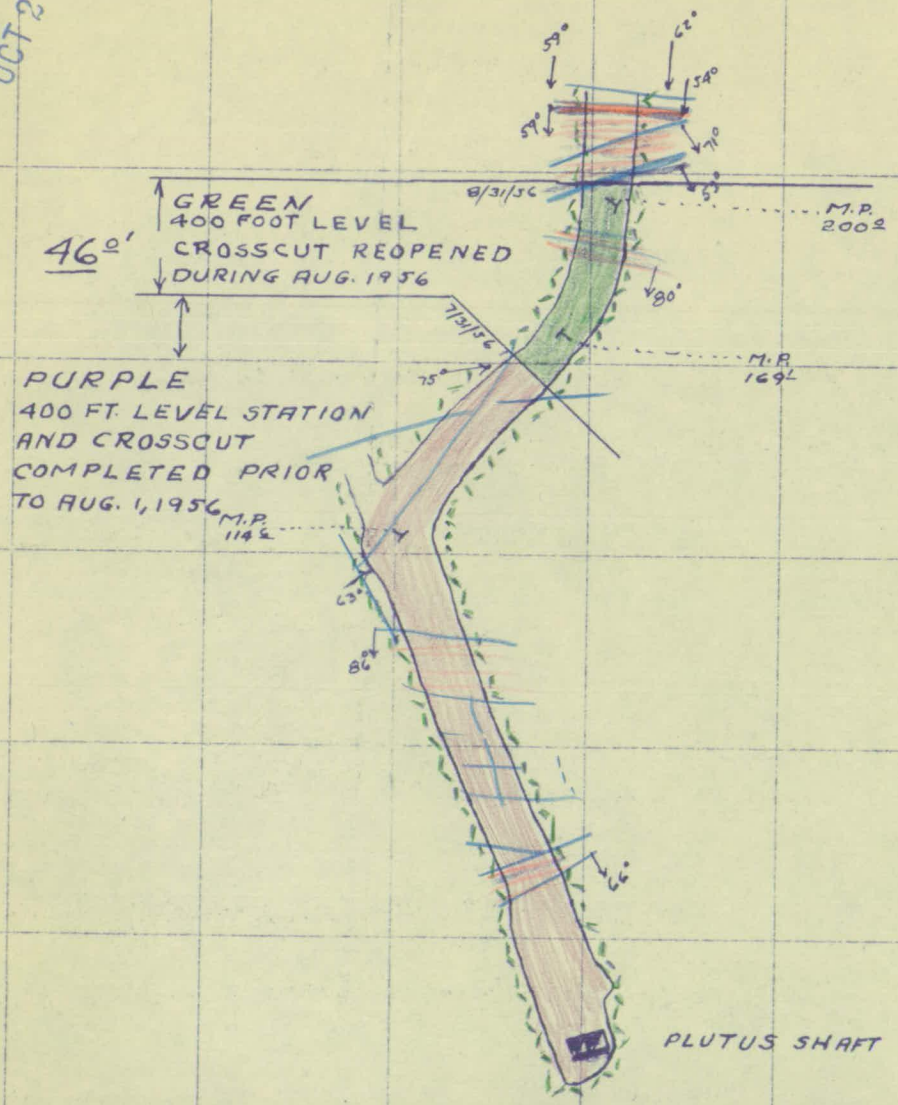
OCT 22 1956

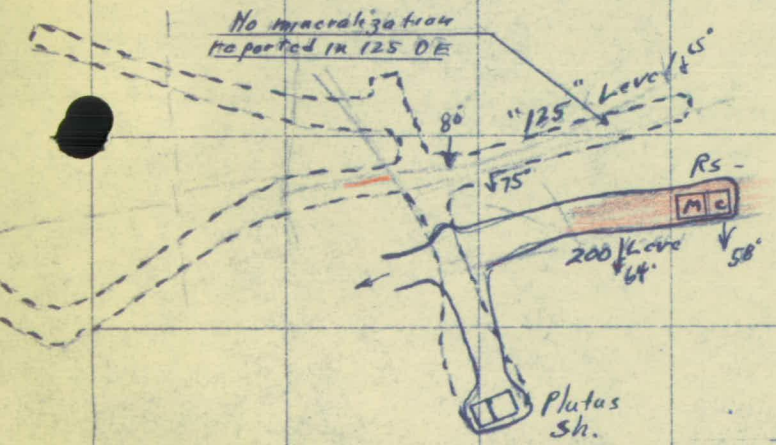


N

400 FT. LEVEL
NORWICH MINE
1" = 40'
D.M.E.A. Docket #2874 Contract IDM-E-604
I.G. IRVING & ROBERT H. NELSON

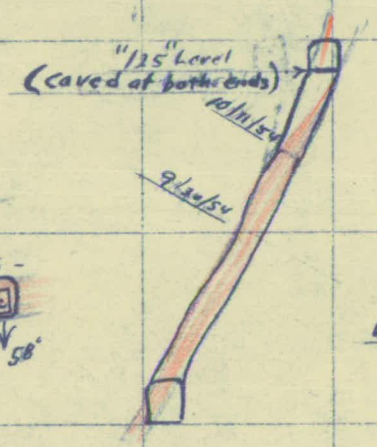
Plutus Mine
(Manganese)
Butte, Silver Bow Co., Montana
(Showing Raise on 200 Level)

DMEA - 2874 - Contract Idm-E-604
1" = 40'
I. G. Irving & R. H. Nelson



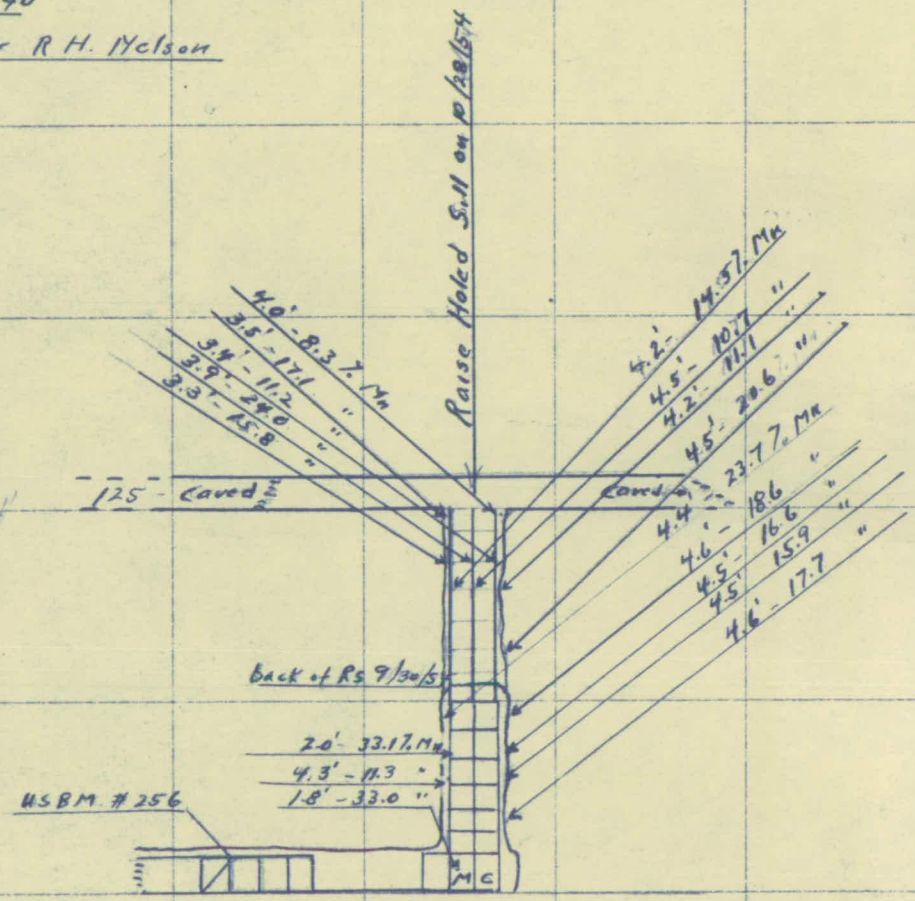
Composite Plan

Note: Elevation of "125" Level is uncertain and may be 25' Higher than shown



Cross Section
Looking West

1" = 40'



Long Section
Looking North

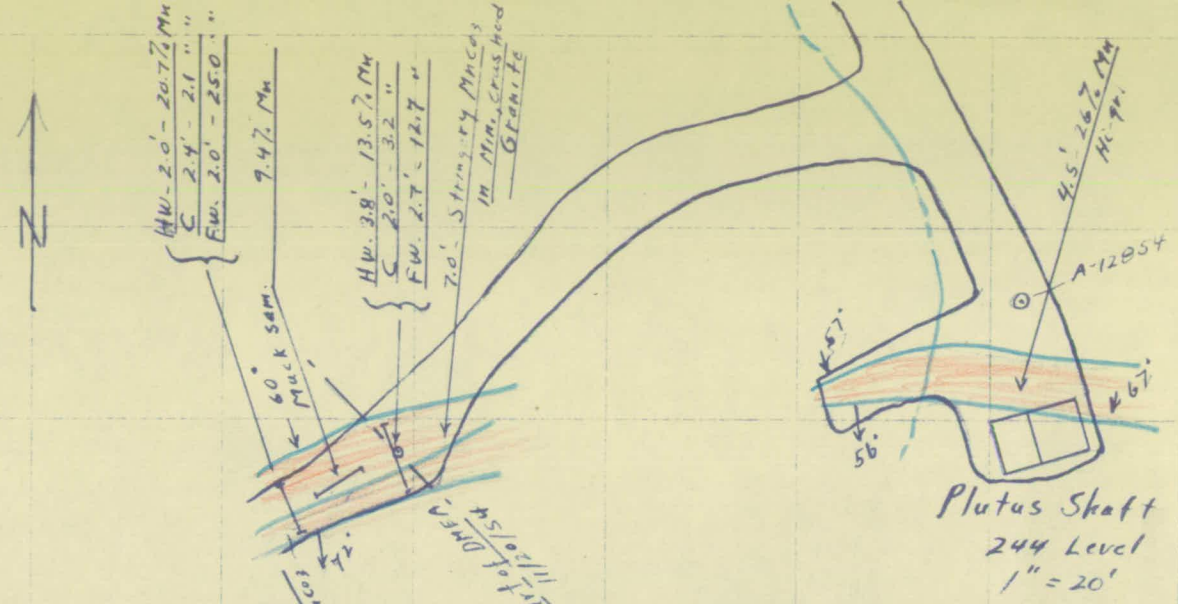
Shipments from Raise -

Interval	L.D.T.	% Mn
0 - 10.5'	44.0	14.5
10.5' - 24.0'	40.0	17.5
24.0 - 35.0'	39.0	17.6
35.0 - 72.0	none	11.8

Plutus Mine
(Manganese
Butte, Silver Bow Co, Montana
(Showing 244 Level Drift west)

DMEA - 2874 - Contract - Idm - E 604
1" = 20'

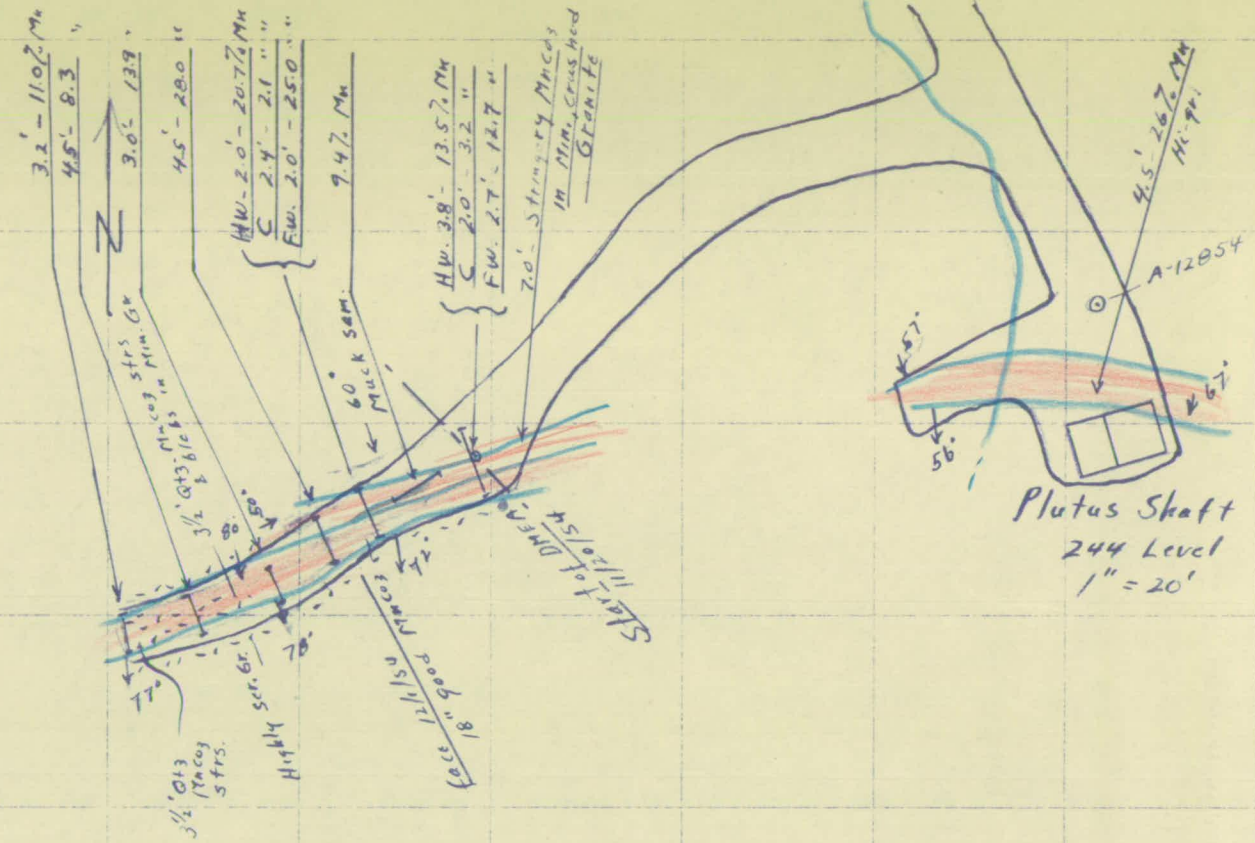
I. O. Irving & R. H. Nelson



Plutus Mine
(Manganese
Butte, Silver Bow. Co, Montana
(Showing 244 Level Drift west)

DMEA - 2874 - Contract - Idm-F-604
1" = 20'

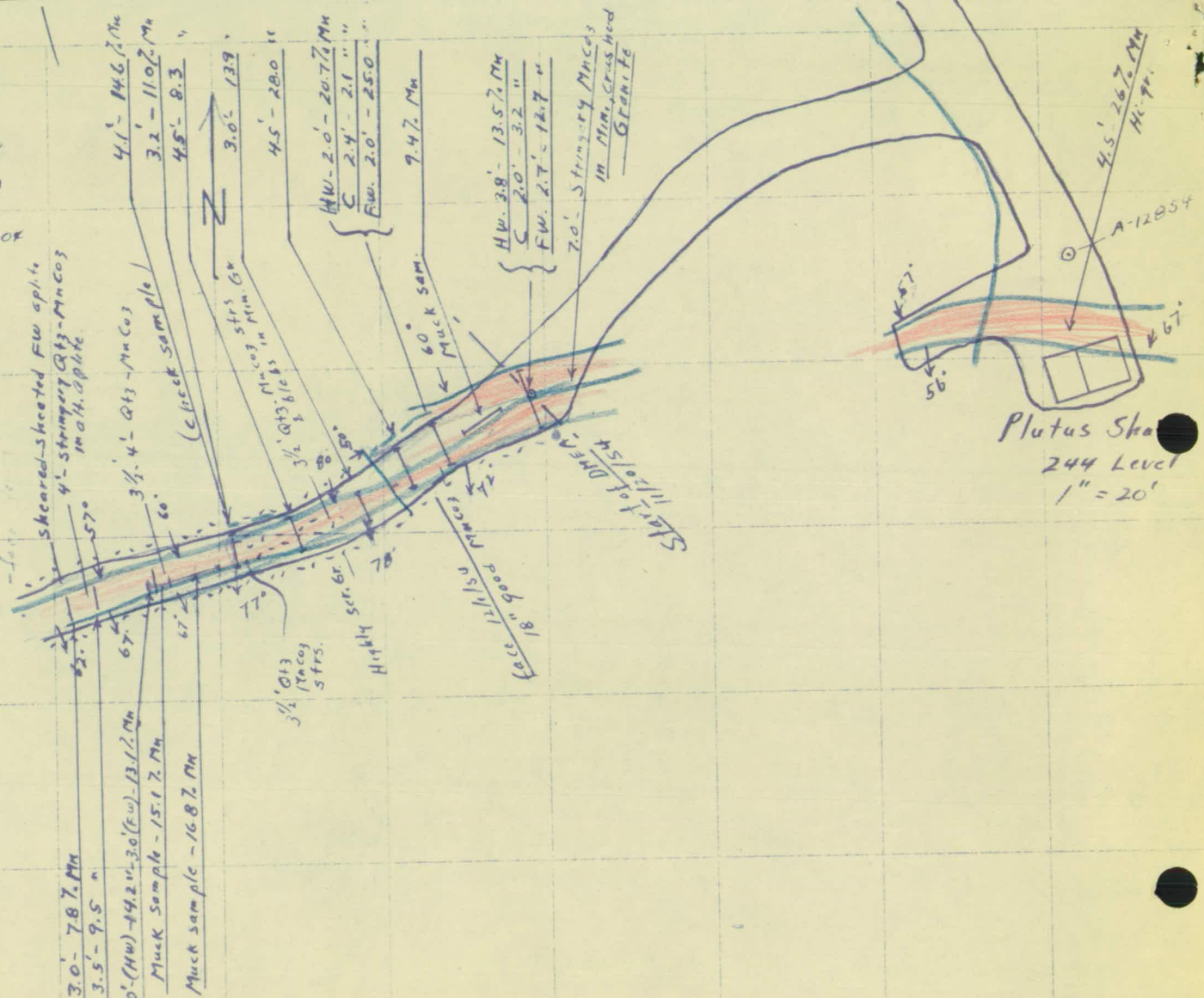
I. G. Irving & R. H. Nelson



Plutus Mine
(Manganese
Butte, Silver Bow Co, Montana
(Showing 244 Level Drift west)

DMEA - 2874 - Contract - Idm-E-60x
1" = 20'

I. O. Irving & R. H. Nelson



Plutus Sho
244 Level
1" = 20'

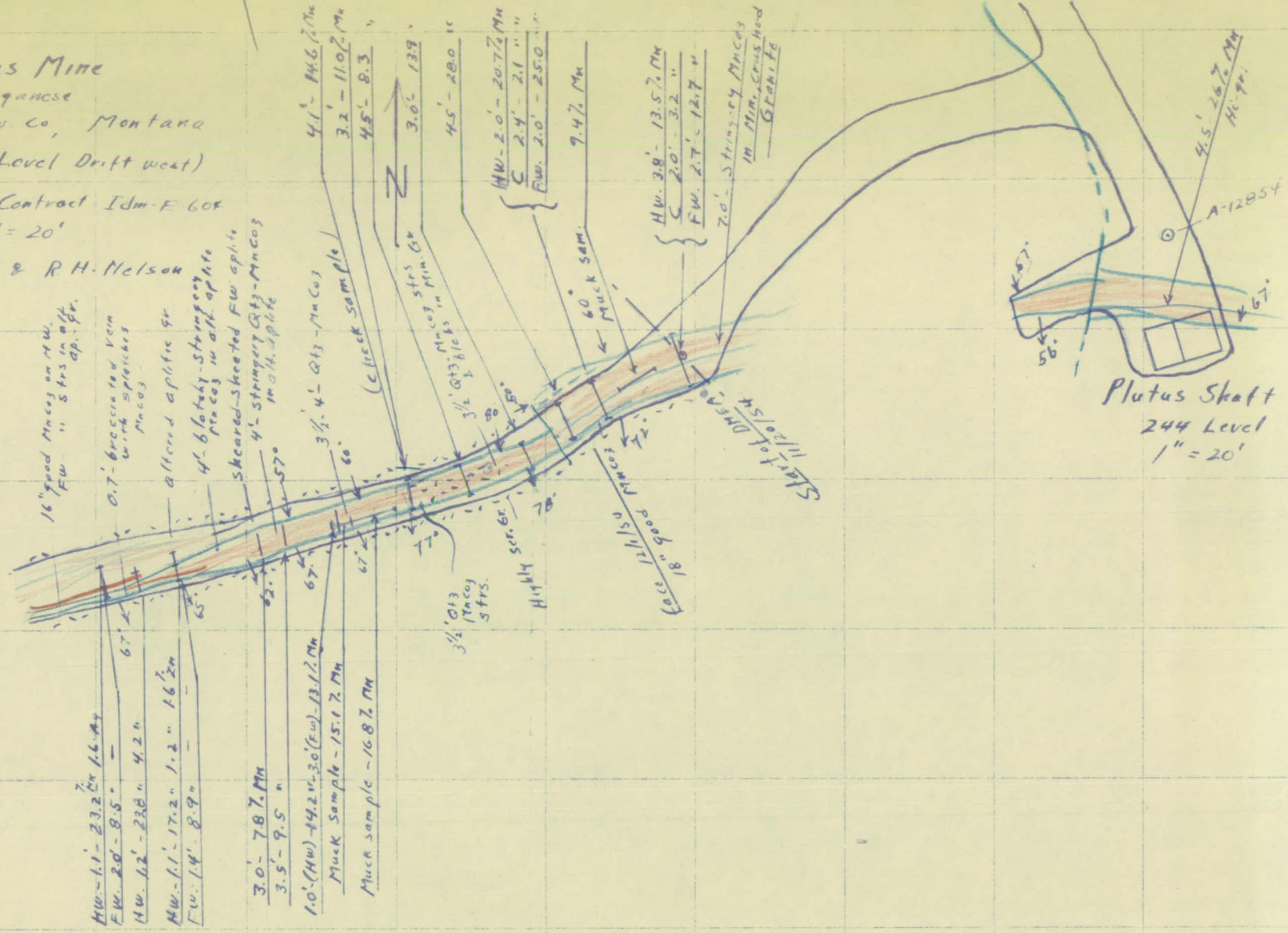
A
Shipment of
41.1 LDT - 16.0% Mn
resulted from
advance from
38' to 61'

DEPARTMENT OF THE INTERIOR
Leasing Minerals Administration
RECEIVED
FEB 17 1955

Plutus Mine
(Manganese
Butte, Silver Bow Co., Montana
(Showing 244 Level Drift west)

DMEA - 2874 - Contract Idm-F 605
1" = 20'

T. G. Irving & R. H. Nelson



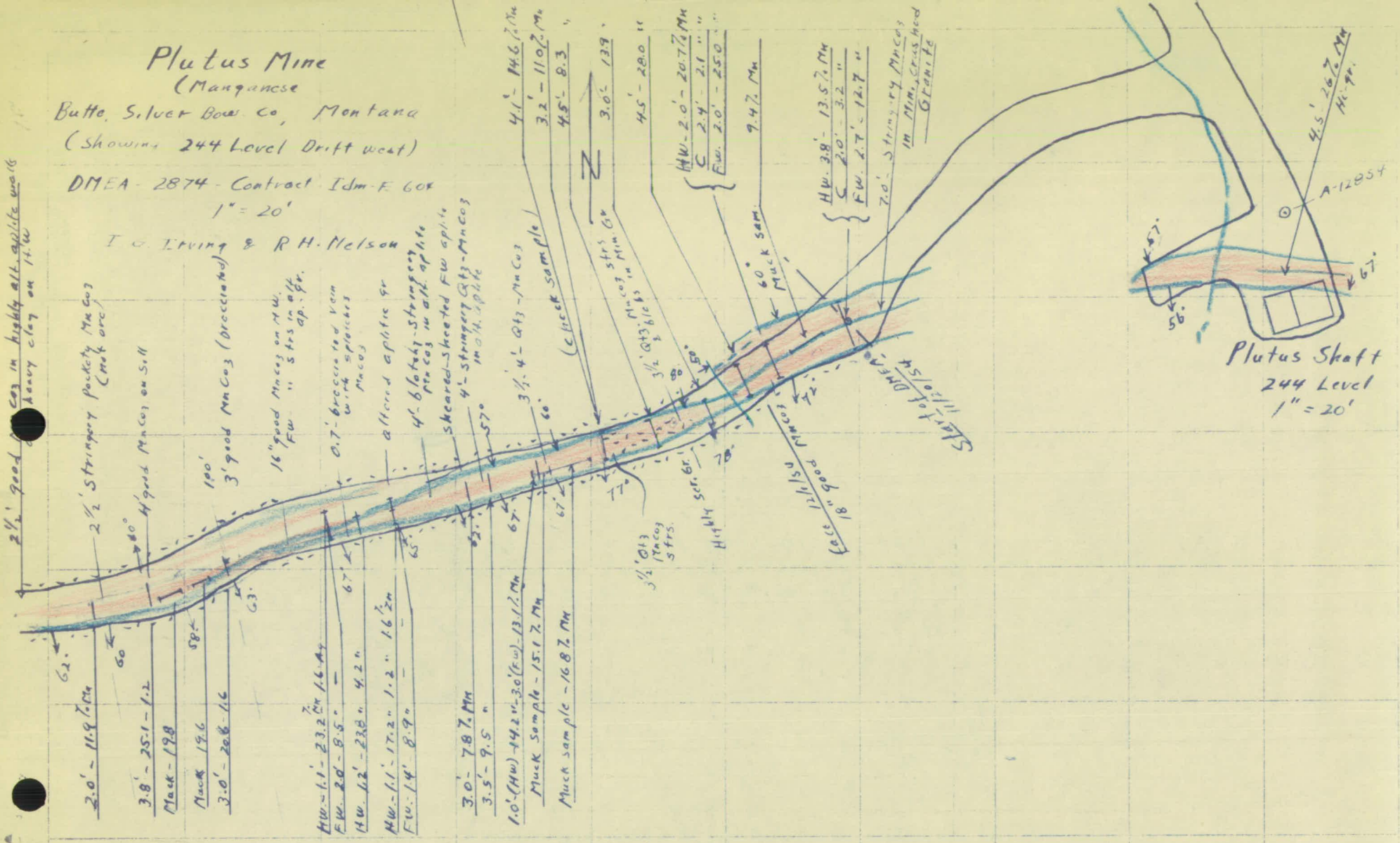
A
Shipment of
41.1 LDT - 16.0% Mn
resolted from
advance from
38' to 61'

DEPARTMENT OF THE
Defense Minerals Admin
RECEIVED
MAR 10 1955

Plutus Mine
(Manganese
Butte, Silver Bow Co, Montana
(Showing 244 Level Drift west)

DMEA - 2874 - Contract Idm-F 60x
1" = 20'

I. C. Irving & R. H. Nelson



A
Shipment of
41.1 LDT - 16.0% Mn
resolted from
advance from
38' to 61'

Plutus Mine
(Manganese)

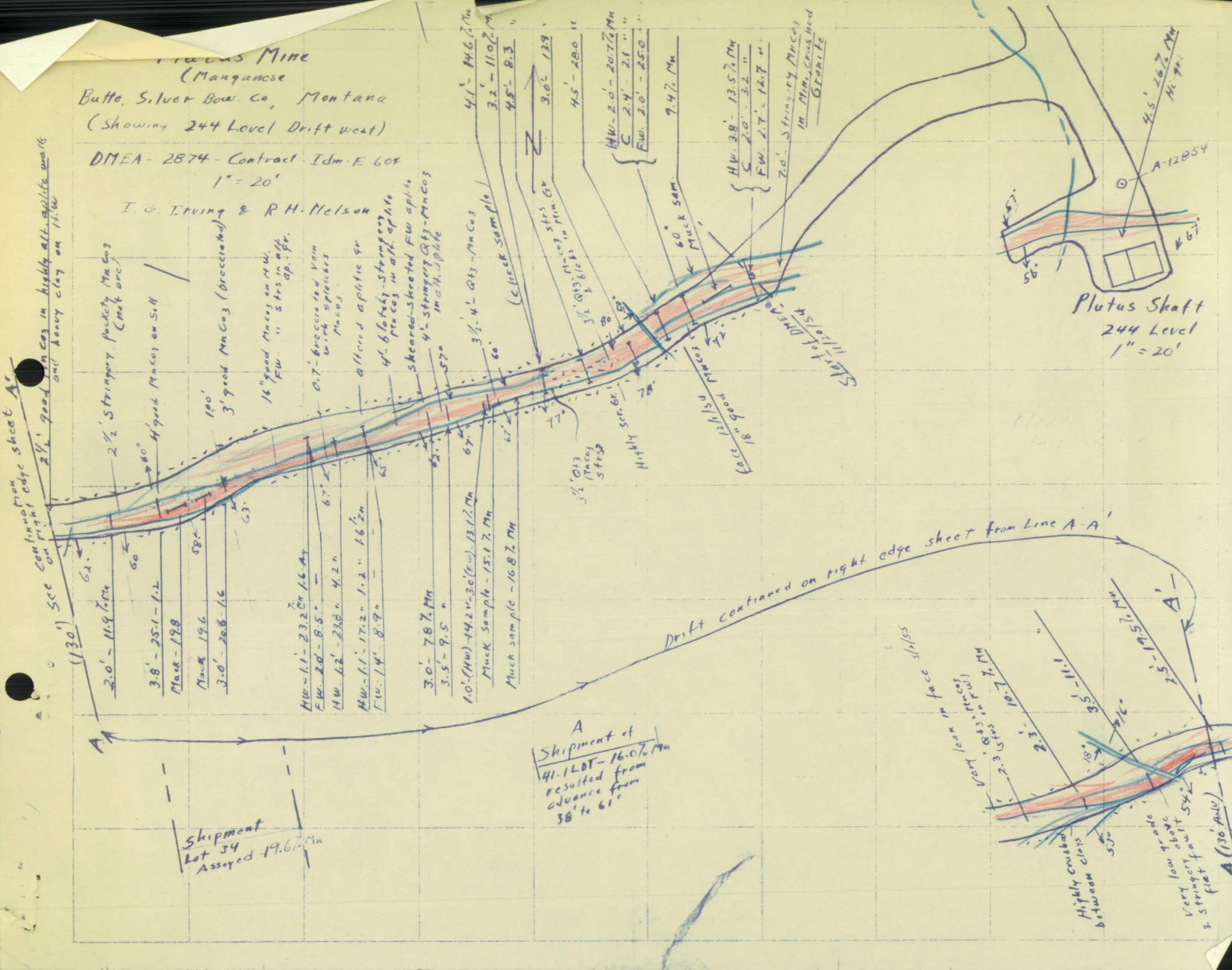
Butte, Silver Bow Co, Montana

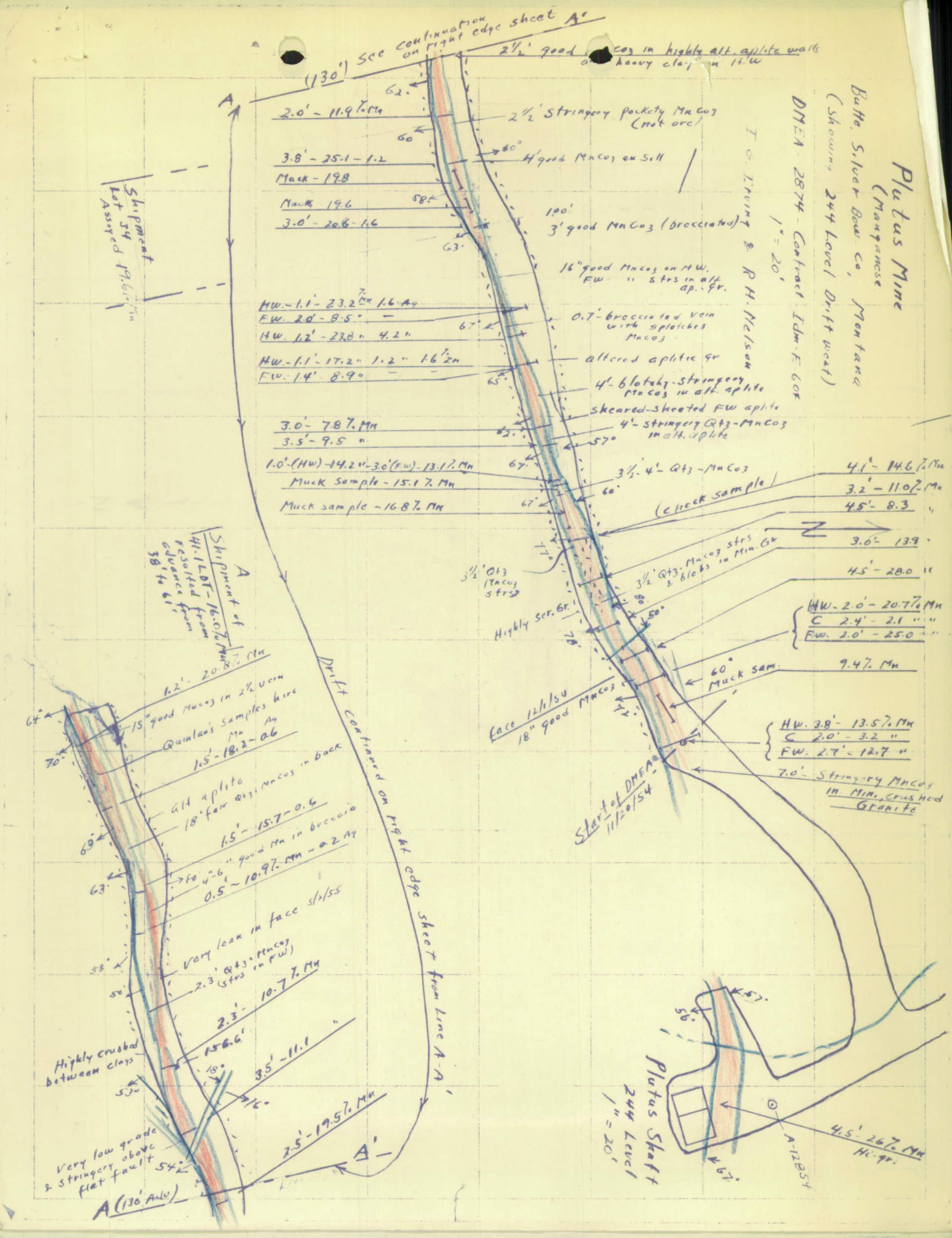
(Showing 244 Level Drift west)

DMEA - 2874 - Contract - Idm-E 60%

1" = 20'

I. G. Irving & R. H. Nelson




Plutus Mine
(Manganese)
Butte, Silver Bow Co., Montana
(Showing 244 Level Drift west)
DMEA 2874 - Contract Idm-E 60K
1" = 20'
T. C. Irving & R. H. Nelson
See continuation on right edge sheet A'
(130') 2½' good MnCo3 in highly alt. aplite walls
heavy clay in H.W.
2.0' - 11.9% Mn
2½' stringery pockety MnCo3 (not ore)
3.8' - 25.1 - 1.2
4' good MnCo3 on S.W.
Mack - 19.8
Mack 19.6
3.0' - 20.6 - 1.6
3' good MnCo3 (brecciated)
16" good MnCo3 on H.W.
FW " strs in alt ap. gr.
HW. - 1.1' - 23.2% Mn 1.6 Ag
FW. 2.0' - 8.5 " —
HW. 1.2' - 23.8 " 4.2 "
HW. - 1.1' - 17.2 " 1.2 " 1.6% Zn
FW. 1.4' - 8.9 " — —
0.7' - brecciated vein with splotches MnCo3
altered aplite gr
4' - blotchy - stringery MnCo3 in alt. aplite
sheared - sheeted FW aplite
4' - stringery Qtz - MnCo3 in alt. aplite
3.0' - 7.8% Mn
3.5' - 9.5 "
1.0' (HW) - 14.2 " - 3.0' (FW) - 13.1% Mn
Muck Sample - 15.1% Mn
Muck sample - 16.8% Mn
3½' - 4' - Qtz - MnCo3
(check sample)
4.1' - 14.6% Mn
3.2' - 11.0% Mn
4.5' - 8.3 "
3.0' - 13.9 "
4.5' - 28.0 "
3½' Qtz MnCo3 strs
3½' Qtz - MnCo3 strs & blebs in Min. Gr
Highly ser. Gr.
HW - 2.0' - 20.7% Mn
C 2.4' - 2.1 " "
FW. 2.0' - 25.0 " "
60° Muck sam.
9.4% Mn
face 12/1/50
18" good MnCo3
HW. 3.8' - 13.5% Mn
C 2.0' - 3.2 "
FW. 2.7' - 12.7 "
7.0' - Stringery MnCo3 in Min. Crushed Granite
Start of DMEA 11/20/54
Shipment Lot 34 Assayed 19.6% Mn
Shipment of 41.1 LDT - 16.0% Mn resolved from advance from 38' to 61'
1.2' - 20.8% Mn
15" good MnCo3 in 2½' vein
Quinlan's Samples here
Mn Ag
1.5' - 18.2 - 0.6
Alt aplite
18" fair Qtz MnCo3 in back
1.5' - 15.7 - 0.6
4'-6" good Mn in breccia
0.5 - 10.9% Mn - 0.2 Ag
Very lean in face 5/2/55
2.3' Qtz MnCo3 (strs in FW)
2.3' - 10.7% Mn
1.5 - 6.6'
3.5' - 11.1 "
Highly crushed between clays
2.5' - 19.5% Mn
Very low grade & stringery above flat fault
Drift continued on right edge sheet from Line A-A'
A (130' Alu)
A'
Plutus Shaft
244 Level
1" = 20'
4.5' - 26% Mn
Hi-gr.
A-12054

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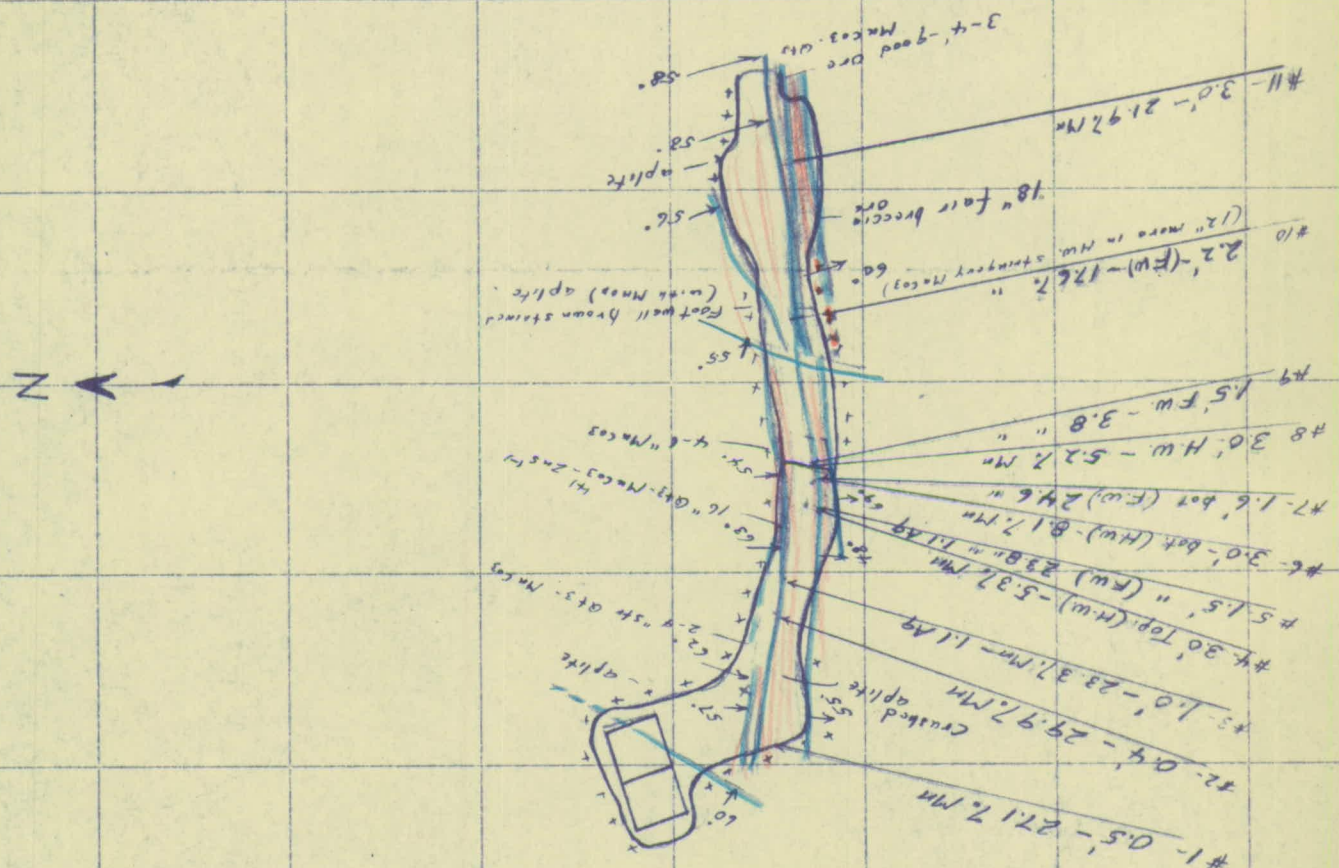
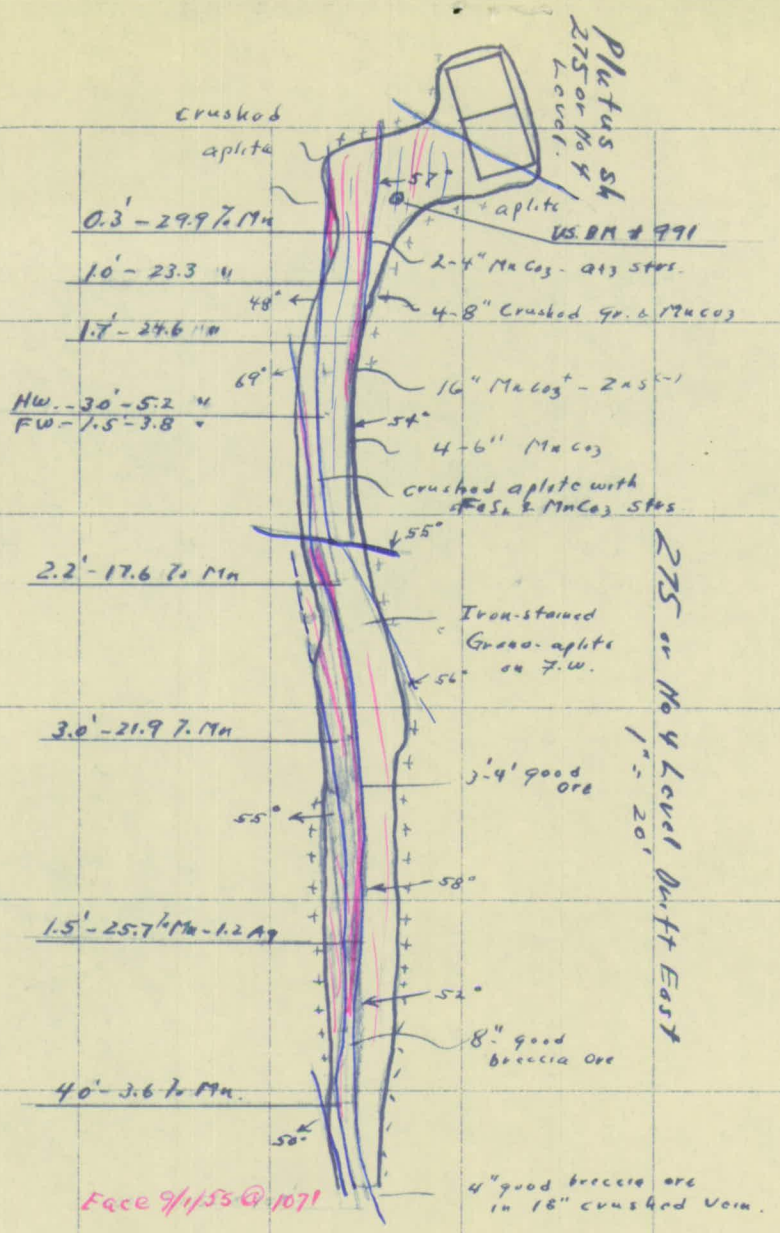
JUL 1 1 1955

PLUTUS MINE
(Manganese)
Butte, Silver Bow Co., Montana
"400" Level
(Actually 275' below collar)

DMEA-2874- Contract No. Lam-E-604
1" equals 20'

Irving G. Irving and Robert H. Nelson





Plutus Mine
DMEA - 2874
Contract - Kim - E-604
I. G Irving & RH Nelson
43 Hibbert Bldg. Butte, Mont.
1" = 20'

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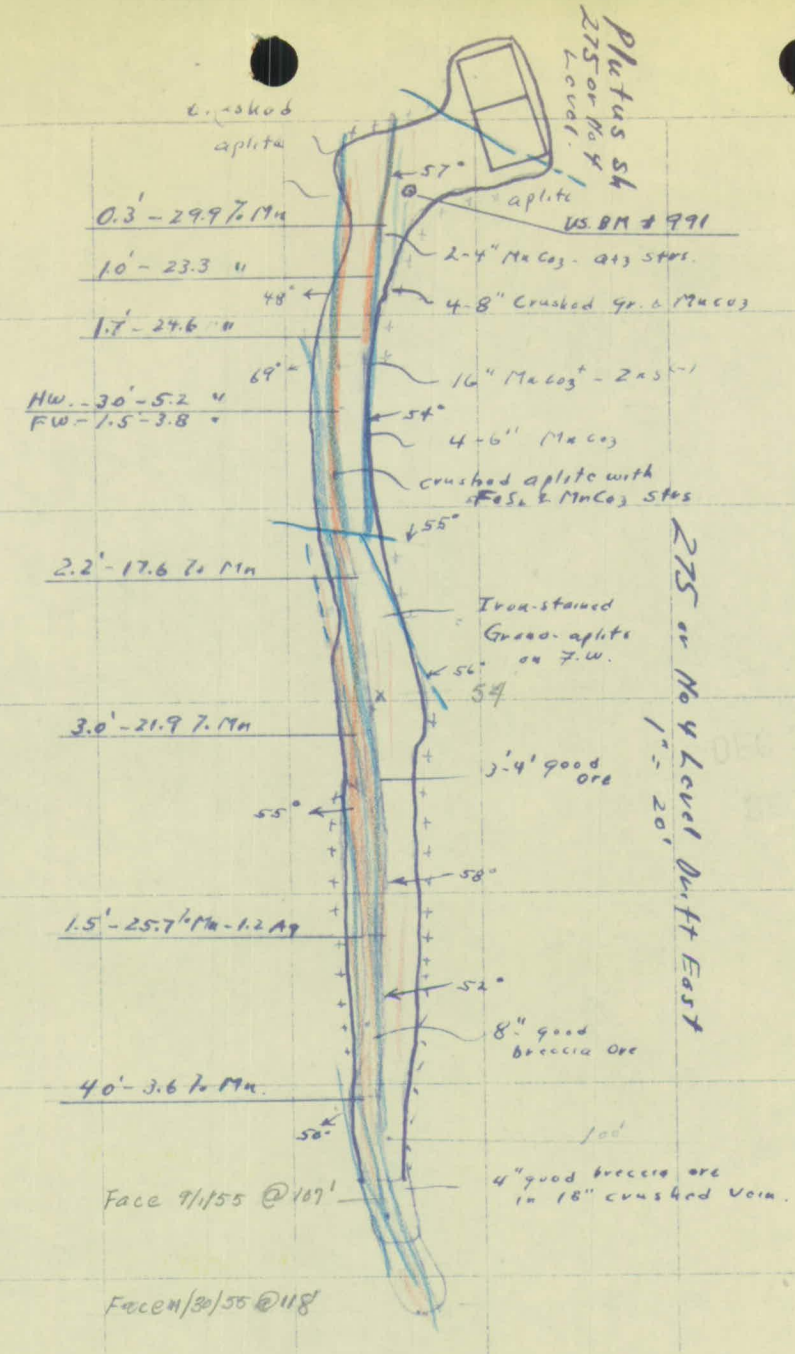
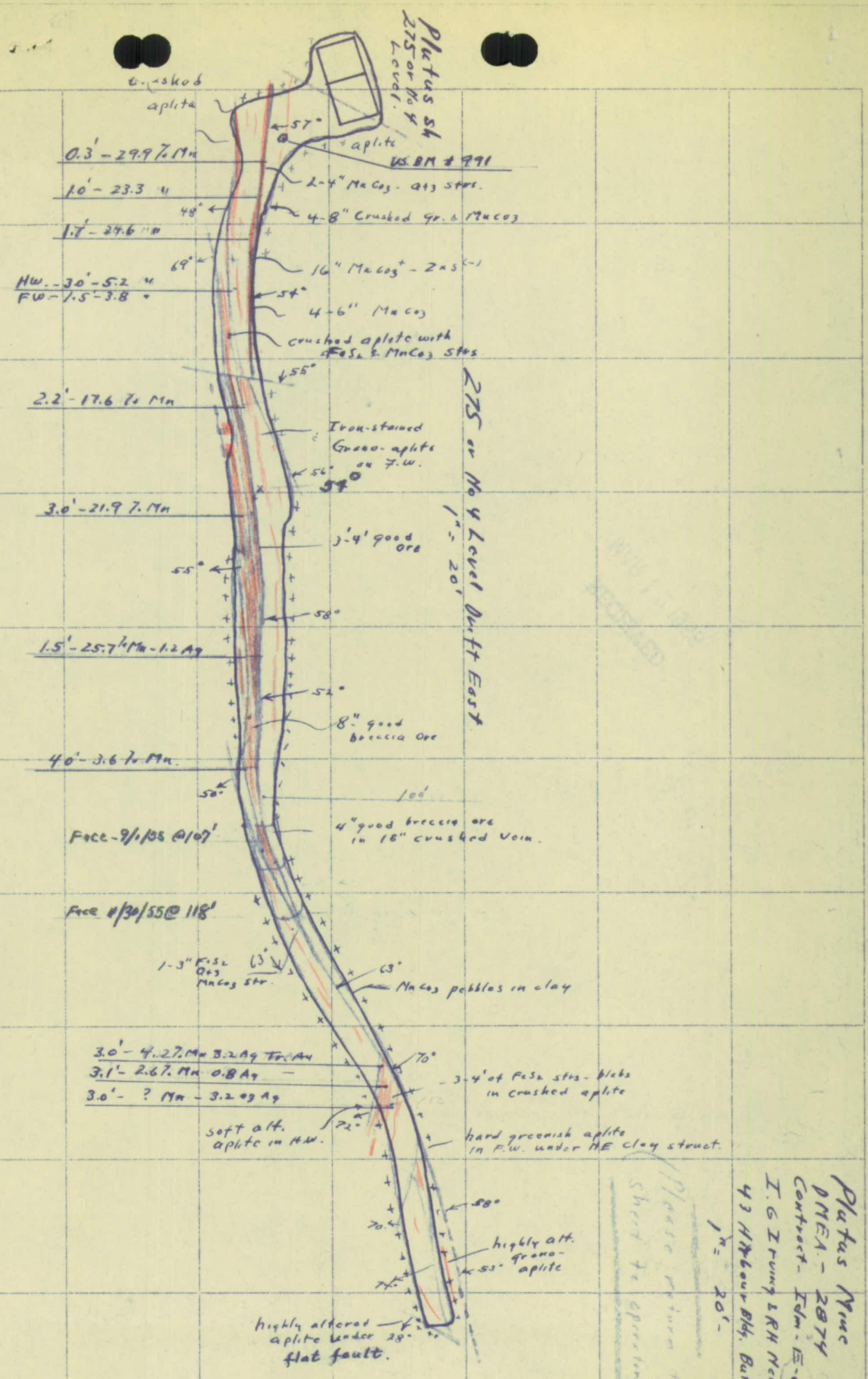
SEP 1 9 1955



Plutus Mine
DMEA - 2874
Contract - Idm - E-604
I. G. Irving & RH Nelson
43 Hibbour Blk. Butte, Mont
1" = 20'

RECEIVED
DEC 1 2 1955


Plutus 54
275 or No 4 Level.
aplite
57°
aplite
VS BM # 991
0.3' - 29.9 % Mn
1.0' - 23.3 "
2-4" MnCo3 - Qtz stks.
48°
4-8" Crushed Qtz. & MnCo3
1.7' - 24.6 "
69°
16" MnCo3 + - 2 x 5 (-)
HW. - 3.0' - 5.2 "
FW - 1.5' - 3.8 "
54°
4-6" MnCo3
crushed aplite with FeS2 & MnCo3 stks
55°
2.2' - 17.6 % Mn
Iron-stained Grano-aplite on F.W.
56°
57°
3.0' - 21.9 % Mn
3-4' good ore
55°
58°
1.5' - 25.7 % Mn - 1.2 Ag
52°
8" good breccia ore
4.0' - 3.6 % Mn.
50°
100'
4" good breccia ore in 18" crushed vein.
Face - 9/1/35 @ 107'
Face 11/30/35 @ 118'
1-3" FeS2 Qtz MnCo3 str.
63°
63°
MnCo3 pebbles in clay
3.0' - 4.2 % Mn 3.2 Ag Tr. Au
3.1' - 2.6 % Mn 0.8 Ag —
3.0' - ? Mn - 3.2 oz Ag
70°
3-4' of FeS2 stks - blebs in crushed aplite
soft alt. aplite in HW.
72°
hard greenish aplite in F.W. under HE clay struct.
58°
70°
highly alt. grano-aplite
53°
74°
highly altered aplite under 28° flat fault.
275 or No 4 Level Butt East
1" = 20'
Plutus Mine
DNEA. - 2874
Contract - Idm. - E - 604
I. G. Irving & R.H. Nelson
43 Harbour Blk. Butte, Mont.
1" = 20'

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MAR 12 1956

NORWICH MINE

(D.M.E.A. 2874) I.D.M.E.609

400 FT. LEVEL

(395' BELOW COLLAR)

RED = VEIN

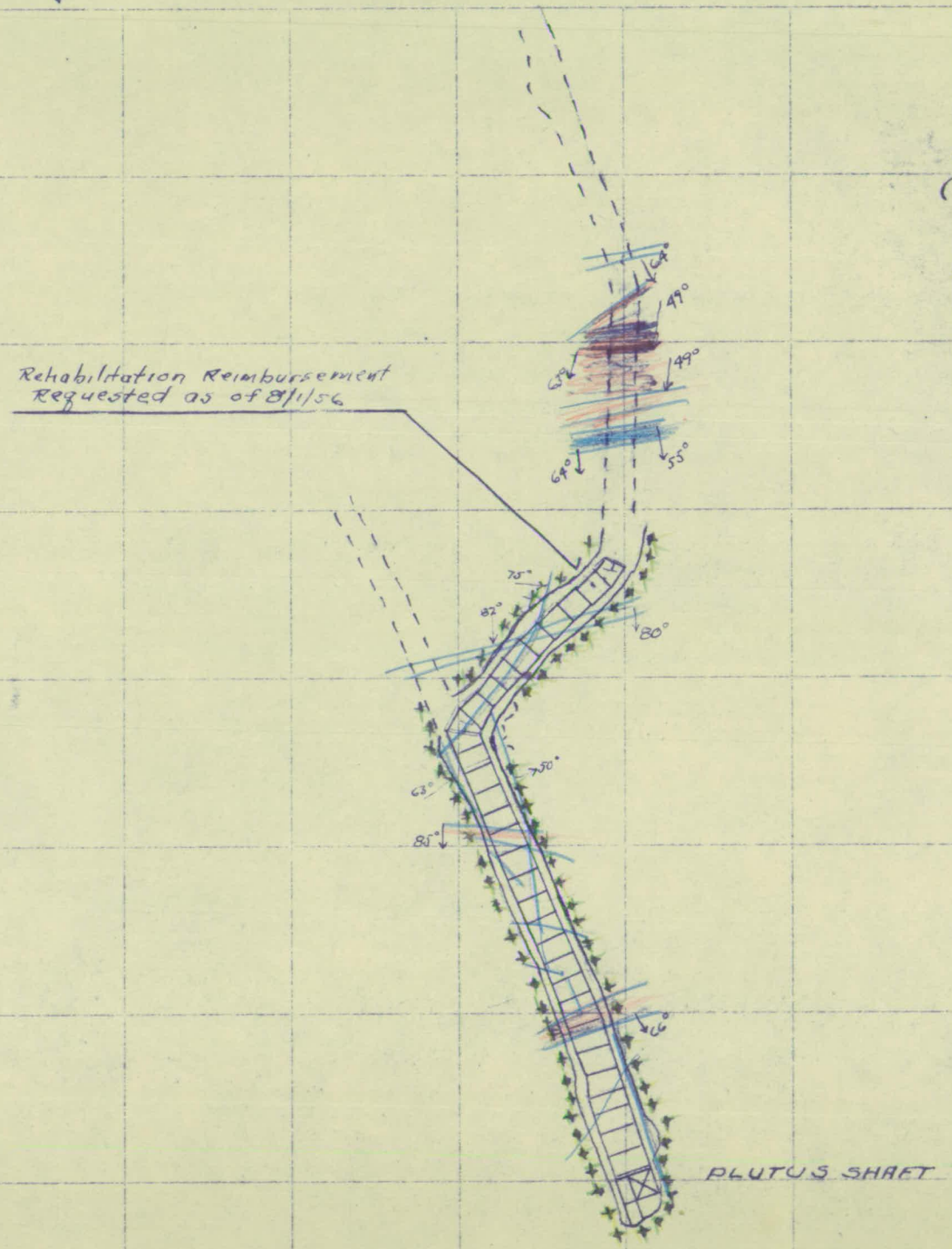
BLUE = FAULT

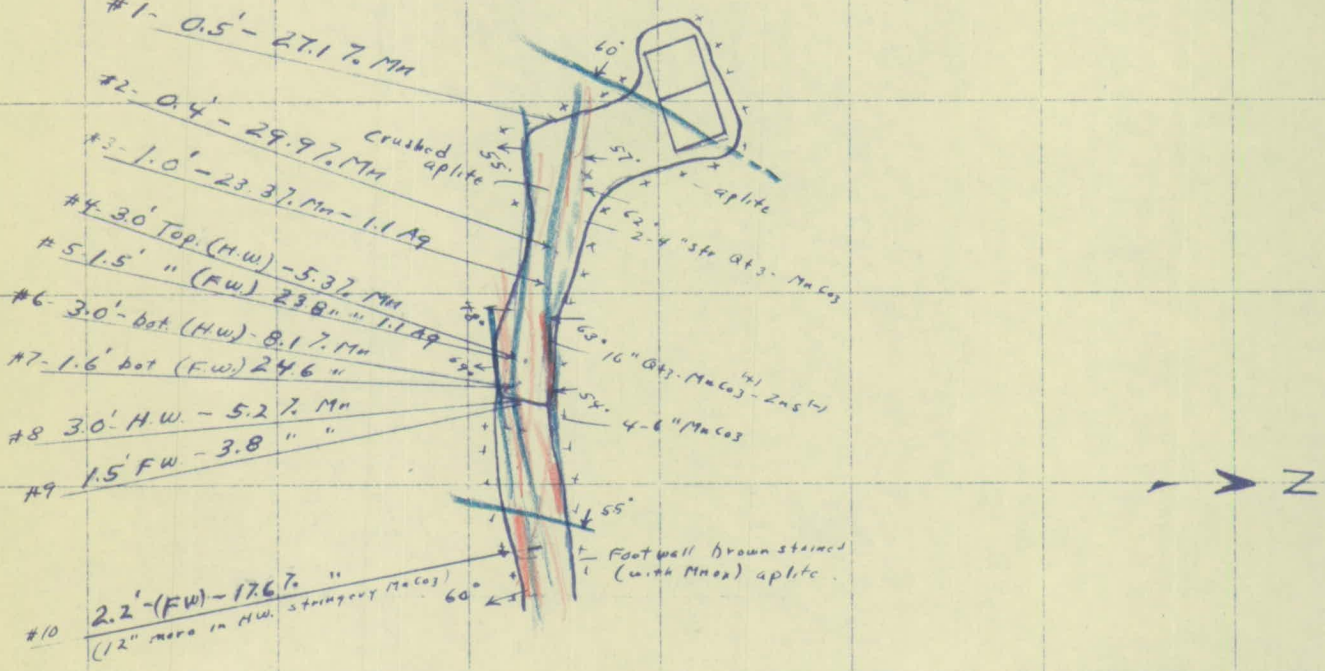
DOTTED - OLD WORKINGS 4'x6'

SOLID - NEW and REOPENED

1" = 40'

PROGRESS AS OF 8/14/




#1- 0.5' - 27.1 % Mn
#2- 0.4' - 29.9 % Mn
#3- 1.0' - 23.3 % Mn - 1.1 Ag
#4- 3.0' Top (H.W.) - 5.3 % Mn
#5- 1.5' " (F.W.) 23.8 " " 1.1 Ag
#6- 3.0' bot (H.W.) - 8.1 % Mn
#7- 1.6' bot (F.W.) 24.6 "
#8 3.0' H.W. - 5.2 % Mn
#9 1.5' F.W. - 3.8 " "
#10 2.2' - (F.W.) - 17.6 % "
(12" more in H.W. stringers MnCO3)
60°
Crushed aplite
55°
57°
60°
- aplite
2-4" str Qtz - MnCO3
65°
16" Qtz - MnCO3 (+) - ZnS (-)
4-6" MnCO3
55°
Foot wall brown stained (with MnO2) aplite.
Z

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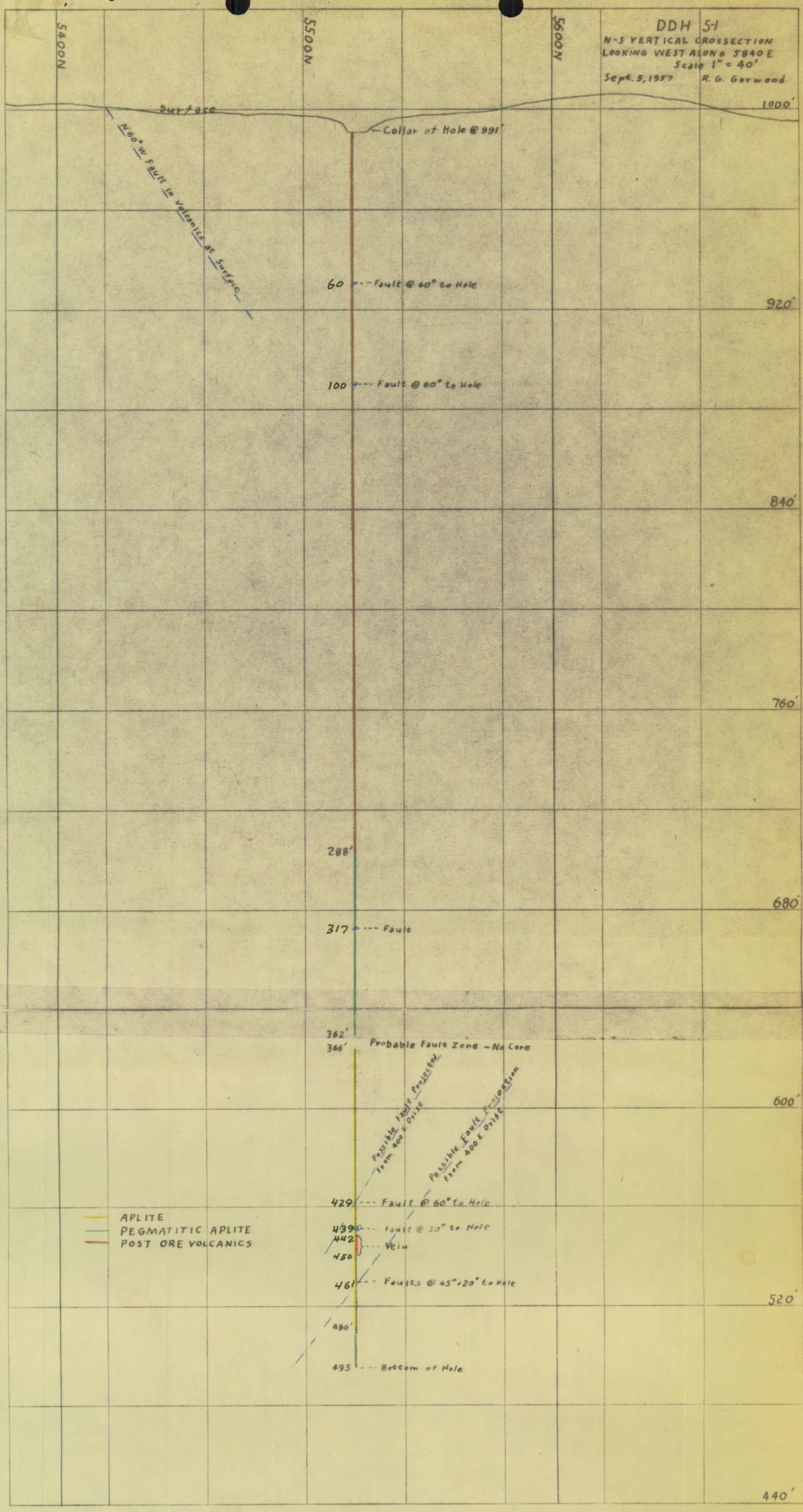
JUL 1 1 1955

SEP 16 REC'D


DDH 5-1
N-S VERTICAL CROSSECTION
LOOKING WEST ALONG 5840 E
Scale 1" = 40'
Sept. 5, 1957
R. G. Garwood
5400N
5500N
5600N
Surface
1000'
Collar of Hole @ 991'
N60°W Fault in volcanics at Surface
60 Fault @ 60° to Hole
920'
100 Fault @ 60° to Hole
840'
760'
288'
680'
317 Fault
362'
366' Probable Fault Zone - No Core
Possible Fault Projected From 400 E Drift
Possible Fault Projection From 400 E Drift
600'
429 Fault @ 60° to Hole
439 Fault @ 30° to Hole
442
450 Vein
461 Faults @ 45°, 20° to Hole
520'
480'
495 Bottom of Hole
APLITE
PEGMATITIC APLITE
POST ORE VOLCANICS
440'

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D M E A
RECEIVED OCT 14 1957

DATE	INITIALS	CODE

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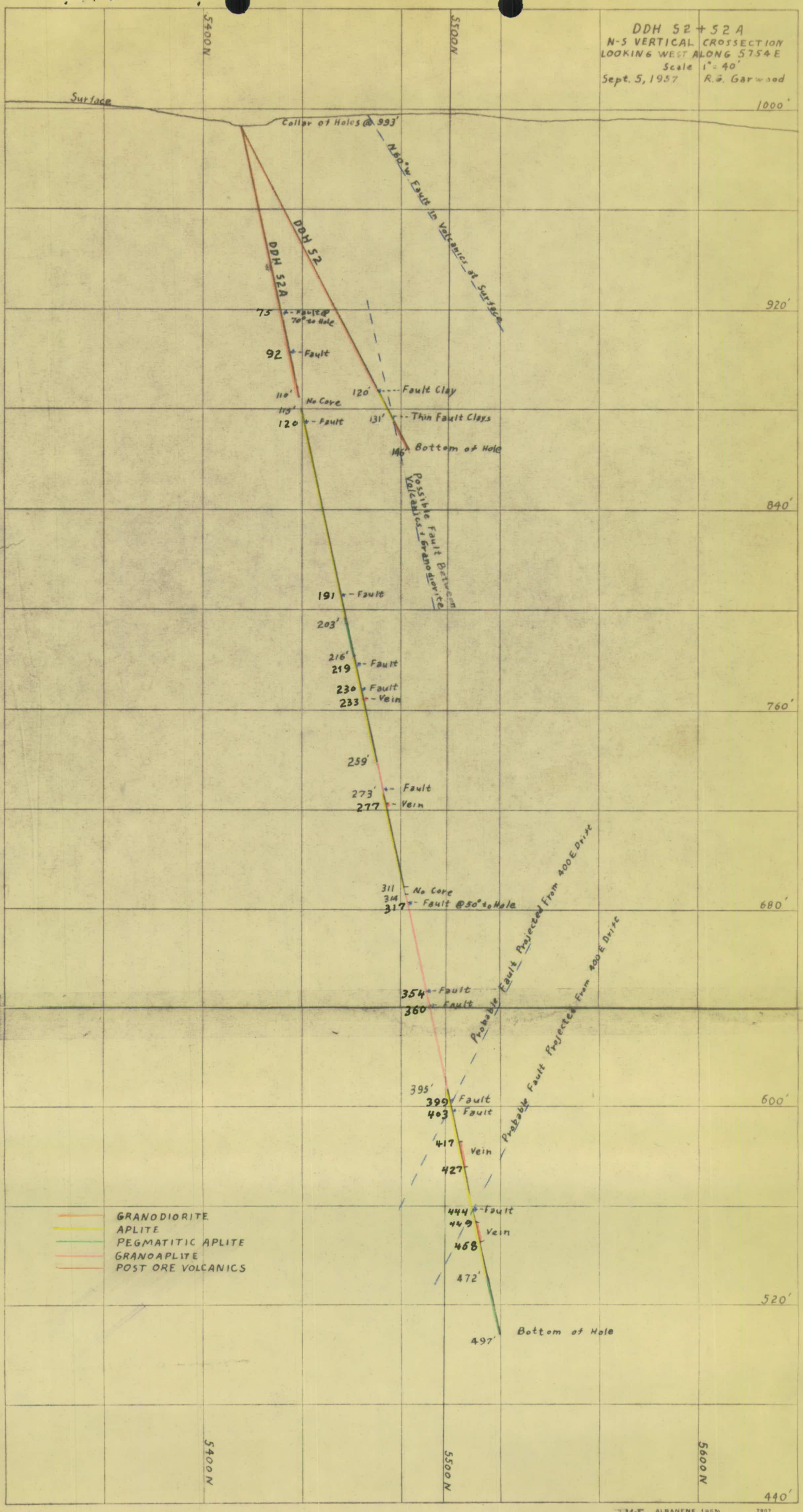
RECEIVED OCT 14 1957

DATE	INITIALS	CODE

SEP 16 REC'D


DDH 52 + 52A
N-S VERTICAL CROSSECTION
LOOKING WEST ALONG 5754E
Scale 1" = 40'
Sept. 5, 1957 R.G. Garwood
Surface
Collar of Holes @ 993'
N80°W Fault in Volcanics at Surface
DDH 52
DDH 52A
75 Fault @ 70° to Hole
92 Fault
110'
No Core
115'
120 Fault
120' Fault Clay
131' Thin Fault Clays
146' Bottom of Hole
Possible Fault Between Volcanics & Granodiorite
191 Fault
203'
216'
219 Fault
230 Fault
233 Vein
259'
273' Fault
277 Vein
311 No Core
314
317 Fault @ 50° to Hole
Probable Fault Projected From 400E Drift
354 Fault
360 Fault
Probable Fault Projected From 400E Drift
395'
399 Fault
403 Fault
417 Vein
427
444 Fault
449
Vein
458
472'
497' Bottom of Hole
GRANODIORITE
APLITE
PEGMATITIC APLITE
GRANOAPLITE
POST ORE VOLCANICS
5400N
5500N
5600N
1000'
920'
840'
760'
680'
600'
520'
440'

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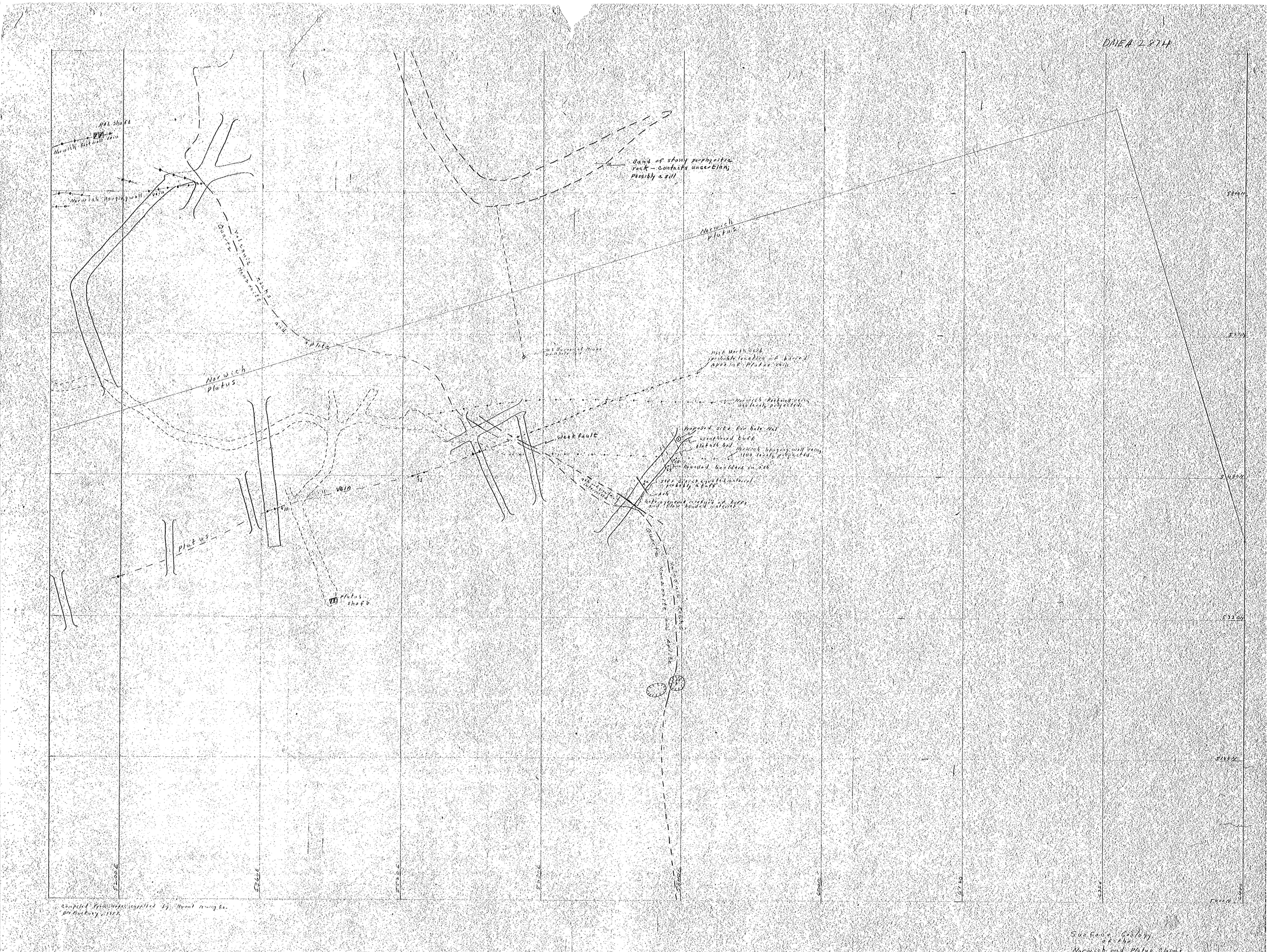
D M E A
RECEIVED OCT 14 1957

DATE	INITIALS	CODE

EXTRA COPY
D M E A
RECEIVED OCT 14 1957

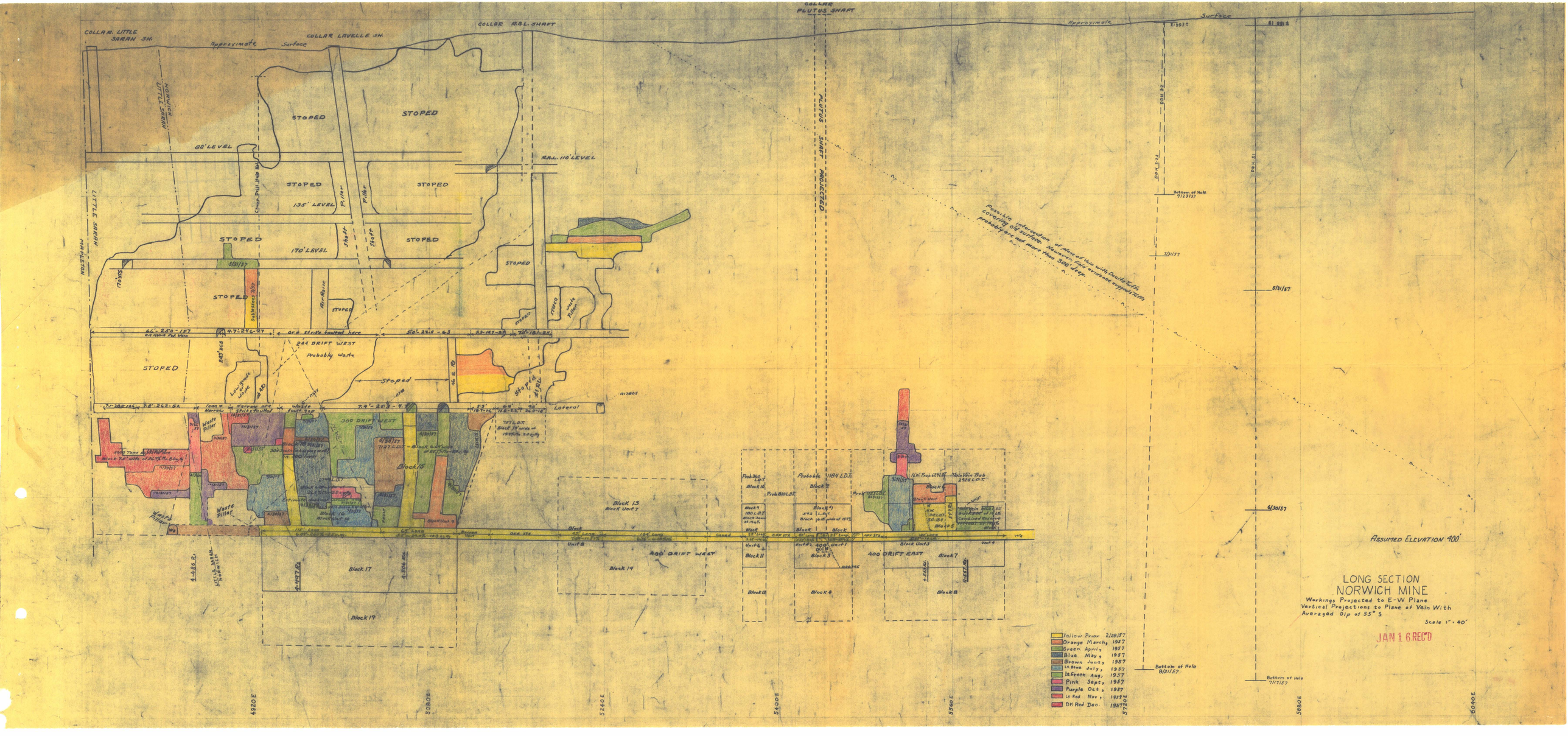
DATE	INITIALS	CODE

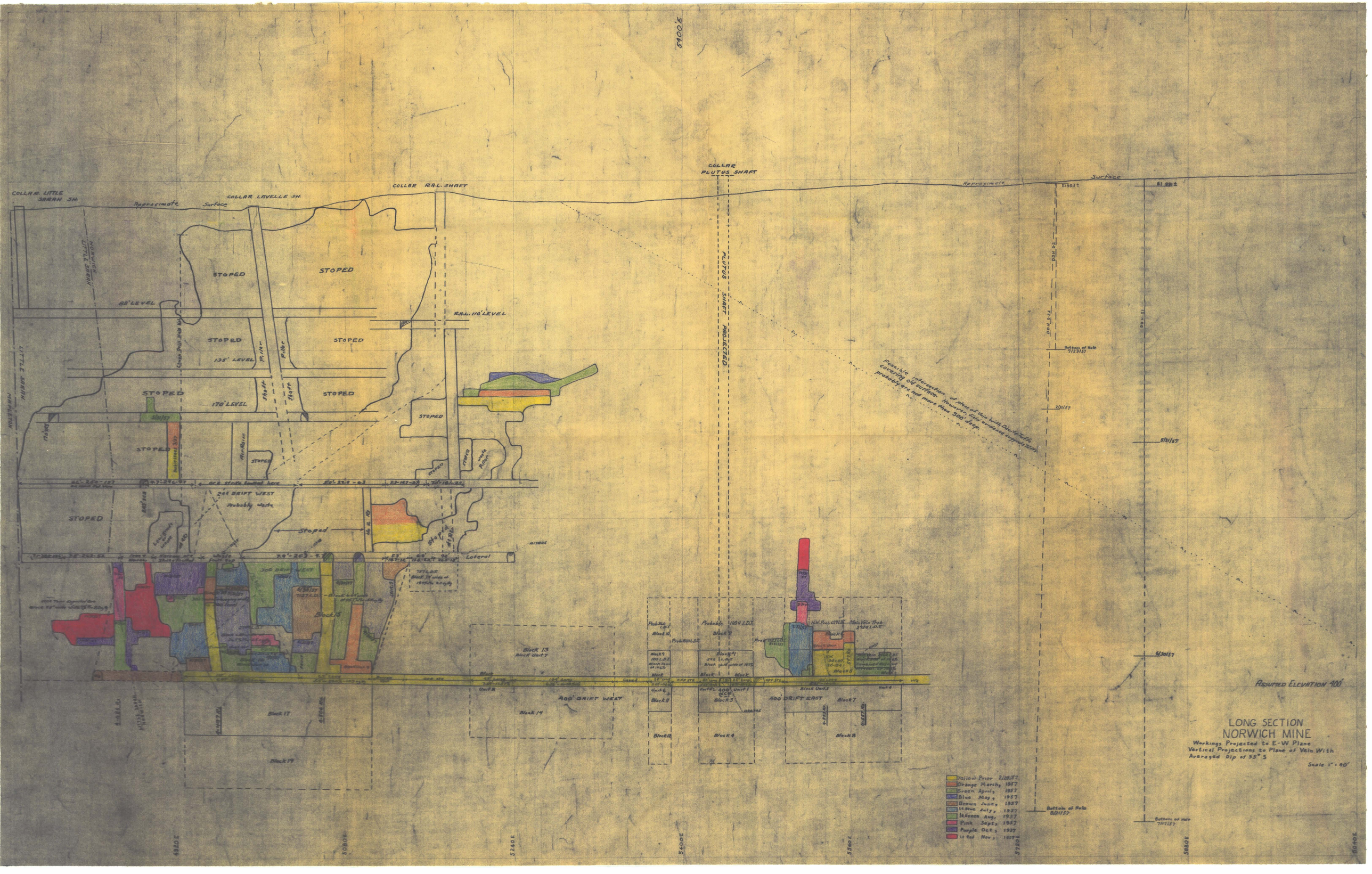
DMEA 2874

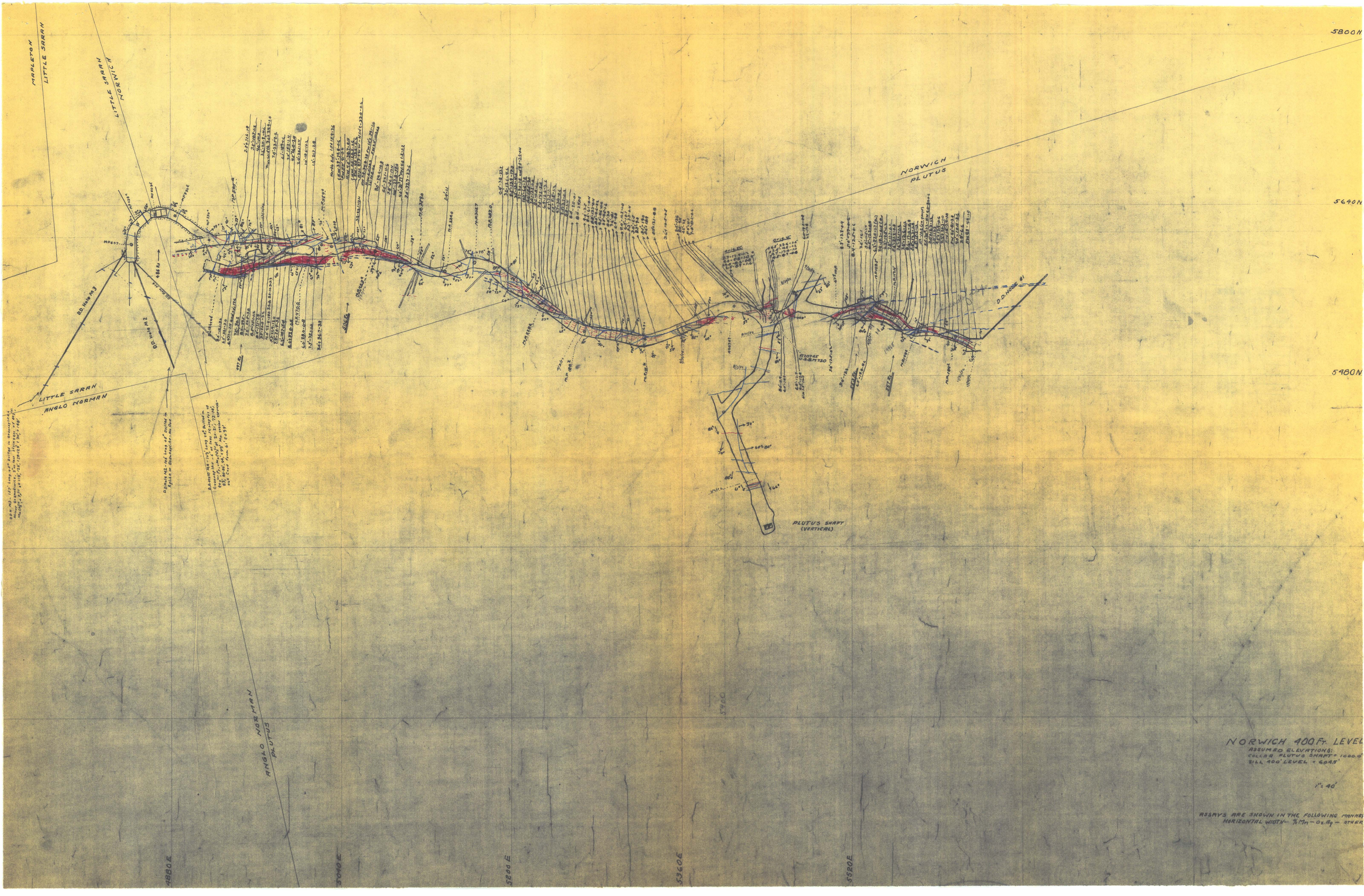


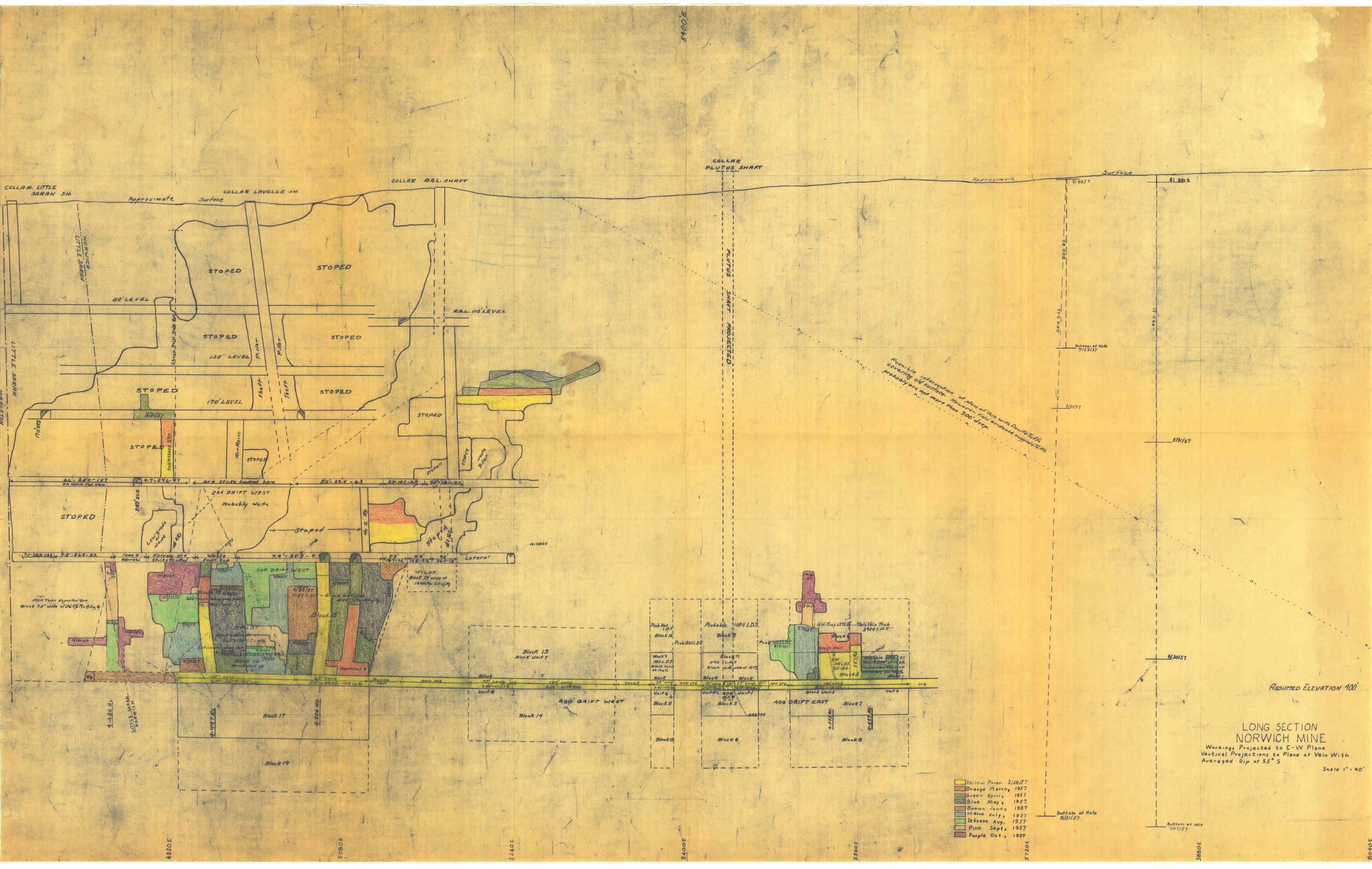
Sue Rose Colony
Geiche
Norwich and Plutus Claims
Silver Bow County Montana
Showing part of the workings

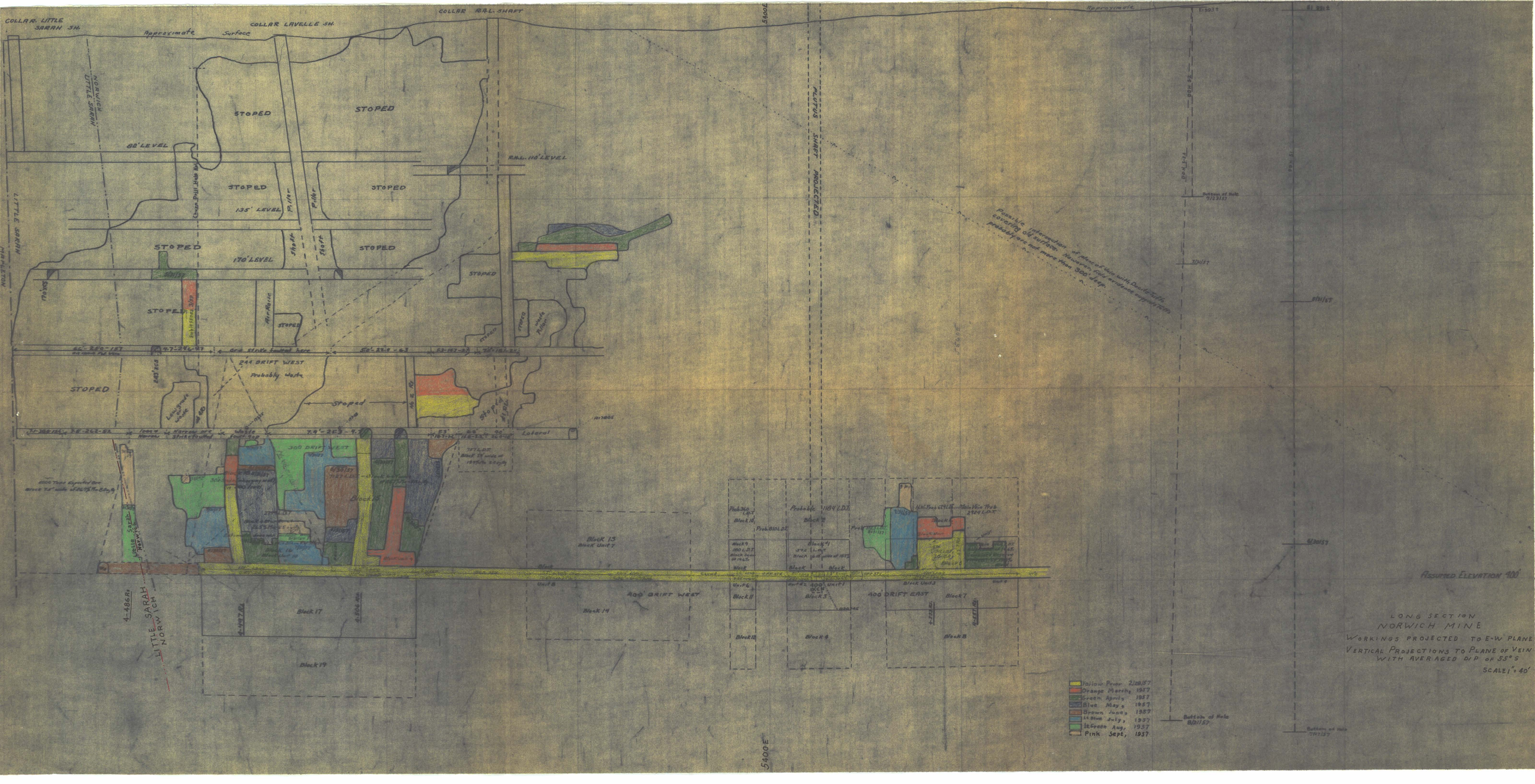
0 10 20 100 100 feet

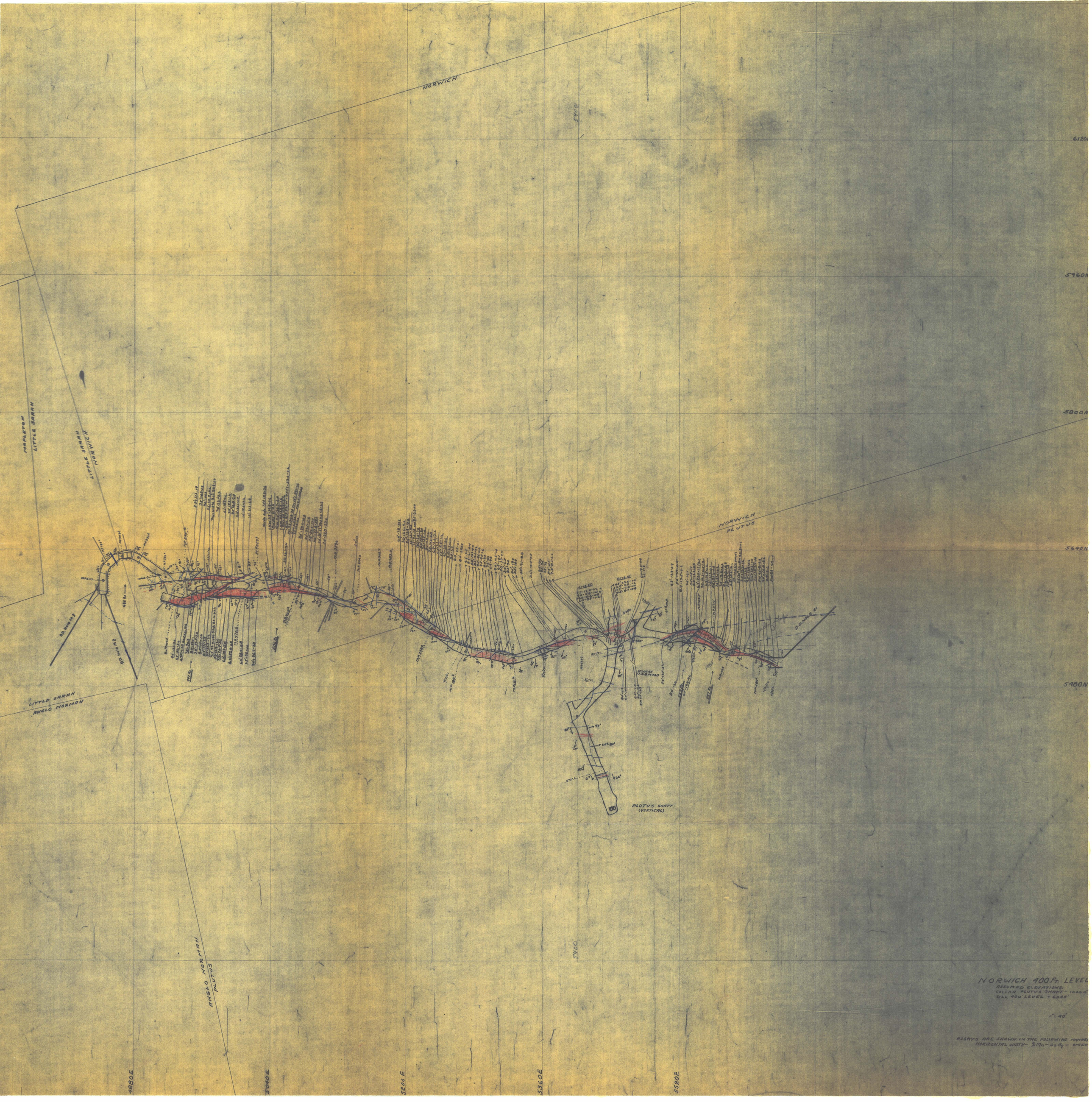

COLLAR LITTLE SARAH SH.
COLLAR LAVELLE SH.
COLLAR R.M.L. SHAFT
COLLAR PLUTUS SHAFT
Approximate Surface
NORWICH
LITTLE SARAH
MARLETON
PLUTUS SHAFT PROJECTED
82' LEVEL
R.M.L. 110' LEVEL
135' LEVEL
170' LEVEL
STOPED
244 DRIFT WEST
Probably Waste
300 DRIFT WEST
400' DRIFT WEST
400' DRIFT EAST
Block 13
Block Unit 7
Block 14
Block 15
Block 16
Block 17
Block 19
Block 7
Block 8
Block 9
Block 11
Block 12
Block 18
Block 3
Block 4
Block 1
Block 2
Block 5
Block Unit 3
Block Unit 4
Block Unit 8
Probable 1184 L.D.T.
Probable 800 L.D.T.
Probable 360 L.D.T.
Probable 400 L.D.T.
Probable 2924 L.D.T.
Waste Pillar
Lateral
Assumed Elevation 400'
Possible intersection of shoot of ore with Double Tuffs covering of surface. However, this evidence suggests it probably are not more than 300' deep.
Yellow Prior 2/28/57
Orange March, 1957
Green April, 1957
Blue May, 1957
Brown June, 1957
Lt. Blue July, 1957
Lt. Green Aug. 1957
Pink Sept. 1957
Purple Oct. 1957
Lt Red Nov. 1957
DK Red Dec. 1957
4320 E
4380 E
5240 E
5400 E
5560 E
5720 E
5880 E
6040 E
Bottom of Hole 7/29/57
Bottom of Hole 8/31/57
Bottom of Hole 7/17/57
LONG SECTION
NORWICH MINE
Workings Projected to E-W Plane
Vertical Projections to Plane of Vein With
Averaged Dip of 55° S
Scale 1" = 40'
JAN 16 REC'D

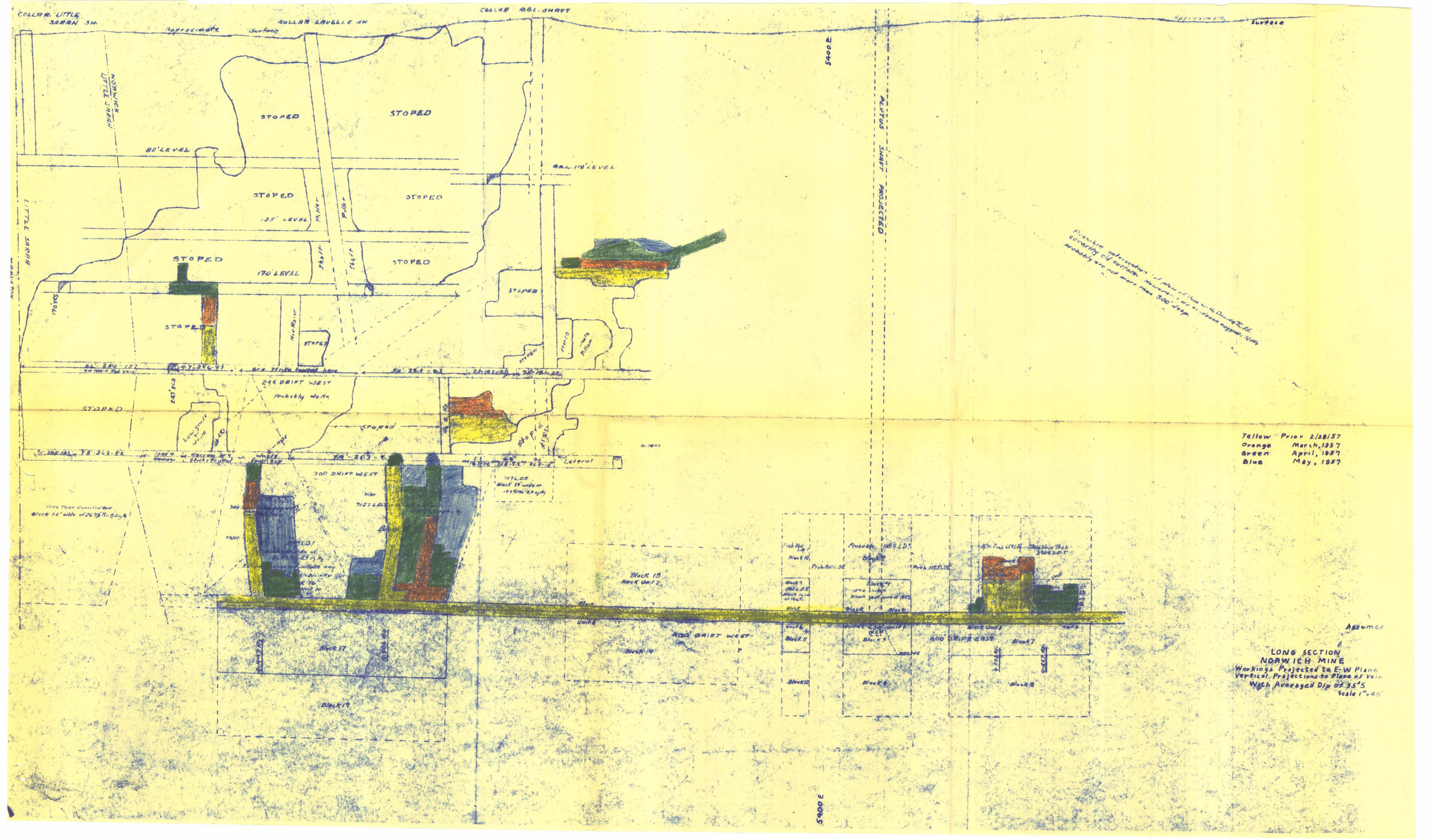

COLLAR LITTLE SARAH SH.
Approximate Surface
COLLAR LAVELLE SH.
COLLAR R.A.L. SHAFT
COLLAR PLUTUS SHAFT
Approximate Surface
NORWICH LITTLE SARAH
LITTLE SARAH
MIDDLETON
STOPED
88' LEVEL
135' LEVEL
170' LEVEL
R.A.L. 110' LEVEL
PLUTUS SHAFT PROJECTED
Possible intersection of plane of vein with Davis Shaft covering old surface. However, fresh evidence suggests probably are not more than 300 deep.
Bottom of Hole 7/23/57
7/11/57
5/31/57
Bottom of Hole 8/21/57
Bottom of Hole 7/17/57
244 DRIFT WEST
Probably Work
Stoped
Lateral
300 DRIFT WEST
Block 15
Block 13
Block 14
Block 17
Block 19
400' DRIFT WEST
400 DRIFT EAST
Block 7
Block 8
Block 4
Block 11
Block 12
Yellow Prior 2/28/57
Orange March, 1957
Green April, 1957
Blue May, 1957
Brown June, 1957
Lt. Blue July, 1957
Lt. Green Aug. 1957
Pink Sept. 1957
Purple Oct. 1957
Lt. Red Nov. 1957
Assumed Elevation 100'
LONG SECTION
NORWICH MINE
Workings Projected to E-W Plane
Vertical Projections to Plane of Vein With
Averaged Dip of 55° S
Scale 1" = 40'

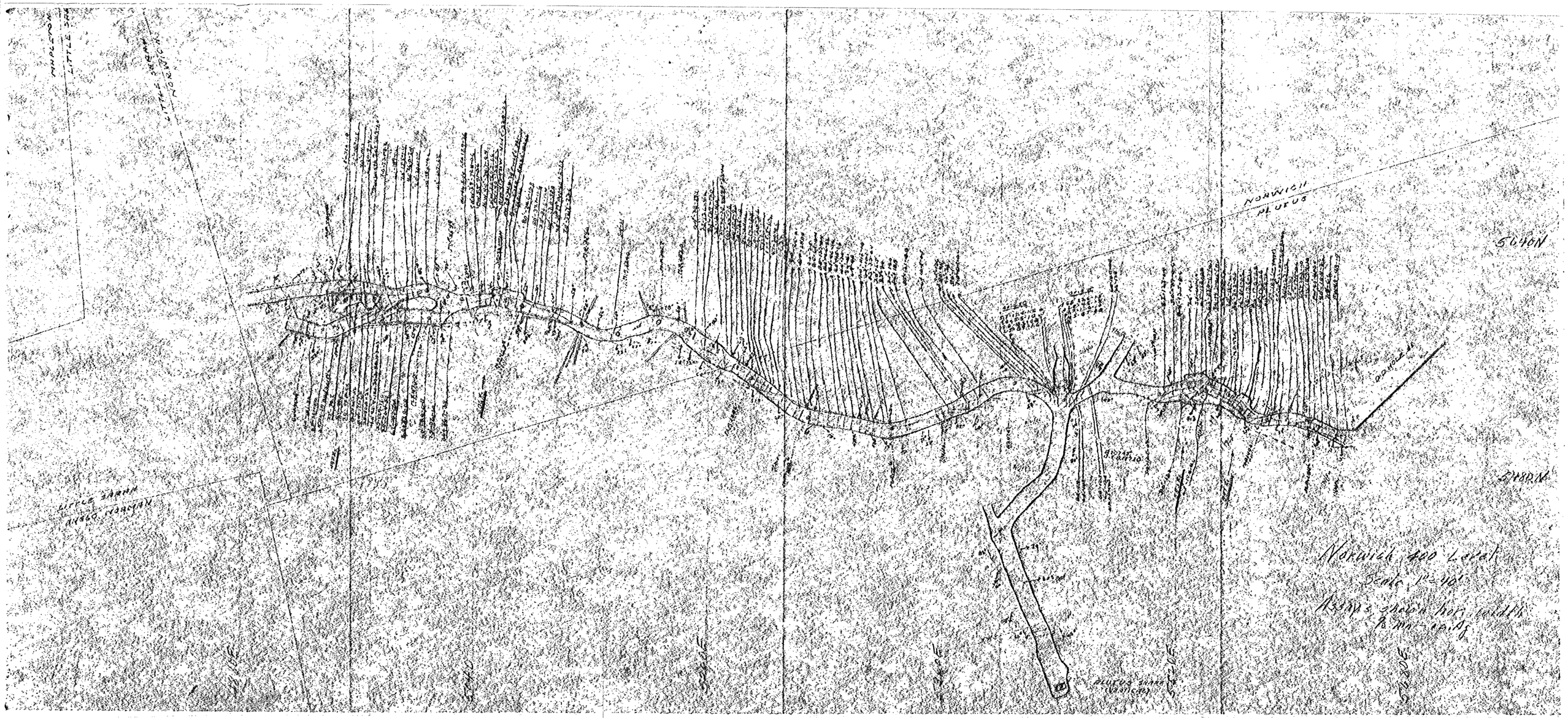

MARLETON
LITTLE SARAH
LITTLE SARAH
NORWICH
NORWICH
PLUTUS
LITTLE SARAH
ANGLO NORMAN
ANGLO NORMAN
PLUTUS
PLUTUS SHAFT
(VERTICAL)
5800N
5640N
5980N
4880E
5200E
5360E
5520E
NORWICH 400Ft. LEVEL
ASSUMED ELEVATIONS:
COLLAR PLUTUS SHAFT = 1600.0'
SILL 400' LEVEL = 609.5'
1" = 40'
ASSAYS ARE SHOWN IN THE FOLLOWING MANNER
HORIZONTAL WIDTH - %Mn - oz Ag - OTHER


COLLAR R. LITTLE SARAH SH.
Approximate Surface
COLLAR LAVELLE SH.
COLLAR R.R.L. SHAFT
COLLAR PLUTUS SHAFT
PLUTUS SHAFT PROJECTED
NORWICH LITTLE SARAH
LITTLE SARAH
MIDDLETON
STOPED
88' LEVEL
135' LEVEL
170' LEVEL
R.R.L. 110' LEVEL
Pillar
Shaft
Air-Raise
Waste Pillar
Sublevel 3/57
5/31/57
Ore strike faulted here
244 DRIFT WEST
Probably Work
Stoped
Low grade waste
Haulage
Waste fault zone
Lateral
300 DRIFT WEST
Block 13
Block 14
Block 16
Block 17
Block 19
400' DRIFT WEST
400' DRIFT EAST
Block 1
Block 2
Block 3
Block 4
Block 5
Block 7
Block 8
Block 9
Block 10
Block 11
Block 12
Block 13
Block 14
Block 16
Block 17
Block 19
Probable 1184 L.D.T.
Probable Vein with Dacite Tuffs covering old surface. However, field evidence suggests it probably are not more than 300' deep.
Bottom of Hole 8/21/57
Bottom of Hole 7/17/57
Bottom of Hole 7/29/57
Yellow Prior 2/28/57
Orange March, 1957
Green April, 1957
Blue May, 1957
Brown June, 1957
Lt Blue July, 1957
Lt Green Aug, 1957
Pink Sept, 1957
Purple Oct, 1957
4920E
5080E
5240E
5400E
5560E
5720E
5880E
6040E
Assumed Elevation 900'
LONG SECTION
NORWICH MINE
Workings Projected to E-W Plane
Vertical Projections to Plane of Vein With Averaged Dip of 55° S
Scale 1" = 40'


COLLAR LITTLE SARAH SH.
COLLAR LAVELLE SH.
COLLAR R.R.L. SHAFT
Approximate Surface
NORWICH LITTLE SARAH
LITTLE SARAH
PLUTUS SHAFT PROJECTED
5400E
STOPED
88' LEVEL
R.R.L. 110' LEVEL
135' LEVEL
170' LEVEL
Pillar
Shaft
Air Raise
Chute
Possible intersection of stope of Vein with Double Raise, covering old surface. Vein is fairly consistent, engagement seem probably not more than 300' deep.
244 DRIFT WEST
Probably waste
Stoped
Lateral
300 DRIFT WEST
Block 15
Block 13
Block Unit 7
Block 14
400' DRIFT WEST
Block 17
Block 19
Probable 184 L.D.T.
Block 2
Block 11
Block 9
Block 4
Block 3
Block 10
Block 6
Block 8
400 DRIFT EAST
Block 7
Block Unit 3
Block Unit 8
Block Unit 6
Block Unit 1
Assumed Elevation 400'
Yellow Prior 2/28/57
Orange March, 1957
Green April, 1957
Blue May, 1957
Brown June, 1957
Lt Blue July, 1957
Lt Green Aug, 1957
Pink Sept, 1957
Bottom of Hole 8/21/57
LONG SECTION
NORWICH MINE
WORKINGS PROJECTED TO E-W PLANE
VERTICAL PROJECTIONS TO PLANE OF VEIN
WITH AVERAGED DIP OF 55° S
SCALE 1" = 40'

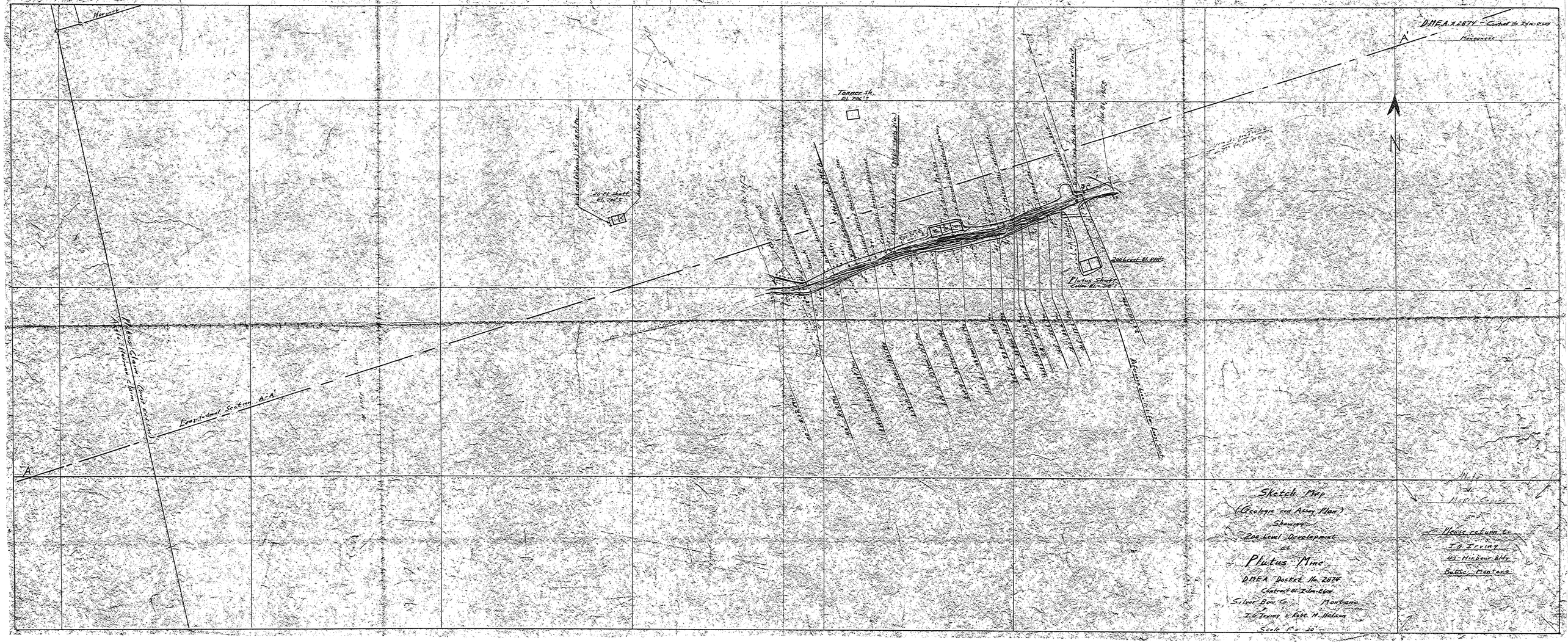

NORWICH
STUD
6120N
5960N
5800N
5640N
5480N
5760C
NORWICH
PLUTUS
HARLETON
LITTLE SARAH
LITTLE SARAH
NORWICH
LITTLE SARAH
ANGLO NORMAN
ANGLO NORMAN
PLUTUS
PLUTUS SHAFT
(VERTICAL)
4880E
5040E
5200E
5360E
5520E
NORWICH 400 Ft. LEVEL
ASSUMED ELEVATIONS:
COLLAR PLUTUS SHAFT = 10000
SILL 400 LEVEL = 6045'
1" = 40'
ASSAYS ARE SHOWN IN THE FOLLOWING MANNER
HORIZONTAL WIDTH — % Mn — oz Ag — OTHER

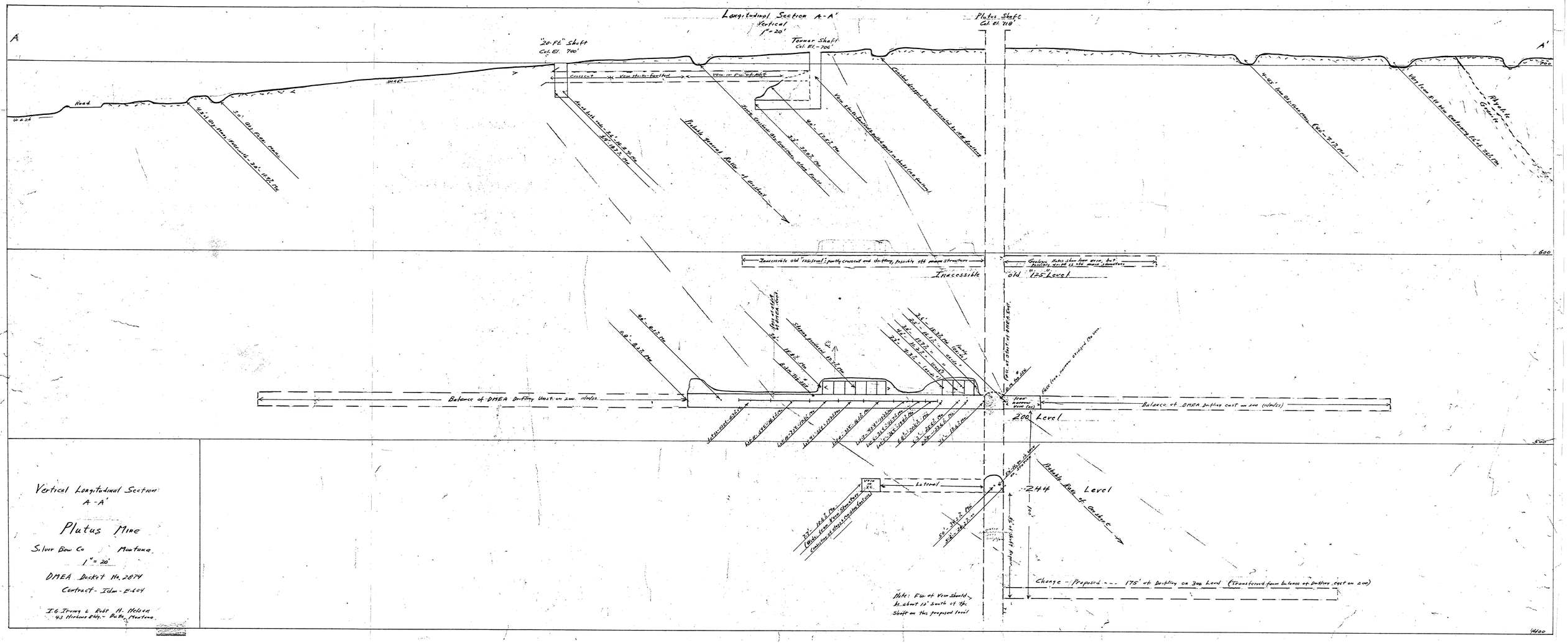

COLLAR LITTLE SARAH SH.
Approximate Surface
COLLAR LAVELLE SH
COLLAR RAIL SHAFT
Approximate Surface
5400 E
NORWICH LITTLE SARAH
STOPED
STOPED
82' LEVEL
RAIL 110' LEVEL
STOPED
STOPED
135' LEVEL
PILLAR
PILLAR
LITTLE SARAH
STOPED
STOPED
170' LEVEL
SHAFT
SHAFT
STOPED
STOPED
STOPED
Air Raise
STOPED
ore strike found here
244 DRIFT WEST
Probably waste
STOPED
Stoped
Stoped
Lateral
700 DRIFT WEST
727 LDE
Block 14' wide at 155% Ht. Length
1600 Tons Expected ore
Block 26' wide at 26% Ht. Length
Block 15
Block Unit 1
Block 14
400 DRIFT WEST
Block 17
Block 19
Block 11
Block 12
Probable 1189 LDE
Prob. Block LDE
Block 3
Block 6
400 DRIFT EAST
Block 7
Block 8
Block Units
5400 E
PLUTUS SHAFT PROJECTED
Possible intersection of shaft with Dunette if covering old surface. However this evidence suggests it probably are not more than 300' deep.
Yellow Prior 2/28/57
Orange March, 1957
Green April, 1957
Blue May, 1957
Assumed
LONG SECTION
NORWICH MINE
Workings Projected to E-W Plane
Vertical Projections to Plane of Vein
With Averaged Dip of 35°5
Scale 1" = 40'


NORWICH
PLUTUS
5640N
5748N
LITTLE SARNA
NORWICH
Norwich 400 Level
Scale 1" = 40'
Plans showed hor. width
to mining

Yellow prior 3/28/57
Orange 3/57
Green 4/57
Stoped
Block 13
Block 14
Block 17
Block 19
Block 18
Block 16
Block 15
Block 12
Block 11
Block 10
Block 9
Block 8
Block 7
Block 6
Block 5
Block 4
Block 3
Block 2
Block 1
Block 20

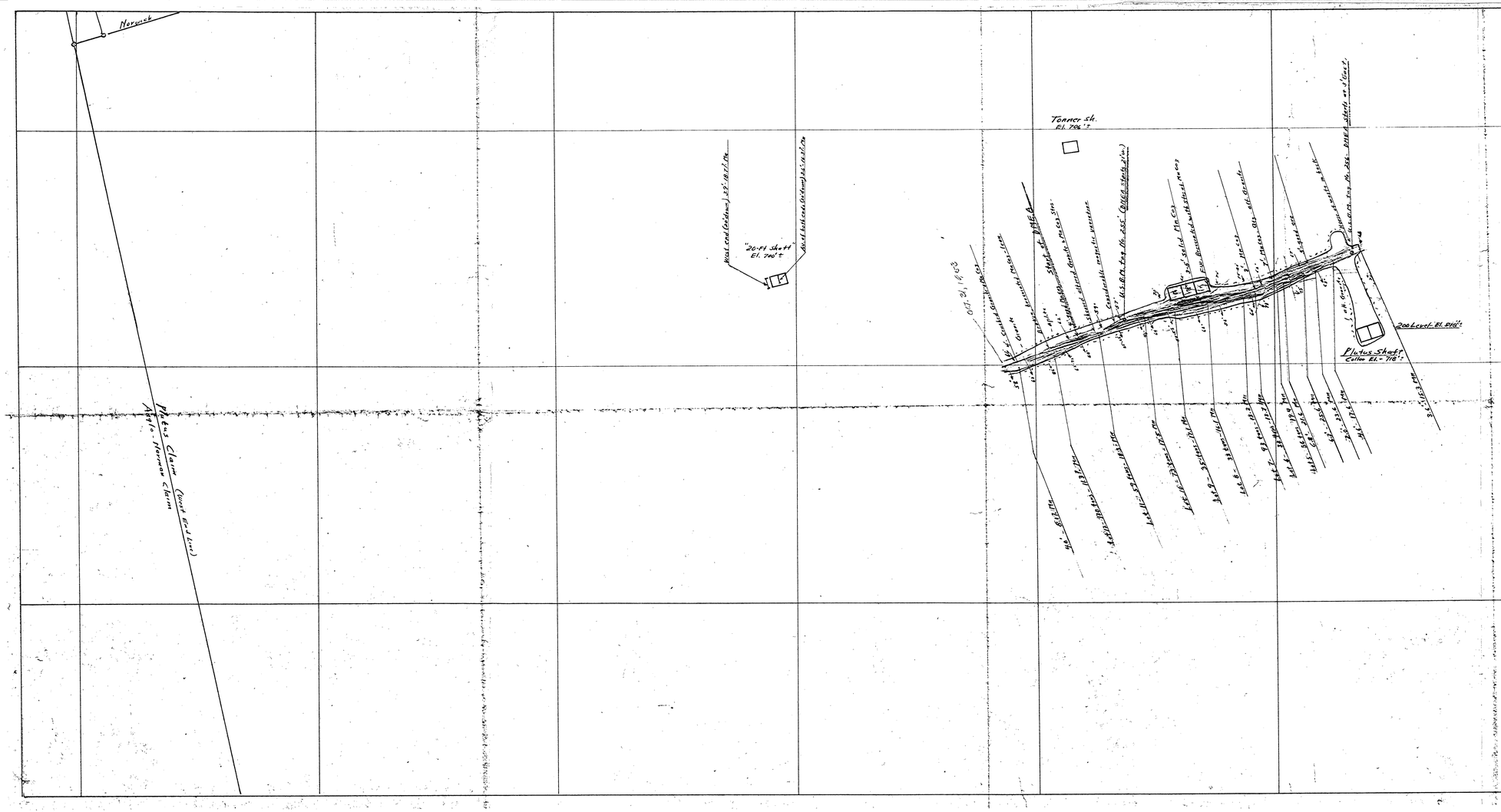
[redacted]


Harrison
Torrey Sh.
El. 7?
20 ft. shaft
El. 7?
Shaft
Pluto Shaft
Collar El. 7?
Longitudinal Section A-A'
Mahoney Claim (Patented)
Mt. Harrison Claim
DMEA Docket No. 2874 - Contract No. I-G-Mon-6-60
Manganese
A
A'
N
Sketch Map
(Geologic and Assay Plan)
Showing
Prospect Development
of
Pluto's Mine
DMEA Docket No. 2874
Contract No. I-G-Mon-6-60
Silver Bow Co. Montana
I.G. Irving & Robt. H. Nelson
Scale 1" = 20'
N.B.
Please return to
I.G. Irving
41 Harbour Blg.
Butte, Montana


Longitudinal Section A-A'
Vertical
1" = 20'
Plutus Shaft
Col. El. 718'
"20-Ft" Shaft
Col. El. 740'
Tunnel Shaft
Col. El. 706'
A
A'
Road
Wash
Inaccessible
Old 125' Level
Balance of DMEA Drifting West on 200 Level
Balance of DMEA Drifting East on 200 (Level)
200 Level
244 Level
Lateral
Probable Path of Crosscut
Change - Proposed --- 175' of Drifting on 300 Level (Transferred from balance of Drifting East on 200)
Note: Fw of Vein should be about 15' South of the Shaft on this proposed level
Vertical Longitudinal Section
A-A'
Plutus Mine
Silver Bow Co. Montana
1" = 20'
DMEA Docket No. 2874
Contract - Idm-E-604
I.G. Irving & Robt. H. Nelson
45 Hirsons Bldg. - Butte, Montana.

DMEA # 2874 – Contract No IJm-E604

Manganese



Sketch Map

(Geologic and Assay Plan)

Showing

200 Level Development

at

Plutus Mine

DMEA Docket No. 2874

Contract No IJm-E604

Silver Bow Co. Montana

I.G. Irving & Robt. H. Nelson

Scale 1" = 20'–

Mail

Mark Space

and

Please return to

I.G. Irving

43 Hibbert Bldg

Butte, Montana