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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1954 Docket No. DMEA 2082 Contract No. Idm-1248

Operator's Name MT. [illegible] MINES, INC. Minerals Tungsten

Address P.O. Box 150, Salt Lake City 10, Utah

Contract Amount, $ 170,424.00 Government Participation: 75 % Amount, $ 127,818.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WSM
Drilling						
Bulldozing						
Crosscutting						
Drifting	940.00	17,100.00	18,040.00			
Timbering		300.00	300.00			
(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						
Costs to 12/12/53						
Prior to Amend. No. 4		138,492.90	138,492.90			
(8) Contingencies (specify):						
TOTALS	940.00	155,892.90	156,832.90			

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

Date Nov. 10, 1954 *Payee MT. [illegible] MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 705.00

Lloyd H. Sjolander
Authorized Certifying Officer

Signature
(Authorized Certifying Officer)

Date Vou. No. SF-Dmea-13

(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. [illegible] in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date Nov. 12, 1954.

A. C. Johnson

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S. Micker Title DMEA Field Team Date November 15, 1954

S. Micker

Region III

Executive Officer

Region III

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.

RECEIVED NOV 15 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 195 4 Docket No. DMEA 2082 Contract No. Idm-5248
Operator's Name Mt. Vernon Mines, Inc. Minerals Tungsten
Address P.O. Box 150, Salt Lake City 10, 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.	940.00	23.5	18,040.00	451.0	40.00	700.0	40.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
~~Scraping~~ Timbering	Ft.			300.00	50.0	6.00	200.0	6.00
~~Trenching~~ Sawing	"							148.00
Test Pits								
Roads and Trails								
Costs to 12/12/53				109,065.50				
TOTAL DISTRIBUTED COSTS		940.00		127,405.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Costs to 12/12/53				29,427.40				
TOTAL COSTS		940.00		156,832.90				

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

Date Nov. 10, 1954 Operator Mt. Vernon Mines, Inc.

Per James D. Williams Title President

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

REMARKS: Costs to 12/12/53 prior to amendment dated May 20, 1954.

(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
Month of October, 1954
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E-248
Contract Amount - $170,424.00
Government Participation -75%

The period covered by this report is from October 1, 1954, to October 10, 1954, during which 8 shifts were worked on the Exploration Project.

Exploration Work (See Map C-100 Attached)

Total advance for the period was 23.5 feet on a N 25° E course up bedding.

At start of month the drift had just passed through the main North quartz fissure zone which was about 10 feet wide. Immediately on the North side of this zone, a S 80° E fissure, dipping 75° Northerly, was cut which showed 6 inches of fairly good scheelite. At the face a N 20° W fault, dipping 75° Westerly, was cut. This fault was about 4 feet wide and completely mud filled. The limestone in the face did not show any scheelite.

In view of the fact that the result of this North zone exploration has not been favorable, it has been decided to request a diversion of the remaining footage of the contract to No. 7 Lateral in the Pole Adit. This request has been sent direct to Washington with copies to the Field Team and Region III, Mining Division, U. S. Bureau of Mines, for their respect information.

Docket 2082

Idm-E248

mf 104

Oct. 1954

(map)

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

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

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

OCT 26 1954

Month of September, 1954 Docket No. DMEA 2002 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 Short Form Contracts:						WSM
Drilling						
Bulldozing						
Crosscutting						
Drifting	[illegible]	14,[illegible]	17,[illegible]			
Underlay	120.00	180.00	300.00			
(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						
Costs to 12/31/53 prior to Contr. No. 4		138,[illegible]	138,[illegible]			
(8) Contingencies (specify):						
TOTALS	[illegible]	15[illegible]	155,[illegible]			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Oct. 21, 1954 *Payee [illegible], S.C.
Per [illegible] Title President

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

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

(Instructions on reverse)

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

$2385.00

Lloyd H. Sjolander
Authorized Certifying Officer

Signature
(Authorized Certifying Officer)

Date OCT 20 1954 Vou. No. SF-DMEA-9

(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. [illegible] in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date Oct. 15, 1954.
A. C. Johnson Region III

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date October 15, 1954
H. C. Miller

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OCT 26 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1954 Docket No. DMEA 2082 Contract No. Idm-E 248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah

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.	3,060.00	76.5	17,100.00	427.5	$40.00	700.0	$ 40.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stripping~~ Timbering	Ft.	120.00	20.0	300.00	50.0	6.00	200.0	6.00
~~Trenching~~ Assaying	$							148.00
Test Pits								
Roads and Trails								
*Costs to 12/12/53				109,065.50				
TOTAL DISTRIBUTED COSTS		3,180.00						TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
*Costs to 12/12/53				29,427.40				
TOTAL COSTS		3,180.00		155,892.90				

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

REMARKS: *Costs to 12/12/53 prior to Amendment No. 4, dated May 20, 1954.

Date October 11, 1954 Operator MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

(Instructions on reverse)

(For Government use only)

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

OCT 26 1954

NARRATIVE REPORT
Month of September, 1954
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E-248
Contract Amount - $170,424.00
Government Participation- 75%

The period covered by this report is from September 1, 1954, to September 30, 1954, during which 26 shifts were worked on the Exploration Project.

Exploration Work (See Map C-100 attached)

Total advance for the period was 76.5 feet; 15.0 feet on a S 68° E course in the main drift and 61.5 feet in the North lateral up bedding on a N 25° E course.

At start of month plus 23.0 feet a very strong N 25° E fault, dipping 80° Westerly, was cut. The fault was 5-8 feet wide on the lateral level and entirely filled with mud which sloughed upwards approximately 30 feet. Some 200 cars of mud were removed before the lateral could continue Northward. Temporary timbering was required and approximately two weeks were lost in getting thru this area. At 39.0 and 45.0 feet two S 85° E quartz fissures were cut, about 2 inches wide, which contained scheelite mineralization. At 50 to 52 feet 18 inches of good scheelite ore was cut which was estimated to assay plus 1.0% WO_3. This ore lies on the South wall of the Main quartz fissure which was cut at 52-61.5 feet. This fissure is about 10 feet wide and consists of a highly broken quartz zone with no evidence of scheelite. However, the ground stands well. The ore zone, which lies on the North side of this quartz fissure in the limestone bed, is the objective of this lateral and will be explored during the month of October.

The main drift was advanced 15.0 feet on a S 68° E course. At the face, portal plus 323.0 feet a zone of broken limestone heavily filled with mud was encountered. This broken zone undoubtedly corresponds to the N 25° W faulting cut during August in the lateral and may require considerable timbering.

Form MF-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

SEP 13 1954

RECEIVED
OCT - 4 1954

Month of August, 1954 Docket No. DMEA 2032 Contract No. Idn-E 249
Operator's Name W. [illegible] MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $ 170,424.00 Government Participation: 75 % Amount, $ 127,818.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WSM
Drilling						
Bulldozing						
Crosscutting						
Drifting	2,680.00	11,360.00	14,040.00			
Timbering		180.00	180.00			
(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						
Costs to 12/12/53 prior to mend. No. 4		138,492.90	138,492.90			
(8) Contingencies (specify):						
TOTALS	2,680.00	150,032.90	152,712.90			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Sept. 8, 1954 *Payee W. [illegible] MINES, INC.
Per [signature] Title President

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

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

(Instructions on reverse)

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

$ 2010.00

Lloyd H. Splainter
Authorized Certifying Officer
Signature
(Authorized Certifying Officer)

Date SEP 27 1954 Vou. No. SF-DMEA-7

(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. Idm-E248 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date Sept. 9, 1954.
A. C. Johnson Region III

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Date September 13, 1954
H. C. Miller Region III

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

ACCOUNTS DIVISION SEP 13 1954 Defense Minerals Administration

RECEIVED OCT - 4 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1954 Docket No. DMEA 2082 Contract No. 10-[illegible]-240
Operator's Name MR. [illegible], INC. Minerals Tungsten
Address P. O. Box 250, Salt Lake City 10, 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.	2,680.00	67.0	24,040.00	352.0	40.00	700.0	40.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stripping~~ Sampling	Ft.			180.00	30.0	6.00	200.0	6.00
~~Trenching~~ Assaying	#						#	140.00
Test Pits								
Roads and Trails								
Costs to 12/12/53				109,065.50				
Total Distributed Costs		2,680.00						Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Costs to 12/12/53				29,647.40				
Total Costs		2,680.00		152,712.90				

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

Date Sept. 8, 1954 Operator MR. [illegible], INC.

Per James D. Wilkins Title President

Remarks: Costs to 12/12/53 prior to Amendment No. 4, dated May 20, 1954.

→ 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
Month of August, 1954
To Accompany MF-104

DEPT. OF THE INTERIOR
Minerals Administration
RECEIVED
OCT 4 1954

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E-248
Contract Amount - $170,424.00
Government Participation- 75%

The period covered by this report is from August 1, 1954 to August 31, 1954, during which 21 shifts were worked on the Exploration Project.

Exploration Work (See Map C-100 Attached)

Total advance for the period was 67.0 feet; 24.0 feet on a S 68° E course and 43.0 feet up bedding on a N 30° E course.

The main drift was driven ahead to the 308.0 foot point and then the bedding drift was started at the 281.0 foot point. This was driven 31.0 feet on the level, a throw switch installed, the back was cut out and a slusher was installed for drifting up bed entirely within the limestone; 12.0 feet of drift was driven from this point within the bed. Three E-W quartz fissures were cut, as indicated on the map, all of which showed good scheelite mineralization along the fissuring. No bedded ore was observed. At the face a strong N 80° E fault was cut which was filled with mud. This caused considerable trouble as it sloughed out approximately 30 feet vertically and required spiling. At the close of the month the necessary timbering had been done which should permit us to continue through to the North ore objective. It is estimated that an additional 80-90 feet will be required to reach the ore zone on the North side of the main quargz fissure. Considerable time was lost in cutting out, installing the slusher setup and in getting through the fault.

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

Dmea 2082

420 Custom House
555 Battery Street
San Francisco 11, Calif.

August 17, 1954

WSM

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Operators' Monthly Progress Reports - Forms MF-104 and MF-104A

Enclosed herewith are two copies of each of the subject reports received from the following operators as listed below. These reports have been audited and passed to the Treasury for payment.

Contract No.	Operator	Report Dated	Period Covered
Idm-E248 DMEA-2082	Mt. Wheeler Mines, Inc.	August 10, 1954	July 1954
Idm-E481 DMEA-2688	M. I. A. Mines Company	June 24, 1954	May 1954
Idm-E505 DMEA-2801	Metallics Unlimited	April 10, 1954 (Final)	March 1954
Idm-E625 DMEA-3103	Caviglia & Parodi	August 6, 1954	July 1954
Idm-E637 DMEA-3106	Idamic Mines, Inc.	August 9, 1954	July 1954

H. C. Miller

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Enclosures

Copy to: Roscoe Smith, USGS

Form MF-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.

AUG 1 3

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1954 Docket No. DMEA 2082 Contract No. Idm-5 248
Operator's Name MR. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $ 170,424.00 Government Participation: 75 % Amount, $ 127,818.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting	4,840.00	6,520.00	11,360.00			
Timbering		180.00	180.00			
(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						
Costs to 12/12/53 Prior to Amend. No. 4		138,492.90	138,492.90			
(8) Contingencies (specify):						
TOTALS	4,840.00	145,192.90	150,032.90			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Aug. 10, 1954 *Payee MR. WHEELER MINES, INC.

Per James D. Wallace Title President

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

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

(Instructions on reverse)

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

$ 3630.00

Signature Floyd A. Spencer, Authorized Certifying Officer
(Authorized Certifying Officer)

Date AUG 17 1954 Vou. No. SF-DMEA-4

(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. Idm-E248 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date August 12, 1954.

A. C. Johnson Region III

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Date August 12, 1954

H. C. Miller Region III

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ACCOUNTS AUG 13 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1954 Docket No. DMEA 2082 Contract No. Idm-S 248
Operator's Name MT. WHITNEY MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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.	4,840.00	121.0	11,360.00	284.0	40.00	700.0	40.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stoping~~ Timbering	Ft.			180.00	36.0	6.00	200.0	6.00
~~Processing~~ Assaying	$						$	148.00
Test Pits								
Roads and Trails								
*Costs to 12/12/53				109,065.50				
TOTAL DISTRIBUTED COSTS		4,840.00						TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
*Costs to 12/12/53				29,427.40				
TOTAL COSTS		4,840.00		150,032.90				

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

Date Aug. 10, 1954 Operator MT. WHITNEY MINES, INC.

Per James D. Williams Title President

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

(Instructions on reverse)

REMARKS: *Costs to 12/12/53 prior to Amendment No. 4, dated May 20, 1954.

(For Government use only)

NARRATIVE REPORT
Month of July, 1954
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount - $170,424.00
Government Participation - 75%

The period covered by this report is from July 1, 1954, to July 31, 1954, inclusive, during which 27 shifts were worked on the Exploration Project.

Exploration Work (See Map C100 Attached)

Total advance for the period was 121.0 feet on a S 68° E. course. The Wheeler bed in this interval was quite regular, having about a S 70° E. strike, with the result that the lime-shale contact dropped to the bottom of the drift in the face.

Four N. 20° W. faults were cut during the drive, viz., at 18, 51, 64 and 103 feet from the start at the first of the month. These faults were from 1 to 3 feet wide and were mud filled. Very little, if any, movement was observed. Two N. 80°-85° E. quartz fissures were cut at 30 and 90 feet respectively. These were 3-4 inches in width and carried considerable scheelite mineralization.

The drift will be advanced to the 300 foot point from which point a lateral will be driven to the North, up bedding, to cut the ore zone on the North side of the main quartz fissure as indicated on the surface. This lateral will probably be about 125-150 feet in length and should demonstrate the nature of this ore zone.

Form MF-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.

JUL 13 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1954 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals Sunston
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $170,424.00 Government Participation: 75 % Amount, $127,818.00

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:						WBM
Drilling						
Bulldozing						
Crosscutting						
Drifting	6,520.00		6,520.00			
Timbering	180.00		180.00			
(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						
Costs to 12/12/53 prior to Cont. No. 4		140,552.90	140,552.90			
(8) Contingencies (specify): Less Suspension of 51.5 ft @ 40.00, see attached.	- 2,060.00		- 2,060.00			
TOTALS	~~[illegible]~~ 4640.00	140,552.90	145,192.90			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date July 8, 1954 *Payee [illegible]
Per [signature] Title President

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

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

(Instructions on reverse)

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

$ 3480.00
Lloyd H. Sjolander
Authorized Certifying Officer
Signature
(Authorized Certifying Officer)

Date Vou. No. SF-07-Ca-3
(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. Idm-E248 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date July 12, 1954.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Region III

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date July 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-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED JUL 13 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1954 Docket No. DMEA 2082 Contract No. Idm-E 248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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.	6,520.00	163.0	6,520.00	163.0	40.00	700.0	$40.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Timbering	Ft.	180.00	36.0	180.00	36.0	6.00	200.0	$ 6.00
Trenching Assaying	$						$	148.00
Test Pits								
Roads and Trails								
*Costs to 12/12/53				111,125.50				
Less Suspension		-2,060.00		-2,060.00				Total Costs Authorized by Contract
Total Distributed Costs		4,640.00		113,185.50				
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
*Costs to 12/12/53				29,427.40				
Total Costs		6,700.00		145,192.90				

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

Date July 8, 1954 Operator MT. WHEELER MINES, INC.

Per James B. Williams Title President

Remarks: *Costs to 12/12/53 prior to Amendment No. 4, dated May 20, 1954.

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
Month of June, 1954
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount - $170,424.00
Government Participation- 75%

The period covered by this report is from May 24, 1954, to June 30, 1954, inclusive, during which 34 shifts were worked on the Exploration Project.

1. Preparatory Work

900 feet of 2" airline was run from the portal of the Pole Adit to the North zone; a hundred gallon water pressure tank was installed; the waste dump was prepared and the drills, cars and mucking machine were moved up.

2. Exploration Work (See Map C100 Attached)

Total advance for the period was 163.0 feet. The drift was started within the wide E-W quartz fissure about 5 feet above the lime-shale contact and was driven 46.0 feet on a due East course. At this point the shale had risen to a position about 3 feet above the bottom of the drift. The drift was then turned to a S 83° E course for 23.0 feet and to a S 78° E course for 13.0 feet but the shale kept slowly rising. The drift was then turned to a S 68° E course for 81.0 feet and the shale fell slowly. In the face at +163.0 feet the shale is in the bottom of the drift. It may now be possible to turn the drift to a S 70° E course for the remainder of the drive.

The quartz fissure zone has proved to be much wider than was originally observed on the surface. The drift did not leave it until the 92.0 foot point was reached, indicating a width of some 20 feet. At this point a fairly large N 30° W fault cut the drift. At 119.0 feet another strong N 30° W fault was cut, beyond which a heavy ankerite mud replaced the entire bed. The ground became very heavy and a large area caved in, which necessitated 36.0 feet of timbering. At 134.0 a strong N 75° E fault fissure cut the drift and at 152.0 feet still another N 30° W fault was cut. This was a very bad area to mine through. Beyond this point the mud fairly well disappeared and the Wheeler limestone bed became fairly regular, altho badly broken. In the face two N 85° E quartz fissures were cut which showed scheelite mineralization. It would appear that from this point on normal conditions within the bed might be expected.

It is anticipated that the drift will be extended to the 250 - 300 foot point where a North and South crosscut will be run within the bed to determine the nature of the ore zones which are indicated on the surface. It is felt that crosscutting should not be done until the drift is well under cover so that undue surface influences may be avoided.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

Administrative Audit Difference Statement

Date: August 5, 1954
Payee's
Reference: Docket DMFA 2082
Mt. Wheeler Mines
Contract Idm E 248

Mt. Wheeler Mines, Inc.
P.O. Box 150
Salt Lake City 10, Utah

ATT: Mr. James D. Williams

Dear Mr. Williams

Upon examination of the above Payee's Reference, a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed	$ 26,060.00
Difference	$ 2,060.00
Amount Approved	$ 24,000.00

The reason for the difference was due to:

Costs included December, 1953

Phase B		
Crosscutting	651.5 ft @ $40.00	$26,060.00
Less: Maximum footage allowed under Amended Contract	600 ft @ $40.00	$24,000.00
Disallowance	51.5 ft @ $40.00	2,060.00

A Copy of June, 1954 MF-104 as it was passed for payment showing costs to 12/12/53 is attached for your information.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

L. H. Sjolander
Chief, Budget and Finance Branch
Region III

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

Mr. H. C. Miller
Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

JUL 15 1954

Re: Docket No. DMEA-2082, Tungsten
Mt. Wheeler Mines, Inc.
Mt. Wheeler Mine
White Pine County, Nevada
Contract No. Icm-E248

Dear Mr. Miller:

Reference is made to the December, 1953, Forms MF-104 and MF-104A applicable to the subject Exploration Project Contract.

It is noted that the Form MF-104 has been approved and vouchered in the full amount claimed by the Operator despite the fact that the Form MF-104 specifically indicates that the claim is based on performance of 1,249 feet of drifting and crosscutting. This is 49 feet in excess of the total of 1,200 feet authorized by the contract and specifically limited by the description of work under Exhibit "A" to "not in excess of 600 feet" in each of the Phases A and B of Stage II.

A review of the monthly Forms MF-104 and the Operator's narratives indicates the following footage as being applicable to Stage II:

	Laterals					
	No. 1	No. 2	No. 3	No. 4	No. 5	Total
Phase A:						
May	56.	-	59.	-	76.	191.
June	40.5	-	95.5	-	129.5	265.5
July	70.5	-	70.5	-	-	141.
	167.	-	225.	-	205.5	597.5
Phase B:						
July	-	21.	-	21.5	-	42.5
August	19.	34.5	36.5	39.	25.	154.
September	5.	51.	-	6.	34.5	96.5
October	-	56.5	-	-	130.	186.5
November	-	45.	-	-	59.	104.
December	34.	34.	-	-	-	68.
	58.	242.	36.5	66.5	248.5	651.5

From the foregoing tabulation it appears that the Operator has claimed and been paid for 51.5 feet of drifting and crosscutting in excess of the maximum of 600 feet authorized for Phase B. Accordingly, it is suggested that you check the indicated footage by Phases A and B and effect an appropriate correction, at the contract rate of $40.00 per foot, for any footage in excess of the 600 feet allowable for each phase. This correction may be accomplished by deduction on the first Form MF-104 submitted by the Operator for work performed under Stage III as authorized by Amendment No. 4 dated May 20, 1954.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

D. M. Larrabee

Member, Geological Survey

EDTalbert/ama 6-30-54

Copy to: Docket
Admr. Reading File
Operating Committee
Mr. R. W. Geehan, Room 3513
Mr. T. P. Thayer, Room 4205, GSA Bldg.
Mr. Martin
Mr. Chambers
Mr. Mayor
Region III (2)

Form MI-204 (Rev.)
(April 1952)

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

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

Month of December, 1953 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $141,076.00 Government Participation: 75 % Amount, $ 105,807.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WSM
Drilling						
Bulldozing						
Crosscutting	2,720.00	47,240.00	49,960.00			
Drifting						
Timbering		975.00	975.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase		13,881.90	13,881.90			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,101.52	1,101.52			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	33.00	227.00	260.00			
Payroll Taxes						
Liability Insurance						
Costs to 1/31/53 prior to amendment		75,476.00	75,476.00			
(8) Contingencies (specify):						
TOTALS	2,753.00	138,901.42	141,654.42			

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

Date Jan. 20, 1954 *Payee MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 2064.75

Signature [illegible] (Authorized Certifying Officer)

Date JUN 17 1954 Vou. No. SF-DMEA-45

(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. Idm-E248 in accordance with the terms of the contract.

Signature George H. Holmes, Jr. Title Mining Methods Research Engr. Date March 4, 1954.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. C. Miller Title Executive Officer DMEA Field Team Region III Date March 8, 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-R1151.1
Approval expires 6-30-53.

MAR 5 - 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 2082 Contract No. Ida-248
Operator's Name MT. [illegible] MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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								
Crosscutting	Ft.	2,723.00	68.0	49,960.00	1249.0	40.00	1200.0	40.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stoping~~ Timbering				975.00	65.0	15.00	136.0	15.00
~~Trenching~~ Assaying		33.00		260.00				569.00
Test Pits								
Roads and Trails								
Costs to 1/31/53				59,930.50				
TOTAL DISTRIBUTED COSTS		2,753.00	68.0	111,125.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				13,881.90				13,881.90
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,101.52				1,109.10
				15,545.50				15,545.50
TOTAL COSTS		2,753.00		141,654.42				30,536.50

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

Date Jan. 20, 1954 Operator MT. [illegible] MINES, INC.

Per James D. Williams Title President

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

REMARKS: Costs to 1/31/53 prior to amended contract dated May 11, 1953.

(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
Month of December, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E248
Contract Amount $141,076.00
Government Participation 75%

The period covered by this report is from December 1 to December 12, 1953, during which 10 shifts were worked underground on the Exploration Project. This constitutes the final report of work done under Contract Idm-E248 as amended May 11, 1953.

1. Exploration Work (See Map D-100$_6$ Attached)

Total advance for the month was 68.0 feet divided as follows -

A. No. 1 Lateral Area.

Advance for the period was 34.0 ft. on a N5°E course. The S70°E fissure cut at 137.0 to 144.0 ft., in the north drift, (reported in July, 1953, narrative) contained considerable scheelite as fissure ore but did not "make-out" into the limestone bedding. Another very strong E-W quartz fissure was cut at 164.0 feet. This also contained scheelite. It would appear that the 20 ft. zone between these two prominent quartz fissures might be developed into a productive ore zone by drifting East and West or raising into the upper portion of the Wheeler bed, since the condition of the limestone bedding in this area is very similar to that observed within the other ore zones.

B. No. 2 Lateral Area.

Advance for the period was 34.0 ft.; 15.0 ft. on a South course and two raises totaling 19.0 ft. As mentioned in the November, 1953, narrative, the quartz fissure cut at 57.0 ft. actually marked a fault which had dropped the North side. A 9.0 ft. raise was driven on this fissure and the displacement was measured at 5.0 ft. Scattered scheelite showings were observed in the bed but were somewhat obliterated by heavy ankerite mud which had replaced a good portion of the Wheeler bed on the North side. A second raise was driven at 95.0 ft. on two strong N85°E quartz fissures. Again, scattered scheelite mineralization was evident in the bed. No mud occurred in the bed which leads us to the conclusion that the N85°E fault at 57.0 ft. acted as a dam and that probably this accounted for the extreme mud conditions encountered in the area of No. 4 Lateral North. At the face of the lateral, + 95.0 ft., the shale was just above the back of the drift.

2. Additional Ore Milling

A study of the results obtained from the mining and milling program conducted in August and September, 1953, (Reported in MF-104 narrative for month of September, 1953) demonstrated clearly that in general the lower 3-4 feet of the Wheeler bedding is barren or very low grade, with the result that in driving the short exploration drifts Easterly with the ore zone on the lower shale contact, almost 50% dilution occurred. In order to determine the grade of ore which might be produced by selective mining, confined to the actual productive portion of the bedding, approximately 65 tons were so produced from Laterals "B" and No. 5. (These two Laterals were selected because of the ease of getting into the upper portion of the bed). The tonnage was limited because the mill was available for only a one week run.

Approximately 30 tons were produced from "B" Lateral and 35 tons from No. 5 Lateral. Metallurgical results were as follows:

65 tons of ore produced -
3,668 lbs. concentrate assaying 52.44% WO_3 = 1,923.5# WO_3 net

WO_3 recovery = $\frac{1,923.5}{65}$ = 29.59# WO_3 per ton = 1.48% WO_3

Tailing assay = 0.41% WO_3

Calculated assay of ore = 1.88% WO_3

Indicated mill recovery = 79.1%

These raw concentrates were taken to Bishop, California, for roasting and magnetic separation. The result of this upgrading was as follows -

Total WO_3 in raw concentrates $\frac{(3668)(.5244)}{20}$ = 96.17 units

Distribution of magnetic products:

Magnetic middling	830# @ 12.37%	5.13 units
G.S.A. grade con.	2838# @ 64.03%	90.86 units
Unaccounted for - loss		0.18 units
		96.17 units

From these results, we may fairly draw the following conclusions:

1. The assay results, reported in our MF-104 narratives, of ore broken in the exploration drifts Easterly within the ore zones have been approximately 50% low because of the significant dilution introduced by virtue of driving such drifts on the shale which introduced 3 ft. of barren bedding into the ore. Thus a 5' x 7' drift actually had but 4 ft. of ore co-mingled with 3 ft. of waste.

2. By mining above this 3 ft. barren zone a much higher grade of ore can be produced.

3. The upper portion of the Wheeler bed, not previously explored, contains high grade ore. (Plus 1.5% WO_3)

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, 1953 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $141,076.00 Government Participation: 75% Amount, $105,807.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WSM
Drilling						
Bulldozing						
Crosscutting (104')	4,160.00	43,080.00	47,240.00			
Drifting						
Timbering		975.00	975.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase		13,881.90	13,881.90			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,101.52	1,101.52			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	30.00	197.00	227.00			
Payroll Taxes						
Liability Insurance						
Costs to 1/31/53 Prior to Amendment		75,476.00	75,476.00			
(8) Contingencies (specify):						
TOTALS	4,190.00	134,711.42	138,901.42			

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

Date Dec. 15, 1953 *Payee MT. WHEELER MINES, INC.

Per [signature] Title President

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

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

(Instructions on reverse)

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

$3142.50

Signature [signature] (Authorized Certifying Officer)

Date JUN 17 1954 Vou. No. SF-DMEA-45

(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. Idm-E248 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Reg. III Date Dec. 21, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H.C.Miller Title Executive Officer DMEA Field Team Region III Date Dec. 29, 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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1953 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting	Ft.	4,160.00	104.0	47,240.00	1181.0	$40.00	1200.0	$40.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Timbering	Ft.			975.00	65.0	$15.00	136.0	$15.00
Assaying		30.00		227.00				$569.00
Test Pits								
Roads and Trails								
*Costs to 1/31/53				59,930.50				
TOTAL DISTRIBUTED COSTS		4,190.00	104.0	108,372.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				13,881.90				13,881.90
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,101.52				1,109.10
*Costs to 1/31/53				15,545.50				15,545.50
TOTAL COSTS		4,190.00		138,901.42				30,536.50

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

Date Dec. 15, 1953 Operator MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

REMARKS: *Costs to 1/31/53 prior to amended contract dated May 11, 1953.

(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

MT. WHEELER MINES, INC.
P. O. BOX 150
SALT LAKE CITY 10, UTAH

December 15, 1953

Mr. A. C. Johnson, Chief
Mining Division, Region III
United States Bureau of Mines
P.O. Box 1551
Reno, Nevada

Re: Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm- E 248
MF-104 Statement - November, 1953

Dear Mr. Johnson:

Enclosed are the original and four copies of our MF-104 Voucher for the month of November, 1953. Included also are the following-

1. Narrative Report of Progress
2. Monthly Progress Maps

Very truly yours,

MT. WHEELER MINES, INC.
By James D. Wilkinson
President

JDW-K

Enc.

MT. WHEELER MINES, INC.
P. O. BOX 150
SALT LAKE CITY 10, UTAH

December 15, 1953

Mr. A. C. Johnson, Chief
Mining Division, Region III
United States Bureau of Mines
P.O. Box 1551
Reno, Nevada

Re: Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm- E 248
MF-104 Statement - November, 1953

Dear Mr. Johnson:

Enclosed are the original and four copies of our MF-104 Voucher for the month of November, 1953. Included also are the following-

1. Narrative Report of Progress
2. Monthly Progress Maps

Very truly yours,

MT. WHEELER MINES, INC.
By James D. Williamson
President

JDW-K

Enc.

NARRATIVE REPORT
Month of November, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount $141,076.00
Government Participation-75%

The period covered by this report is from November 1 to November 30, 1953, during which 24 shifts were worked underground on the Exploration Project.

1. Exploration Work (See Map D-1006 Attached)

Total advance for the month was 104.0 feet divided as follows -

A No. 2 Lateral

Advance for the period was 45.0 feet on a South course; thus advancing the face of the lateral to a point 81.0 feet South of the Pole adit. The advance was started at +36 feet, in shale, with the limestone bed just above the back. At +52 feet the limestone came into the back of the drift as anticipated. At +57 feet a strong quartz fissure 8" wide, striking N 85° E and dipping 70° Northerly, was cut. There was approximately 5 feet vertical movement on this fault with the South side up. This, of course, moved the shale 5 feet higher so that the drift was again entirely in shale. Scattered scheelite showings were observed along the quartz fissure.

This lateral will be continued next month on its South course to the next E-W crossing and raises will be driven on both fissures into the Wheeler bedding. This work will be done at Company expense.

B No. 5 Lateral

Total advance for the period was 59.0 feet; 49.0 feet in the North drift and 10.0 feet Westerly on the first E-W ore crossing.

The North drift continued in the hard tight limestone for the full month's advance. No important E-W crossings were cut. It now appears that a relatively barren zone may exist between the ore zone at 120 feet and the middle zone exposed on the surface. The face of this North drift is approximately 150 feet South of the middle zone as projected. This drive should be completed to demonstrate the ore possibilities of the middle zone.

The West drift on the first ore crossing was driven 10.0 feet West. Three very prominent E-W fissures were exposed, all of which contained high grade scheelite. Bedded scheelite also shows within the limestone. Approximately 25 tons of ore placed in the stockpile was estimated at 0.5% WO_3.

How much ore?

2. Concentrate Sales

On November 9, 1953, the concentrates were trucked to Bishop, California, for roasting and magnetic separation at the Benware Concentrating Corp., P.O. Box 272, Bishop, California. A slight difference in weight developed between the sampler weight and mill weights reported in the September, 1953, MF-104. These were as follows (Mill Lots 2 and 3 were consolidated into Sampler Lot 2 since they were of the same grade and type) -

Mill Lot No.	Mill Wt. Lbs.	Sampler Lot No.	Sampler Wt. Lbs.	Assay % WO_3
1	2061.0	1	1998.0	58.57
2 3	1082.0) 3198.0)	2	4239.0	23.42
4	4500.0	3	4200.0	43.55
	10,841.0		10,437.0	

Weighted Average Assay	38.25% WO_3
Total Contained WO_3	3992 Lbs.

After roasting and magnetic separation these lots were upgraded as follows -

Sampler Lot No.	Weight	Assay % WO_3
1	1675.0	69.45
2	1866.0	50.01
3	2721.0	65.99
	6262.0	

Weighted Average Assay	62.15% WO_3
Total Contained WO_3	3892 Lbs.
Loss in Magnetic Rejects 100.0 Lbs. WO_3 =	2.5%

The assays for impurities were below the allowable G.S.A. maximums for all except phosphorus, which showed a weighted average of 0.146% P. This would have imposed a penalty of $2.40 per unit ($0.25 per 0.01 in excess of 0.05%; i.e., 9.6 x 0.25 = $2.40); however, since our control assays showed considerably less phosphorus, it was decided to blend our concentrates with an equal weight of phosphorus-free concentrates and ship to G.S.A, in South San Francisco. Final payment will be made on the basis of the G.S.A. phosphorus assay. To date this has not been reported to us. However, a preliminary settlement, charging 1/2 the phosphorus penalty was made, amounting to $11,242.70, on the following basis -

Gross pay for 194.6 units @ $61.00		$11,870.60
Less:		
Roasting and magnetic separation	$223.83	
Sampling	31.24	
Assaying	54.00	
Phosphorus penalty	318.83	627.90
Net Provisional Settlement		$11,242.70

These concentrates were purchased by Mr. C. W. Jones, 108 South Warren Street, Bishop, California, on November 14, 1953.

It is anticipated that the G.S.A. phosphorus results will be received at an early date and at that time a complete financial statement will be made covering all costs and charges incurred in the production of these concentrates. This statement will be appended to the December MF-104 report.

REQUISITION NO. 61653

THIS PACKAGE CONTAINS PHOTOSTAT PAPERS, IF IT SHOULD BE LOST OR MISLAID IN ANY WAY THE FINDER SHOULD RETURN SAME IMMEDIATELY TO THE DUPLICATING SECTION. ROOM 1061, INTERIOR DEPARTMENT BUILDING.

PLEASE RETURN ENVELOPE FOR RE-USE

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

ACCOUNTS DEC 2 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED 1953

Month of October, 195 3 Docket No. DMEA 2082 Contract No. Idm-E248

Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten

Address P. O. Box 150, Salt Lake City 10, Utah

Contract Amount, $ 141,076.00 Government Participation: 75% Amount, $ 105,807.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:		SUPPLEMENTAL				WSM
Drilling						
Bulldozing						
Crosscutting		43,080.00	43,080.00			
Drifting						
Timbering		975.00	975.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase	6,040.00	7,841.90	13,881.90			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,101.52	1,101.52			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		197.00	197.00			
Payroll Taxes						
Liability Insurance						
Costs to 1/31/53 prior to amendment		75,476.00	75,476.00			
(8) Contingencies (specify):						
TOTALS	6,040.00	128,671.42	134,711.42			

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

Date Nov. 27, 1953 *Payee MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 4530 00

J. J. Renner
Authorized Certifying Officer

Signature
(Authorized Certifying Officer)

Date DEC 3 1953 Vou. No. SF-Dm Ca-25

(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. Idm-E248 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Region III Date November 30, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date December 1, 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

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

ACCOUNTS DEC 2 1953
Defense Minerals Administration
RECEIVED

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1953 Docket No. DMEA 2082 Contract No. Ydn-9248
Operator's Name MT. MERCER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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		SUPPLEMENTAL						
Crosscutting				43,080.00	1077.0	40.00	1200	40.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stoping~~ Timbering				975.00	65.0	15.00	136	15.00
~~Trenching~~ Assaying				197.00				569.00
Test Pits								
Roads and Trails								
*Costs to 1/31/53				59,930.50				
TOTAL DISTRIBUTED COSTS				104,182.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		6,040.00		13,881.90				13,881.90
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				1,101.52				1,109.10
*Costs to 1/31/53				15,545.50				15,545.50
TOTAL COSTS		6,040.00		134,711.42				30,536.50

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

Date Nov. 27, 1953 Operator MT. MERCER MINES, INC.

Per James D. Williams Title President

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

REMARKS: *Costs to 1/31/53 prior to amended contract dated May 11, 1953.

(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

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

40U

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

November 18, 1953

WSM

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Operators' Monthly Progress Reports - Forms MF-104 and MF-104A

Enclosed herewith are two copies of each of the subject reports received from the following operators as listed below. These reports have been audited and passed to the Treasury for payment.

Contract No.	Operator	Report dated	Period covered
Idm-E10 DMA-420X	Bristol Silver Mines Co.	Sept. 26, 1953	September 1953
Idm-E44 DMA-1377X	Black Rock Mining Corp.	Nov. 5, 1953	September 1953
Idm-E248 DMEA-2082	Mt Wheeler Mines, Inc.	Nov. 5, 1953	October 1953
Idm-E508 DMEA-2362	Melvin M. Ford and Oscar Lipnitz (Abaca Mining Co.)	Oct. 30, 1953	October 1953
Idm-E521 DMEA-2925	Stanley F. O'Leary	Nov. 2, 1953	September 1953
	Margaret O'Leary and Fred Anderson	Nov. 2, 1953	October 1953
Idm-E581 DMEA-2708	Uranium Mines, Inc	Oct. 27, 1953 Nov. 10, 1953	September 1953 October 1953

H. C. Miller, Executive Officer
DMEA Field Team, Region III

Attachments

Copy to: E. H. Bailey, USGS

Form ME-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

ACCOUNTS NOV - 9 1953
Defense Minerals Administration
RECEIVED NOV 9 1953

Month of October, 1953 Docket No. DMEA 2082 Contract No. 10-248
Operator's Name ST. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $141,076.00 Government Participation: 75 % Amount, $ 105,807.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting	7,460.00	35,620.00	43,080.00			
Drifting						
Timbering		975.00	975.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase	6,040.00	7,841.90	13,881.90			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		1,101.52	1,101.52			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	3.00	194.00	197.00			
Payroll Taxes						
Liability Insurance						
Costs to 1/31/53 prior to Amendment		75,476.00	75,476.00			
(8) Contingencies (specify):						
Less suspension (see notice attached).				7141.52		
TOTALS	13,503.00	121,208.42	134,711.42	6361.48	121,208.42	127,569.90

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Nov. 5, 1953 *Payee ST. WHEELER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 4771.11

Signature Royce H. Grafmuller
Authorized Certifying Officer
(Authorized Certifying Officer)

Date NOV 16 1953 Vou. No. SF-DMEA-21

(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. Idm-E248 in accordance with the terms of the contract.

Signature George H. Holmes, Jr. Title Mining Methods Research Engr. Date Nov. 6, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date November 9, 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

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 29 1953
ACCOUNTS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1953 Docket No. DMEA 2082 Contract No. [illegible]
Operator's Name [illegible], INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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								
Crosscutting	Ft.	7,460.00	186.5	43,080.00	1077.0	40.00	1200	40.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stoping Timbering	Ft.			975.00	65.0	15.00	136.0	15.00
Trenching sawing		3.00		197.00				569.00
Test Pits								
Roads and Trails								
Costs to 1/31/53				59,930.50				
Total Distributed Costs		7,463.00	186.5	104,182.50				Total Costs Authorized by Contract
Operating Equipment Purchased		~~4,040.00~~		~~13,881.90~~ 7841.90				
Initial Rehabilitation and Repairs		-1,101.52						
New Buildings, Improvements, etc.				~~1,101.52~~				
Costs to 1/31/53				~~15,545.50~~				
Total Costs		~~13,503.00~~ 6,361.48		~~134,711.42~~ 127,569.90				

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

Date Nov. 5, 1953 Operator [illegible], INC.

Per James D. Williams Title President

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

Remarks: Costs to 1/31/53 prior to amended contract dated May 11, 1953.

(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
Month of October, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount $141,076.00
Government Participation- 75%

The period covered by this report is from October 1 to October 31, 1953, during which 26 shifts were worked underground on the Exploration Project. Early storms on October 19 and 22, deposited a total of 24 inches of snow at the Pole Adit. No time was lost on this account, however.

1. Exploration Work (See Map D-1006 Attached)

Total advance for the month was 186.5 feet divided as follows -

A No. 2 Lateral Area

Advance for the period was 56.5; of which 23.5 feet was on a N 5° W course up bedding dip; 25.0 feet Easterly within the first ore zone and 8.0 feet Easterly within the second ore zone.

The drive up bedding dip cut an 8-10 ore zone, full drift height thickness, of good grade scheelite ore. In the remaining 15 feet of drive scattered scheelite bearing cross fractures were observed. A drift was driven 8.0 feet Easterly in this second ore zone and showed ore throughout.

A drift was driven 25.0 feet Easterly within the first ore zone and was in good ore the entire distance. At 17 feet a strong N-S fault was cut which dropped the East side approximately 9.0 feet. This fault did not cut off the bedded ore; the bedded scheelite mineralization continued Easterly in the upper portion of the Wheeler bed.

Approximately 90 tons of ore from these two Easterly drifts within the ore zones were placed in the stockpile. Estimated grade was about 1%. Assays from the car grab samples have not been received but will be reported next month.

B No. 5 Lateral Area

Advance for the period was 130.0 feet on a North course. This drive continued up bedding dip with the bottom of the drift on the lime-shale contact. A few scattered cross fractures showed a little scheelite but were of little importance as such. The limestone bed throughout this area is very tight and without any appreciable mineralization. A mud-filled North trending fissure (fault?) crossed flatly across the drift from 272 to 342 feet. Some displacement on the East side was suggested but could not be determined accurately. At the end of the month, after this North trending fissure passed out the West side of the drift, considerable ankerite mineralization came into the bottom portion of the bed and the lime-

stone became softer. This may mean we are approaching an E-W ore zone.

2. Deposition of Concentrates

We were unable to secure roasting and magnetic separation time at Bishop, California, during the month of October. A definite commitment has now been made for the week of November 9-14. A full financial report on the milling operation will be completed during November.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 23 1953

Administrative Audit Difference Statement

Date: November 17, 1953
Payee's
Reference: Contract Idn-[illegible] 268
Docket [illegible]
Form 57-104 [illegible]

St. Charles Mines, Inc.
219 Felt Bldg.
Salt Lake City, Utah

Gentlemen:

Upon examination of the above Payee's Reference, a difference was found which we do it necessary to request your use and accordingly:

Amount Claimed	$ 15,403.00
Difference	$ 7,141.52
Amount Approved	$ 8,261.48

The reason for the difference was due to:

Suspended, pending clarification by the Washington Office.

(4)	Operating Equipment Truck	$5,040.00
(5)	New Buildings, Improvements, etc.	1,101.52
	Total	$7,141.52

Form 57-104 covering the month of October has been passed for payment in the amount of $4,771.11.

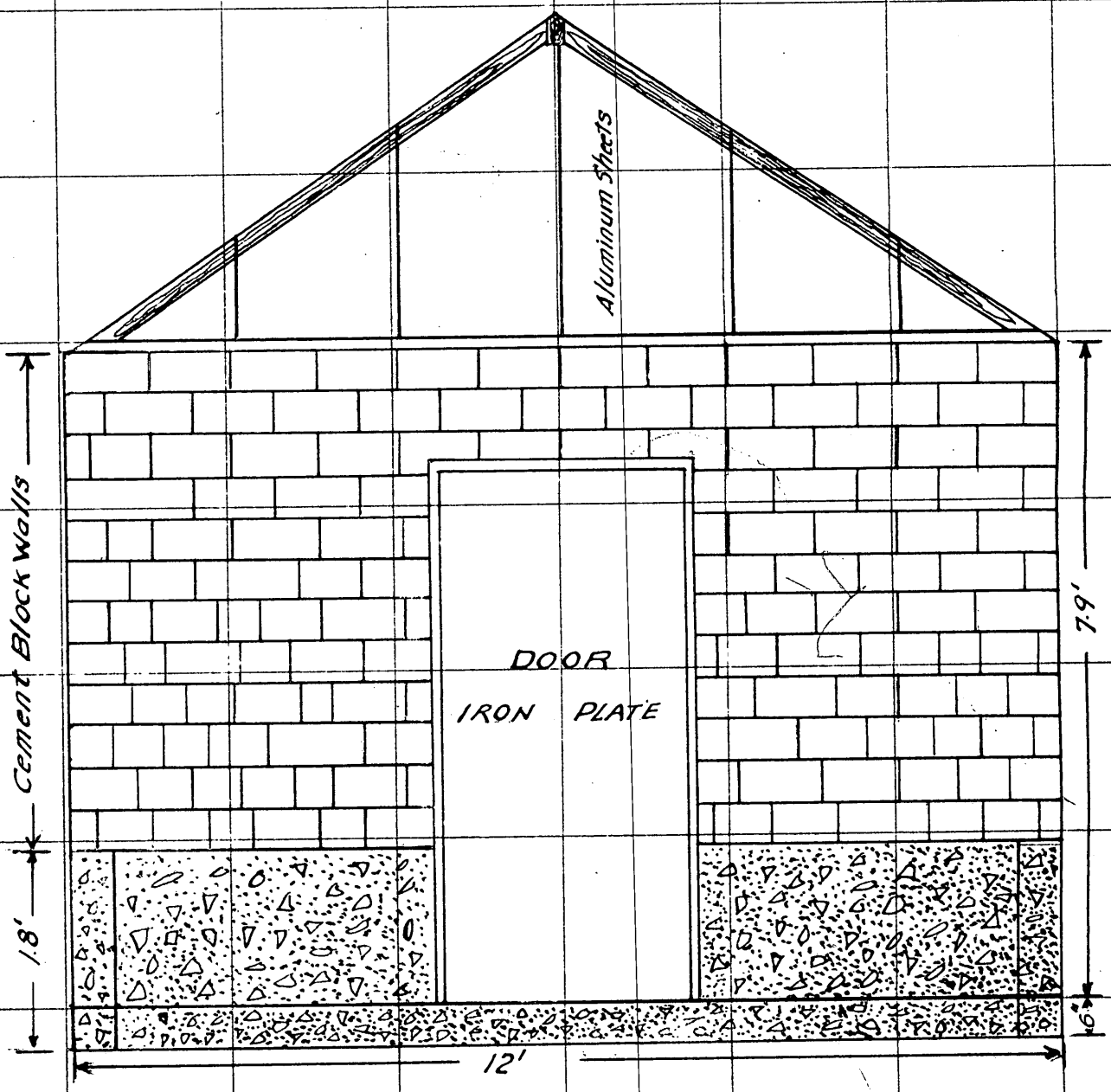
Any protests for deductions made above must be supported by the original of this form

Very sincerely yours,

[illegible]

A. J. Penner
Chief, Administrative Division
Region III

Mt.Wheeler Mines,Inc. (Tungsten)
White Pine County,Nevada
Contract No. Idm-E 248 (Amended)



Powder House
West End Elevation
Bldg. size: 12 ft. x 12 ft.

"ALBANENE" No. 1000M A&E CO., N.Y.
REG. U.S. PAT. OFF

Archive 7-101

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

OFFICIAL BUSINESS

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

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

October 28, 1953

Memorandum

2082

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Operators' Monthly Progress Reports - Forms MF-104 & MF-104A

Enclosed herewith are two copies of each of the subject reports received from the following operators as listed below. These reports have been audited and passed to the Treasury for payment.

	Contract No.	Operator	Report dated	Period covered
Code 500--	Idm-E187 DMA-1219X	The Glidden Company	Oct. 14, 1953	September 1953
Code 400--	Idm-E248 DMEA-2082	Mt. Wheeler Mines, Inc.	Oct. 16, 1953	September 1953

H. C. MILLER
H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachments

Copy to: L. H. Bailey, USGS

Contained

# 1	82.0	0.41%	33.6
# 3	120.0	0.50	60.0
# 5	105.0	1.10	115.5
Total tons	307	0.68	209.1
	54	1.36	73.5
	361	0.78	282.6

Recovered

82.0	x	0.15	12.3
120.0	x	0.32	38.4
105.0	x	0.93	97.5
307.0		0.48	148.2

$\frac{0.48}{0.68} = 70.6\%$ recovery

Form ME-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

ACCOUNTS OCT 22 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1953 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $141,076.00 Government Participation: 75 % Amount, $105,807.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting	3,860.00	31,760.00	35,620.00			
Drifting						
Timbering		975.00	975.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase		7,841.90	7,841.90			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	477.19	624.33	1,101.52			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	32.00	162.00	194.00			
Payroll Taxes						
Liability Insurance						
Costs to 1/31/53 prior to amendment		75,476.00	75,476.00			
(8) Contingencies (specify):						
TOTALS	4,369.19	116,839.23	121,208.42			

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

Date Oct. 16, 1953 Payee MT. WHEELER MINES, INC.

Per James D. Wheeler Title President

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

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

(Instructions on reverse)

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

$3276.89

Signature Lloyd H. Sjolander
Authorized Certifying Officer
(Authorized Certifying Officer)

Date OCT 26 1953 Vou. No. SF-DMEA-22

(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. Idm-E248 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Region III Date October, 20, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date October 21, 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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

ACCOUNTS OCT AUG 22 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1953 Docket No. DMEA 2082 Contract No. Ion-248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P.O. Box 150, Salt Lake City 10, 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								
Crosscutting	Ft.	3,860.00	96.5	35,620.00	890.5	40.00	1200.0	40.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Timbering	Ft.			975.00	65.0	15.00	136.0	15.00
Assaying		32.00		194.00				569.00
Test Pits								
Roads and Trails								
*Costs to 1/31/53				59,930.50				
TOTAL DISTRIBUTED COSTS		3,892.00	96.5	96,719.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				7,841.90				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		477.19		1,101.52				
*Costs to 1/31/53				15,545.50				
TOTAL COSTS		4,369.19		121,208.42				

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

Date Oct. 16, 1953 Operator MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

REMARKS: *Costs to 1/31/53 prior to amended contract dated May 11, 1953.

14 underground shifts lost during month because of compressor failure necessitating replacement of crank shaft.

(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
Month of September, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount - $141,076
Government Participation- 75%

The period covered by this report is from September 1 to September 30, 1953, during which 12 shifts were worked underground on the Exploration Project. A compressor failure, necessitating the replacement of a crankshaft, accounted for the loss of 14 underground shifts.

1. New Buildings - Improvements

The powder magazine was completed early in the month and all explosives transferred into it.

2. Exploration Work (See Map D-1006 Attached)

Total advance for the month was 96.5 feet divided as follows -

A No. 1 Lateral Area

Advance for the period was 5.0 feet in the East drift within the ore zone. The bedded ore continued to show full drift height thickness. Approximately 15 tons were placed in the stockpile.

B No. 2 Lateral Area

Advance for the period was 51.0 feet on a N 5° W course up bedding dip. Two ore zones were cut; one at start plus 82.0 feet and the other at 107.0 feet. The first ore zone was 12.0 wide and showed good ore for full drift height. This was estimated at plus 1.0% WO_3 and approximately 25 tons were placed in the stockpile. The last round of the month entered another bedded ore zone, a distance of 5.0 feet, with the face still in good ore. This was also full drift height thickness and approximately 10 tons placed in the stockpile was estimated at 1.0% WO_3. This drift will be continued through the second ore zone next month.

C No. 4 Lateral Area

Advance for the period was 6.0 feet on a North course. Heavy wet mud completely replaced the bed; numerous small caves occurred within this mud and the ground became very heavy and dangerous. The consistency of the mud was such as to make slushing impossible. Under these circumstances it was decided to abandon the remaining 22.0 feet of this drive.

D No. 5 Lateral Area

Advance for the period was 34.5 feet as follows -

1. The bedding drift East at 120 feet was continued an additional 10.0 feet in splendid ore. The thickness of this ore zone is plus 10.0 feet. Good ore still shows in the face, back and both sides of this drift.

2. At 157.0 feet a 3.5 foot raise was driven to provide head room for the second slusher station required to advance the North drift an additional 200.0 feet up bedding drift.

3. The North bedding drift was advanced 21.0 feet North. A few scattered scheelite cross fissures were cut but were of little importance. The limestone is quite tight and heavily dolomitized. This drive will be continued.

REPORT OF MILLING OPERATIONS
August-September, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten
Contract Idm-E 248

I Introduction

The small gravity concentrator, owned and operated by Mr. Robert Stopper, located approximately 11 miles South of the Mt. Wheeler mine, was rented for a period of 18 days (August 18-26, inclusive and September 2-10, inclusive), during which time 361 tons of ore were milled. This ore was produced from four exploration headings within the Wheeler productive limestone bedding (three under DMEA contract, i.e., Nos. 1-3-5 laterals, and one on Company account, i.e., No. B lateral), driven Easterly with full size 5'x7' drifts and without selection. The tonnages mined and milled were as follows -

"B"	Lateral	54.0	Tons
No. 1	Lateral	82.0	
No. 3	Lateral	120.0	
No. 5	Lateral	105.0	
		361.0	Tons

II Description of Mill

The Stopper mill is of the simplest design and construction and has a very low tonnage capacity, i.e., 1.0-1.2 tons per hour at -12 mesh grind. No means are available for direct sampling of crude ore. Crushing is done by an 8" x 12" Jaw crusher set at 3/4" discharge and grinding is accomplished by a 2' 6" x 8' rod mill. A minimum of screening is done to produce an unclassified table feed at essentially -12 mesh. The entire -12 mesh feed is put across a single Buchart table. Three cuts are made; a rougher concentrate, a middling which is returned to the rod mill for regrind, and a finished tailing. During the middle of the milling period a slime table was added to the circuit but this did little to increase total over-all recovery. However, Mt. Wheeler then furnished a 4' Sweco Separator which screened all of the rougher table tailings at -65 mesh and this -65 mesh fraction was added to the slime table feed. A very definite increase in recovery was then observed. The balance of the milling was done with this arrangement.

III Recovery

The ore from each exploration drift within the productive bedding was milled separately and the resulting concentrates segregated. Metallurgical results were as follows -

1. "B" Lateral South

54.0 Tons of crude ore produced 2061# concentrates assaying

58.57% WO_3 = 1207# WO_3 net

WO_3 recovery = $\frac{1207}{54}$ = 22.35# WO_3 per ton = 1.12% WO_3

Tailing assay = 0.20% WO_3

Calculated assay of ore = 1.36% WO_3

Indicated mill recovery = 85.4 % good

2. No. 1 Lateral South

82.0 Tons of crude ore produced 1082# concentrates assaying

22.60% WO_3 = 245# WO_3 net

WO_3 recovery = $\frac{245}{82}$ = 2.99# WO_3 per ton = 0.15% WO_3

Tailing assay = 0.26% WO_3

Calculated assay of ore = 0.41% WO_3

Indicated mill recovery = 36.5%

3. No. 3 Lateral North

120.0 Tons of crude ore produced 3198# concentrates assaying

23.70% WO_3 = 758# WO_3 net

WO_3 recovery = $\frac{758}{120}$ = 6.32# WO_3 per ton = 0.32% WO_3

Tailing assay = 0.18% WO_3

Calculated assay of ore = 0.50% WO_3

Indicated mill recovery = 63.2%

4. No. 5 Lateral North

105.0 Tons of crude ore produced 4500# concentrates assaying

43.55% WO_3	=	1960# WO_3 net
WO_3 recovery	=	$\frac{1960}{105}$ = 18.67# WO_3 per ton = 0.93% WO_3
Tailing assay	=	0.18% WO_3
Calculated assay of ore	=	1.10% WO_3
Indicated mill recovery	=	84.8%

Composite Results

			DMEA without "B"
361 Tons crude ore contained	0.78	Units WO_3 Per Ton	307T @ 0.68
Recovery in concentrates was	0.58	Units WO_3 Per Ton	0.48
Indicated over-all mill recovery was	74.4%		70.6 %

A 500# representative sample, containing proportionate weights of the four lots of concentrate thus produced, was taken to Bishop, California, for roasting and magnetic separation in order to determine the feasibility of upgrading to G.S.A. specification grade of 60% WO_3. The result of this test shows that a 63.5% WO_3 specification grade concentrate can be made by roasing at 1100° F followed by three pole magnetic separation.

IV Conclusions

The following conclusions are reasonably indicated from this mining and milling operation.

A Mining

1. The bedded ore of Mt. Wheeler can be mined full width and full height at an average grade of plus 0.7% WO_3 without selection. ///
2. This average grade can undoubtedly be raised to plus 1.0% by selectively mining. ///
3. This selective grade can certainly be further raised by providing hand sorting facilities prior to milling.
4. Substantial reserves of this grade of ore have been indicated by the exploration project under the DMEA program. ////

5. Further exploration of the productive Wheeler bed Northerly and Easterly is definitely indicated at this time and will add materially to the tungsten reserves of the mine.

B Milling

1. The scheelite ores of the Mt. Wheeler mine are amenable to concentration by simple gravity methods.

2. The iron and sulfur impurities of the concentrate can be easily removed by flash roasting followed by magnetic separation to produce a G.S.A. specification grade concentrate.

3. The bulk of the mill loss is due to overgrinding as is shown by the following typical analysis of the tailings -

Screen Size	Weight Percent	WO_3 Assay	Distribution WO_3 - %
- 12 + 20 Mesh	7.24	0.06	1.65
- 20 + 35 "	23.22	0.03	2.65
- 35 + 65 "	21.00	0.06	4.79
- 65 + 100 "	7.54	0.02	0.57
-100 + 200 "	9.75	0.07	2.59
-200 + 325 "	6.03	0.15	3.44
-325 "	25.22	0.88	84.31
Total	100.00		100.0
Tailing Assay		0.26	

4. Proper mill design and practice can increase both recovery and grade of rougher concentrate. A plus 85% recovery with a 45% WO_3 rougher concentrate is definitely indicated. Roasting and magnetic separation should upgrade this to approximately 67% WO_3. (Laboratory tests confirm this.)

N.B. These concentrates will be taken to Bishop, California, during the month of October, 1953, for roasting and magnetic separation, after which they will be marketed. A full financial report of this milling operation will be prepared thereafter and forwarded to the Field Team at San Francisco.

$11534 settlement
plus $1500
85% WO3
62.08% WO3

2082 - Map

Form [illegible] (Rev.) (April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

ACCOUNTS SEP 17 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1953 Docket No. DMEA 2022 Contract No. Idm-248

Operator's Name [illegible], Inc. Minerals Tungsten

Address P.O. Box 150, Salt Lake City 10, Utah

Contract Amount, $141,076.00 Government Participation: 75% Amount, $105,807.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting	6,160.00	25,600.00	31,760.00			
Drifting						
Timbering		975.00	975.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase		7,841.90	7,841.90			
Depreciation						
(5) Initial Rehabilitation and Repairs	175.60	448.73	624.33			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	41.00	121.00	162.00			
Payroll Taxes						
Liability Insurance						
Costs to 1/31/53 prior to amendment		75,476.00	75,476.00			
(8) Contingencies (specify):						
TOTALS	6,376.60	110,462.63	116,839.23			

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

Date Oct. 9, 1953 *Payee [illegible], Inc.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 4782.45

Signature Lloyd H. Sjolander (Authorized Certifying Officer)

Date SEP 21 1953 Vou. No. SF-DMEA-17

(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. Idm-2248 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Region III Date Sept. 15, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S. Ricker for H. C. Miller Title Executive Officer DMEA Field Team Region III Date Sept. 16, 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

Form MF-104A
(April 1952)

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

ACCOUNTS SEP 17 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1953 Docket No. DMEA 2082 Contract No. Ida-248
Operator's Name Mr. [illegible] Mines, Inc. Minerals Tungsten
Address P.O. Box 150, Salt Lake City 10, 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								
Crosscutting	Ft.	6,160.00	154.0	31,760.00	794.0	40.00	1200.0	40.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
~~[illegible]~~ Timbering	Ft.			975.00	65.0	15.00	136.0	15.00
~~[illegible]~~ Assaying		41.00		162.00				569.00
Test Pits								
Roads and Trails								
*Costs to 1/31/53				59,930.50				
TOTAL DISTRIBUTED COSTS		6,201.00		92,827.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				7,841.90				13,881.90
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		175.60		624.33				1,109.10
				15,545.50				
TOTAL COSTS		6,376.60		116,839.23				

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

Date Sept. 9, 1953 Operator Mr. [illegible] Mines, Inc.

Per [signature] Title President

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

REMARKS: *Costs to 1/31/53 prior to amended contract dated May 11, 1953.

(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

DEPARTMENT OF THE INTERIOR
Bureau of Mines
RECEIVED
SEP 23 1953

NARRATIVE REPORT
Month of August, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount - $141,076.00
Government Participation - 75%

The period covered by this report is from August 1 to August 31, 1953, during which 22 shifts were worked underground on the Exploration Project.

1. New Buildings - Improvements

The concrete foundation for the powder magazine was poured. The structure will be completed at an early date.

2. Exploration Work (See Map D-1006 Attached)

Total advance for the month was 154.0 feet divided as follows -

A No. 1 Lateral Area

Advance for the period was 19.0 feet. The drift was driven Easterly on a S 80° E course, as specified under Stage "B", within the bedded ore. The bedding thus explored showed full drift height thickness of plus 7 feet and contained disseminated scheelite values throughout. All muck broken in this advance was milled. This is covered in Section 3 hereunder.

B No. 2 Lateral Area

Advance for the period was 34.5 feet on a N 5° W course. Two 4" quartz fissures showing good scheelite values were cut. At the close of the month the shale had risen to the bottom of the drift and the remaining drive will be up bedding dip keeping the shale in the bottom. It is estimated that the ore zone will be cut early next month.

C No. 3 Lateral Area

Advance for the period was 36.5 feet; 28.0 feet on a S 80° E course, 4.0 feet on a N 80° W course and 4.6 feet in the raise reported last month. The East and West drifts were driven within the bedded ore zone and exposed plus 7 feet of bedded ore throughout. The additional 4.5 feet of raise showed good bedded ore. The face of this raise is now 20.5 feet vertically above the lime-shale contact and indicates an ore thickness of plus 16 feet. All muck broken was milled as set forth in Section 3 below.

D No. 4 Lateral Area

Advance for the period was 39.0 feet on a North course. The heavy ankerite mud continued throughout the advance and considerable stull and headboard

timbering was required. At start of month plus 22.0 feet a 2 foot wide quartz fissure, striking E-W, and containing high grade scheelite was cut. It is anticipated that this drift will cut the ore zone in the next few rounds.

E No. 5 Lateral Area

Advance for the period was 25.0 feet on an East course. The entire advance was in good bedded ore showing a thickness of plus 5 feet. All muck broken was milled as shown in Section 3 below.

3. Milling Exploration Ore

The Stopper mill at Minerva was rented for the purpose of concentrating the broken ore from the raises and Easterly bedding drives within the ore zone. As of August 31, the following tonnages had been milled -

"B" Lateral	54.0	Tons
No. 1 Lateral	82.0	
No. 3 Lateral	120.0	
	256.0	Tons

The milling of ore from No. 5 Lateral will be completed about September 10, and will amount to approximately 145 tons, making a total mill campaign of some 400 tons. Each area has been milled separately with the resulting concentrates segregated so that the recoverable assay for each area may be shown. These will be reported next month when all the assays are completed.

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

OFFICIAL BUSINESS

(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. [illegible] in accordance with the terms of the contract.

Signature A. G. Johnson Title Chief, Mining Div. Region III Date Aug. 18, 1953.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Filler Title Executive Officer DMEA Field Team Region III Date August 18, 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

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

Budget Bureau No. 42-R036.3.
Approval expires 6-30-53.

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

ACCOUNTS AUG 18 1953

Month of July, 1953 Docket No. DMEA 2082 Contract No. Idm-5248
Operator's Name MT. SHELEL MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $141,076.00 Government Participation: 75 % Amount, $105,807.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form } Contracts:						WSM
Drilling						
Bulldozing						
Crosscutting	7,340.00	18,260.00	25,600.00			
Drifting						
Timbering	225.00	750.00	975.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase	5,065.00	2,776.90	7,841.90			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.		448.73	448.73			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	26.00	95.00	121.00			
Payroll Taxes						
Liability Insurance						
Costs to 1/31/53 prior to amendment		75,476.00	75,476.00			
(8) Contingencies (specify):						
TOTALS	12,656.00	97,806.63	110,462.63			

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

Date Aug. 8, 1953 *Payee MT. SHELEL MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 9492.00

Signature _____ (Authorized Certifying Officer)

Date AUG 1953 Vou. No. SE-DMEA-7

(See other side)

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

ACCOUNTS AUG 18 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1953 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting	ft.	7,340.00	183.5	25,600.00	640.0	$40.00	1200	$40.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Timbering	ft.	225.00	15.0	975.00	65.0	$15.00	136	$15.00
Assaying		26.00		121.00				$569.00
Test Pits								
Roads and Trails								
*Costs to 1/31/53				59,930.50				
TOTAL DISTRIBUTED COSTS		7,591.00		86,626.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		5,065.00		7,841.90				13,881.90
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				448.73				1,109.10
*Costs to 1/31/53				15,545.50				
TOTAL COSTS		12,656.00		110,462.63				

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.

Date Aug. 8, 1953 Operator MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

REMARKS: *Costs to 1/31/53 prior to amended contract dated May 11, 1953.

(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
Month of July, 1953
To Accompany MF-104

INTERIOR
1953

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E248
Contract Amount $141,076.00
Government Participation 75%

The period covered by this report is from July 1 to July 31, 1953, during which 24 shifts were worked underground on the Exploration Project.

1. Preparation

Chutes and manways were installed in Laterals No. 2 and 4, slusher stations constructed and slushers were moved from Laterals No. 1 and 3 for the North bedding drives as authorized in Stage "B".

2. Exploration Work (See Map D-1006 attached)

Total advance for the month of 183.5 feet divided as follows:

A No. 1 Lateral area (Stage A)

Advance for the period was 70.5 feet; 61.5 feet on a N. 3° E. course and 9.0 feet of raise in ore. The drift continued through the quartz-scheelite fissure zone reported last month at interval 57-67 feet, to 82 feet, making a total ore zone width of 25 feet. At 82 feet a 5' fault, striking N. 85° E. and dipping 50° Northerly terminated the ore. This fault raised the North side approximately 2 feet. At 101 feet a 1.5' E-W fault dipping 80° Southerly was cut which raised the North side about 1'. At this point a mud-filled N. 5° W. fissure, dipping 85° Easterly came in and continued flatly across the drift finally running out on the West side at 132 feet. At 122 feet an E-W quartz fissure having a vertical dip was cut. This showed about 4" of good scheelite mineralization. At 137 feet (the position of the face at the conclusion of Stage "A") a very strong S. 70° E. fissure was cut which showed very good scheelite. It appears that this is the start of another E-W bedded ore zone and it will be requested that this North drive be continued a short distance to demonstrate this possibility.

A raise was run 9' vertically above the back of the drift at 63 feet, (this position corresponds to the location given in paragraph 1 of the "Approval to Proceed Under Phase B" dated July 22, 1953 for the first 25' drift on ore 50' North of the Lateral raise) all in very good ore. These two raise rounds broke an estimated 40 cars (about 30 tons) of ore which grab samples 1.74% WO_3. The face of the raise is 16 feet above the lime-shale contact in the bottom of the drift and exposes a vertical bedded ore thickness of plus 12 feet with the face still showing very good ore. In all probability this ore will continue to the upper shale, thus showing that the entire 22' Wheeler bed has been mineralized with scheelite in this area.

(1)

Narrative Report - Month of July, 1953 #2

B No. 2 Lateral Area (Stage B)

Advance for the period was 21.0 feet on a N. 5° W. course. The drift passed over the Pole Adit without difficulty although some timbering may be necessary in the adit later on. The drift was started about 7 feet above the lime-shale contact and will be driven flat until the shale comes in the bottom, after which it will be inclined up dip on the shale. Some scattered scheelite was observed in the bed, but nothing of importance was cut in this initial advance. The drift will be continued Northward.

C No. 3 Lateral Area (Stage A)

Advance for the period was 70.5 feet; 61.5 feet on a N. 8° E. course and 9.0 feet of raise in ore. The bedded ore zone reported in the face at the end of last month did not develop as anticipated. The width amounted to about a foot of good ore. At 143 feet a 4" quartz fissure was cut which showed good scheelite values. At 166 feet another quartz fissure was cut. This fissure was about 8" wide and contained very good ore. In the interval between these two fissures a N-S fissure cut flatly across the drift and scattered scheelite was observed in the bed on the West side. Some work westerly in this area may develop another ore zone.

A raise was run 9' vertically above the back of the drift at 27 feet, (this position corresponds to the location given in paragraph 3 of the "Approval to Proceed Under Phase B" dated July 22, 1953 for the 25' drift on ore 20 feet North of the lateral raise) all in very good ore. These two raise rounds broke an estimated 30 cars (about 25 tons) of ore which grab sampled 1.56% WO_3. The face of the raise is 16 feet above the lime-shale contact and exposes a vertical bedded ore thickness of plus 12 feet with the face still showing good ore. As in No. 1 raise this ore may continue to the upper shale. (2)

D No. 4 Lateral Area (Stage B)

Advance for the period was 21.5 feet; 12.5 feet on a N-S course and 9.0 feet Westerly. The West drive ran into a solid face of ankerite mud which was almost impossible to slush out. This has been stopped temporarily in favor of the North drive.

The North drift broke into a full face of ankerite mud showing good scheelite values. Several E-W quartz fissures were cut and all contained good scheelite. This heavy mud makes the advance very difficult and obscures the geology to the point where it is almost impossible to map. However, this North drift will be completed according to plan. There is no doubt but that important ore disclosures will result from this exploration. ¿No?

Omea 2082

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

OFFICIAL BUSINESS

402

JUL 20 1953

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

July 15, 1953

Memorandum

WSM

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Operators' Monthly Reports - Forms MF-104 and MF-104A

Enclosed herewith are two copies of each of the subject reports received from the following Operators as listed below. These reports have been audited and passed to the Treasury for payment.

Contract No.	Operator	Report dated	Period covered
Idm-E248 DMEA-2082	Mt. Wheeler Mines, Inc. " " " "	2/24/53 6/6/53	January 1953 May 1953
Idm-E295 DMEA-2309	Comet Mines, Inc.	6/17/53	May 1953
Idm-E369 DMEA-2478	New Idria Mining & Chemical Company	6/18/53	May 1953
Idm-E404 DMEA-66	Ely Valley Mines, Inc.	6/11/53	May 1953
Idm-E424 DMEA-2441	L. D. & Mary R. Foreman & Ida L. Cannon	6/5/53	May 1953
Idm-E455 DMEA-1953	Frank Bullock	6/22/53	May 1953
Idm-E457 DMEA-2512	Coranda Corporation	May 1,(?)1953	May 1953

H. C. MILLER

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachments

Copy to: E. H. Bailey, USGS

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

RECEIVED JUL 28 1953

Month of June, 1953 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $ ~~43,600.00~~ 141,076.00 Government Participation: 75 % Amount, $ ~~19,200.00~~ 105,807.00

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:						WSM
Drilling						
Bulldozing						
Crosscutting	10,620.00	7,640.00	18,260.00			
Drifting						
Timbering	300.00	450.00	750.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase		2,776.90	2,776.90			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	443.73		443.73			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	95.00		95.00			
Payroll Taxes						
Liability Insurance						
Costs to 1/31/53 Prior to Amendment		75,476.00	75,476.00			
(8) Contingencies (specify):						
TOTALS	11,463.73	~~10,866.90~~ 86,342.90	~~22,330.63~~ 97,806.63			

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

Date July 8, 1953 *Payee MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 8597.80

Signature Lloyd H. Sjolander
Authorized Certifying Officer
(Authorized Certifying Officer)

Date JUL 22 1953 Vou. No. SF-DMEA-3

(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. [illegible] in accordance with the terms of the contract.

Signature [illegible] Title Chief, [illegible] Div. Date July 15, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date June 16, 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

Form MF-104A
(April 1952)

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

ACC[illegible] JUL 17 1953 [illegible] Interior
[illegible] Administration

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

JUL 20 1953

Month of June 195 3 Docket No. DMEA 2082 Contract No. Idn-1248
Operator's Name MT. [illegible] MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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								
Crosscutting	Ft.	10,620.00	265.5	18,260.00	456.5	40.00	1200	40.00
Raising								
Shafts								
Winzes								
Drilling: Core Costs to 1/31/53				59,930.50				
Churn								
Auger								
~~[illegible]~~ Timbering	Ft.	300.00	20	750.00	50	15.00	136	15.00
Trenching								
Test Pits								
Roads and Trails								
Misc. - Assaying		95.00		95.00				569.00
TOTAL DISTRIBUTED COSTS		11,015.00		79,035.50 ~~[illegible]~~				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				2,776.90				13,881.90
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		448.73		448.73				1,109.10
Costs to 1/31/53				15,545.50				
TOTAL COSTS		11,463.73		~~22,330.63~~ 97,806.63				$14,991.00

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 July 8, 1953 Operator MT. [illegible] MINES, INC.

Per James D. Williams Title President

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT
Month of June, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E248
Contract Amount $65,600.00
Government Participation 75%

The period covered by this report is from June 1, to June 30, 1953, during which 28 shifts were worked underground on the Exploration Project.

1. Preparation

Four 5 ft. by 7 ft. timber sets, with 8" x 8" posts and caps and 3" x 12" lagging, were installed on the Pole Adit where the bedding drift from No. 1 Lateral-South crossed over on its northward course.

The site for the powder magazine was prepared and materials for its construction were delivered on the job.

2. Exploration Work (See Map D-1006 Attached)

Total advance for the period was 265.5 feet, divided as follows -

A No. 1 Lateral Area

Advance for the period was 40.5 feet on a N 3° E course. At 37 to 43 feet the drift passed over the Pole Adit without difficulty. At 43 to 48 feet a series of nearly E-W quartz fissures were cut which made a 5 foot wide ore zone; 15 cars of which grab sampled 0.23% WO_3 and were placed in the stockpile. At 57 to 61 feet another series of E-W fissures were cut and at 61 to 67 feet a solid quartz fissure 6 feet wide, striking E-W with a nearly vertical dip, was cut. This 10 foot zone, from 57 to 67 feet, averaging plus 7 feet in thickness, was all good scheelite ore. Forty-two cars placed in the stockpile grab sampled 0.36% WO_3. This bedding drift will be continued northward on its present course to cut additional E-W ore zones as indicated by surface geology.

B No. 3 Lateral Area

Advance for the period was 95.5 feet on a N 8° E course. From 41 to 79 feet the bedding was very tight and only a few scattered E-W crossings were cut. These did, however, show high grade scheelite but widths were only a few inches. At 80 feet a strong fault, striking N 85° E and dipping 85° northerly was cut. This raised the north side about 3 feet. At the same point a N 15° E fissure with an almost vertical dip was encountered. This fissure was 2-3 feet wide and filled with ankerite mud. The bed on both sides was entirely replaced with the same mud. The fissure cut very flatly across the drift and ran out on the east side at 127 feet. In this zone, from 80 to 127 feet, the bedding is entirely obliterated and very little scheelite was observed. From 127 to 136.5 feet the

bed became regular again and a series of E-W quartz fissures were cut, all of which contained scheelite. At the end of the month the bedding in the face showed sufficient scheelite to indicate the beginning of another ore zone. This drift will be continued northward.

C No. 5 Lateral Area

Advance for the period was 129.5 feet, of which 125 feet was north drift and 4.5 feet bedding raise in ore. From 76 to 116 feet the bedding was very tight and only a few E-W trending quartz fissures containing scattered scheelite were cut. At 116 to 134 feet a high grade E-W ore zone was cut. The ore made above breast high and 55 cars placed in the stockpile grab sampled 0.5% WO_3. A raise was run vertically in the center of this ore zone (from 119 to 126 ft.), full drift width, exposing a plus 7 foot bedded ore thickness. A grab sample of the clean muck pile thus broken assayed 1.76% WO_3. This appears to be a high grade ore body and indicates a possible mining grade of 2% WO_3.

From 134 to 139 feet an E-W trending fault fissure, dipping 80°-85° northerly, was cut which raised the north side about 2 feet. No ore was observed in this fissure. From 139 to 154 feet another E-W ore zone was cut. In this case, however, the limestone bedding was very hard and massive and the ore of lower grade. Thirty-six cars placed in the stockpile grab sampled 0.32% WO_3. Thus, in this area, the total width of the ore zone was 38 feet less 5 feet of fault, or a net of 33 feet. This is an important discovery.

From 154 to 186 feet nothing of importance was cut. Some mud showed in the bed and a few E-W fissures showed a little scheelite. From 186 to 201 feet several strong E-W trending quartz fissures were cut which contained good scheelite showings and the bed became much softer. This suggests the beginning of another ore zone.

It is not planned to extend this drift farther north for the present. As soon as Nos. 1 and 3 Laterals reach their respective footage objectives, and the ore bins are completed, exploration will be started east and west within the ore bed.

Form MF-10 (Rev.)
(April 1952)

Defense Minerals Administration
RECEIVED
JUL 20 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

ACCOUNTS JUN 18 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1953 Docket No. DMEA 2082 Contract No. Id-R40
Operator's Name MR. MINER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $65,600.00 Government Participation: 75 % Amount, $49,200.00

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
	* 141,076.00				* 105,807.00	
(1) ~~Independent~~ Short Form Contracts:						WSM
Drilling						
Bulldozing						
Crosscutting	7,640.00		7,640.00			7,640.00
Drifting						
Timbering	450.00		450.00			450.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase	2,776.90		2,776.90			2,776.90
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): Costs to 1/31/53					75,476.00	75,476.00
TOTALS	10,866.90		10,866.90	10,866.90	75,476.00	86,342.90

Total Costs to 1/31/53 Prior to Amended Contract Date 5/11/53

I certify that the above bill is correct and just and that payment therefor has not been received.
Date June 6, 1953 *Payee MR. MINER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 8150.18

Lloyd H. Sjolander
Authorized Certifying Officer

Signature (Authorized Certifying Officer)

Date JUL 13 1953 Vou. No. SF-DMEA-1

(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. [illegible] in accordance with the terms of the contract.

Signature [illegible] Title [illegible] Date [illegible]

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer DMEA Field Team Region III Date June 18, 1953

S. Ricker for R. C. Miller

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

ACCOUNTS JUN 18 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

JUL 20 1953

Month of May 1953 Docket No. DMEA 2082 Contract No. Id-248
Operator's Name W. [illegible] Mines, Inc. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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								
Crosscutting	Ft.	7,640.00	191.0	7,640.00	191.0	40.00	3200	40.00
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
~~Stripping~~ Timbering	Ft.	450.00	30.0	450.00	30	15.00	136	15.00
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		8,090.00		8,090.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		2,776.90		2,776.90				$13,881.90
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								1,109.10
TOTAL COSTS		~~10,866.90~~		~~10,866.90~~				$14,991.00

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 June 6, 1953 Operator W. [illegible] Mines, Inc.

Per James D. Wilson Title President

REMARKS: Exploration crosscutting in Chester ore bedding commenced May 11, 1953, with three northerly headings on one shift per day basis.

→ 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".

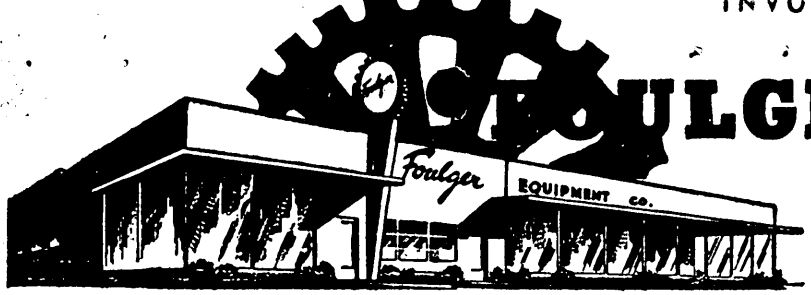
In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active 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

INVOICE

FOULGER EQUIPMENT CO.

6 10980



ENGINEERED SALES AND SERVICE

PHONE 6-4313 - 7-5459

Mailing Address
P. O. BOX 87

1361 South 2nd West • Salt Lake City, Utah

Date May 27, 1953

Sold To
Mt. Wheeler Mines, Inc.
P. O. Box 150
Salt Lake City 10, Utah

Your Order No.
Shipped Via Two from S.F. One -Interstate
On 4/29/53
Terms 2% 10 Days
Salesman Vincent

3 Joy Model S-211 D.D. Slusher Hoists Powered with 5 H.P. Turbinair Motor Complete with Vertical and Horizonal Roller and Rope Guides and all regular equipment. @ 980.00 ea. $2,940.00

	58.80
Less 2%	$ 2,881.20
Net	2776.90
Allowed by DMEA etc.	$ 104.30
Diff. for Co. a/c	

Shipped to Mt. Wheeler Mines, Inc.
Ely, Nevada

MT. WHEELER MINES, INC.

168-1	$ 2776.90
130-133	104.30
	2881.20

Jaw

Certified true copy of invoice of materials used on Exploration Project DMEA 2032 - Tungsten, Contract No. E2483, amended 5/11/53
MT. WHEELER MINES, INC.
By James H. Williams
Operator

Paid 5/27/53
Voucher No. 722
Check No. 701
Jaw

#722

No goods will be accepted for credit unless returned with our permission. Transportation charges must be prepaid. Date of our invoice must accompany goods. A 10% charge to cover handling will be made on all returned goods unless returned on account of being defective or error on our part. Goods made to order are unreturnable. No claims allowed after 15 days from date of invoice. Interest charged on all past due accounts.

NARRATIVE REPORT
Month of May, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E-248
Contract Amount - $65,600.00
Government Participation 75%

The period covered by this report is from May 11 to May 31, 1953, during which 17 shifts were worked underground on the Exploration Project.

1. Preparation

Sill drifts were run under the raises in Nos. 1, 3 and 5 Laterals, timbered chutes and manways built and three Joy S-211 double drum air slushers were installed. The necessary air, water and ventilation lines were run to the three working faces.

2. Exploration Work (See Map D-100-6 Attached)

Total advance for the period was 191.0 feet, divided as follows -

A No. 1 Lateral Area

Advance for the period was 56.0 feet, of which 20.0 feet were driven on a N 75° E course and 36.0 feet on a N-S course. Four prominent E-W quartz fissures were cut and the entire lower 7 feet of the Wheeler Bed, as explored, was mineralized with scheelite. During the initial advance, considerable dilution of the broken bedded ore by shale occurred as the result of driving through the shale into the ore bed. Other dilution occurred as the result of cutting out for timber and the slusher station. Notwithstanding this dilution, continuous grab samples from 90 cars as dumped into the stockpile assayed 0.26% WO_3. From this it is estimated that the lower 7 feet of the bed would assay approximately 0.6% WO_3 as mined. The South and East bedding drifts have full faces of ore and the North face shows spotted values.

B No. 3 Lateral Area

Advance for the period was 59.0 feet, of which 13.0 feet was driven on a N 50° E course and 46.0 feet on a N 5° E course. Numerous Easterly striking fissures were cut and the lower 8 feet of the Wheeler ore bed, as explored, contained commercial scheelite mineralization. Thirty cars from the East and South drifts grab sampled 0.73% WO_3. An important discovery was made in the North drift where a 15 foot wide shear zone was cut. The ore thickness in this area is +8 feet exposed with additional thickness indicated above the back of the drift. Sixty-four cars placed in the stockpile grab sampled 0.82% WO_3. Since the best grade of ore is in the top portion of the drift, i.e.,

breast high to the back, it is estimated that when fully exposed this area can be mined to produce a grade which will average 2.0-3.0% WO_3. The last round of the month in this North drift broke into additional E-W fissuring which contained high grade scheelite.

C No. 5 Lateral Area

Advance for the period was 76.0 feet; all on a North course. Several strong E-W fissures were cut and at start plus 31.0 to 3 5.0 feet a five foot wide E-W zone was cut. The bedded ore here was 7 feet in thickness and had an indicated grade of 0.75 WO_3 under the ultra violet light. This drift will be advanced Northerly to cut the high grade zone opened in No. 3 Lateral area on its Eastward extension.

why not 4? WSM

3. Summary

A total of 196 cars of ore were produced from exploration during the period (at 1500# per car this would be about 150 tons). Weighted continuous grab samples indicate an average grade of 0.54% WO_3 for this tonnage. This ore came from exploration headings where no opportunity exists for exclusion of dilution in the slusher drifts. It is our best judgment that mined separately, taking all of the exposed ore bed indicated on the map as ore, but without other selection, this could be held to a mining grade of essentially 1% WO_3.

what's a continuous grab sample?

All bedding drifts will be continued on a Northerly course to crosscut the Wheeler ore bedding for at least 150 feet, after which drifts will be driven Easterly and Westerly in all exposed ore zones. In this manner the ore can be mined without dilution and the true grade, on a continuous production basis, can be determined accurately.

DEFENSE MINERALS EXPLORATION ADMINISTRATION

CONTRACT ADMINISTRATION AND AUDIT DIVISION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 26 1953

INTERIM- AUDIT CERTIFICATE

WSM

I have examined the records and transactions of:

Mt. Wheeler Mines, Inc.
218 Felt Building
Salt Lake City 1, Utah

pertaining to Exploration Project Contract No. Idm-E248 Docket No. DMEA-2082, including Amendments No. 1 and No. 2, for the period January 29, 1952 to December 31, 1952, covering a project for the exploration of Tungsten.

My examination was made in accordance with generally accepted standards applicable in the circumstances.

The audit disclosed the following facts in regard to the amount to be paid the contractor.

Total cost as billed by contractor		$75,383.37
Exceptions: Prior Audit Report	$349.23	
This Audit Report	282.43	631.66
Total accepted cost		$74,751.71

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Fifty Six Thousand Sixty Three and 78/100 Dollars,

$56,063.78

is valid and proper.

This certificate is issued on the provision that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

George Mavor

George Mavor
Auditor

February 20, 1953

I INTRODUCTION

On February 2, 1953, an interim audit (covering the period January 29, 1952 to December 31, 1952) was made of the records and accounts of operations pertaining to Contract No. Idm-E248, Docket No. DMEA-2082, including Amendments No. 1 and No. 2, with the:

Mt. Wheeler Mines, Inc.
218 Felt Building
Salt Lake City 1, Utah

covering a project for the exploration of Tungsten.

The accounting records under this contract are located in the company's office in Salt Lake City, Utah.

During the course of the audit Mr. O. F. Burton, Secretary-Treasurer and Mr. James D. Williams, President, were present and consulted as required. Their cooperation and assistance greatly facilitated the audit.

II GENERAL INFORMATION ON RECORDS

The operator maintains a complete set of accounting records, which includes a general ledger, cost ledger, cash book, invoice register and payroll register which are maintained to record the transactions applicable to both company and exploration project operations. A separate general ledger expense account, identified as "DMEA Project" with related subsidiary cost accounts is maintained to reflect all project costs.

The source documents covering the costs of this project are recorded on monthly work sheets, which form the basis for preparation of the monthly MF-104 reports. Therefore this audit involved in general, a check of the source documents against the monthly work sheets, and reconciliation of the work sheets with the General Ledger and Cost Ledger accounts. All costs were recorded on an accrual basis.

The Company's accounts are audited after the close of each calendar year by a certified public accounting firm.

III SCOPE OF AUDIT AND FINDINGS

The first interim audit was made for the period January 29, 1952 to July 31, 1952 and audit report issued October 1, 1952. This second interim audit covers the period August 1, 1952 to December 31, 1952 and the combined results of both interim audits are discussed in this report.

The audit was limited to ascertaining the accuracy, propriety and validity of the costs as shown in the "Totals to Date" column of Form MF-104, Operator's Monthly Report and Voucher, for the month of December 1952. The extent of the audit and the findings under each of the "Items of Cost" follow:

(1) Independent Contracts — - 0 -

Not applicable to this contract

(2) Labor and Supervision — $23,003.16

The payroll records for the period January 29, 1952 to December 31, 1952 were examined and the payroll charges under this category comprised the following:

Labor		
Blacksmith, compressorman and cook		$ 7,824.01
Contract labor		
Crosscutting	$8,385.60	
Drifting	3,223.76	
Raising	569.79	12,179.15
Total Labor		$20,003.16
Supervision		
Superintendent		3,000.00
Total Labor and Supervision		$23,003.16

The blacksmith and compressorman were paid $14.50 per shift and the cook $250.00 per month all of which were in agreement with contract terms. The contract labor was paid on the following basis:

974.1 feet @ $9.50, straight time	$ 9,253.95
204.1 feet @ 14.25, overtime	2,912.70
Sub-total	$12,166.65
Add: 5 feet, timbering @ $2.50 add'l	12.50
Total contract labor	$12,179.15

The indicated average wage of $10.324 per foot of advance plus an additional $2.50 per foot for timbering is well within the maximum rates allowable under the contract of $13.50 per foot of crosscutting and $11.00 per foot of drifting and raising, plus $3.00 and $5.00 per foot of timbering respectively.

The footage of advance shown on the December 1952 MF-104A can be accounted for as follows:

	Crosscutting	Drifting	Raising	Total
Contract labor	809'	313½'	56'	1.178½'
Company labor	-	18½'	38'	56½'
Total MF-104A	809'	332'	94'	1.235'
Authorized	1.000'	350'	150'	1.500'

The salary paid to James D. Williams, Supervisor at the rate of $500.00 per month was verified to be correct and in accordance with contract terms.

Time cards are maintained for all employees other than the supervisor and cook who are paid on monthly basis. The time cards are signed by the employee and approved by the supervisor and show gross earnings. The time cards are sent to the Salt Lake City office where they are entered in a payroll register by name, classification, hours, rate, gross wages, payroll deductions, net amount of check and check number. The checks are drawn on a special payroll account maintained in a bank at Ely, Nevada. An examination of time cards and cancelled payroll checks was made during the course of the audit.

(3) Operating Materials and Supplies $16,334.64

A substantial test was made of invoices charged to this category, which included the verification of footings and extensions, together with examination of cancelled bank checks. The project did not maintain any stores account and all purchases were charged to the cost of operating materials and supplies.

The audit disclosed that the costs shown under this item on the December 1952 MF-104 as compared to the costs properly chargeable, and allowable, under the terms of the contract to be:

	Charged	Not Allowable	Allowable
Timber	$ 407.73		$ 407.73
Explosives	4,047.15		4,047.15
Pipe	1,962.75	$ 2.76	1,959.99
Track	3,271.20	16.07	3,255.13
Steel and Bits	2,301.10		2,301.10
Fuel and Lube	2,060.36		2,060.36
Vent Tube	880.85		880.85
Misc. Supplies	702.64		702.64
Frt. on Supplies	719.69		719.69
	$16,353.47	$18.83	$16,334.64

The disallowance of $18.83 represented cash discounts taken by operator, but not credited to cost of supplies.

(4) Operating Equipment $16,748.68

All charges for operating equipment were checked against monthly work sheets, invoices, cancelled bank checks and rates specified in contract.

The audit disclosed that the costs shown under this item on the December 1952 MF-104 as compared to the costs properly chargeable, and allowable, under the terms of the contract to be:

	Charged	Not Allowable	Allowable
Rental	$12,710.46	$168.92	$12,541.54
Purchase	4,207.14	-	4,207.14
	$16,917.60	$168.92	$16,748.68

The equipment rental charges are made up of the following items:

See purchase order with Feb 4 1952 voucher
WK Gardner, Model 315

			Rental	Purchase Option Value
(a) Air compressor	9 mos.	@ $470.00	$ 4,230.00	$ 9,119.00
(b) Jumbo	2 mos.	@ 385.00	770.00	2,310.00
(c) Trammer	8 mos.	@ 475.00	3,800.00	7,496.25
(d) Rockershovel	8 mos.	@ 295.00	2,360.00	2,957.00
(e) Generator	9 mos.	@ 172.27	1,550.46	1,895.00
			$12,710.46	$23,777.25
Less: Interest disallowed item (d) Rockershovel			168.92	
Net Rental			$12,541.54	

Items marked (a), (b), (c), (d), are rental purchase agreements entered into during, and to be completed after, period of DMEA contract.

Item marked (e) covers rental purchase agreement entered into and completed during period of DMEA contract with costs shared as follows:

	Gov't.	Operator	Total
Feb.	$ 129.20	$ 43.07	$ 172.27
Mar. - Apr.	-0-	344.54	344.54
May - Dec.	1,033.64	344.55	1,378.19
	$1,262.84	$732.16	$1,895.00
Equity	66.64%	33.36%	100.00%

Interest has been paid directly by the operator on all purchase agreements, with the exception of item (d) Rockershovel, whereby a disallowance has been made in amount of $168.92 as set forth above.

As the operator has treated all of the above purchase rental agreements on a strictly equipment rental basis, no adjustment has been made in this audit report to cover any equity the Government may have in the equipment, due to the fact that the operator is presently engaged in preparing a new application for additional funds to continue the exploration work which expired January 29, 1953 under the present contract. Included in the new application is a detailed description of all the equipment listed above and covered by rental purchase agreements. The operator is requesting that this equipment be transferred from a rental basis to a purchase basis, therefore under the circumstances it was deemed more practicable not to make any audit adjustments on this equipment at this time.

The purchased equipment is made up of the following items:

2 -	#82 Drifters with 86 mountings	$1,750.00
1 -	Joy Portable Blower	518.63
2 -	#2641 Drill Steel Centrilizers	140.00
1 -	2BR Toledo Threading Device	86.00
1 -	7' Column Bar, Clamp and Iron	268.32
1 -	Rectangular Tank 24" x 42"	89.17
1 -	Used IR Tugger EH	350.00
1 -	Thor #75 with 4¼ sh. wet.	328.50
1 -	#64 Jack Log with Hose	198.08
1 -	V26A Scraper (Mucker)	208.00
Cost of Freight (not distributed)		270.44
Total cost of Equipment Purchased		$4,207.14

Certified copies of invoices covering the above listed equipment are attached to the MF-104's held in Finance office Region III.

(5) Initial Rehabilitation and Repairs $2,472.30

All charges against this category were checked against monthly work sheets, and payrolls and invoices were examined to determine the propriety of the items charged which can be accounted for as follows:

	Labor and Supervision	Material	Bulldozing	Total
Reconvert Compressor House to Blacksmith Shop	-0-	$1,299.41	$92.00	$1,391.41
Enlarge and Timber Portal and Misc. Installations	$942.57	138.32	-0-	1,080.89
Totals	$942.57	$1,337.73	$92.00	$2,472.30

Included in material charged to blacksmith shop were items aggregating $1,238.87 purchased during the months of October and November 1952. However, as of December 31, 1952 no labor had been charged for any work performed on blacksmith shop.

Amendment No. 2 of the contract shows the estimated cost at $1,400.00 for converting compressor building to blacksmith shop and no other rehabilitation costs are mentioned in contract. However, the operator stated that the remaining costs of $1,080.89 to Enlarge and Timber Portal etc., were all necessary costs for the operation of the project and as the costs were of a nominal amount no exceptinn was taken.

(6) New Buildings, Improvements, etc. $8,600.40

A review of the charges in this category was made and included the verification of monthly work sheets, payrolls and invoices together with an examination of cancelled bank checks.

The audit disclosed that the costs shown under this item on the December 1952 MF-104 as compared to the costs properly chargeable, and allowable, under the terms of the contract to be:

	Charged	Not Allowable	Allowable
Compressor Bldg. 16' x 24'	$2,977.31	$265.66	$2,711.65
Other Improvements	5,888.75	-0-	5,888.75
Totals	$8,866.06	$265.66	$8,600.40

The disallowances represents $250.00 for salary paid to J. D. Williams, Supervisor, during February and April 1952 and charged to this contract in error for time devoted to Harrington Mine, Exploration Contract Idm-E131. The remaining disallowance of $15.66 represents cash discount taken by operator, but not credited to cost of material purchased.

A further distribution of New Buildings, Improvements etc., can be identified as follows:

	Labor	Cook	Superv'n	Material	Bulldzg.	Total
(a) Compressor Bldg.	$1,392.48	$ 50.00	$ 100.00	$1,069.17	$100.00	$2,711.65
(b) Hauling Supplies	494.30	27.78	83.34	-	-	605.42
(c) Hauling Equipment	329.53	41.67	125.01	-	-	496.21
(d) Forms for Equipment	988.60	83.33	249.99	-	-	1,321.92
(e) Installing Equipment	1,631.75	147.22	391.66	-	-	2,170.63
(f) Install Water Line	717.57	75.00	150.00	-	352.00	1,294.57
Totals	$5,554.23	$425.00	$1,100.00	$1,069.17	$452.00	$8,600.40

The above item (a) Compressor Building is shown under Exhibit A of the contract under the caption of "Fixtures and Improvements", at an estimated cost of $2,000.00 not including the $100.00 cost for preparing site by bulldozer. The cost of the compressor building $2,711.65 has been allowed.

The remaining items of cost are described as follows:

(b) Hauling supplies from bottom Pole canyon to mine.
(c) Hauling equipment from bottom Pole canyon to mine.
(d) Building forms and concrete work for mine equipment.
(e) and (f) Installing mine equipment, underground air and water lines, underground and surface trackage, etc.

The above hauling and installation costs were not specifically set up in Exhibit A of the contract, however, the operator advised that it was absolutely necessary to perform this work in order to effectuate the exploration program as provided for in the contract. With this thought in mind the costs were allowed.

In Exhibit A of the contract under the caption of "Fixtures and Improvements" totaling $12,370.00, certain material and supply items are listed such as track, pipe and tubing. These items when purchased have been properly classified under item 3 Material and Supplies when preparing Form MF-104.

(7) Miscellaneous $6,946.53

The audit of miscellaneous charges included an examination of monthly work sheets, invoices, cancelled bank checks and other supporting data pertaining to payroll taxes, compensation insurance and auto mileage charges.

The audit disclosed that the costs shown under this item on the December 1952 MF-104 as compared to the costs properly chargeable, and allowable, under the terms of the contract to be:

	Charged	Not Allowable	Allowable
Repairs to Equipment	$ 653.75		$ 653.75
Sampling and Analysis	39.00		39.00
Payroll Taxes	1,246.86	$ 11.25	1,235.61
Liability Insurance	2,286.11	27.50	2,258.61
Administration	2,199.06	139.50	2,059.56
Aerial Maps	250.00	-	250.00
Truck Rent-Hauling	450.00	-	450.00
Totals	$7,124.78	$178.25	$6,946.53

The charges for payroll taxes and insurance were verified by computation at the rates used by the company which were as follows:

Social Security Tax	1.5%	
Unemployment: Nevada	3.0%	4.5%
Workmen's Compensation - Underground		11.0%
- Commissary		2.2%

As a disallowance had been made covering $250.00 salary paid to J. D. Williams, Superintendent, which had been charged to item (6) New Buildings and Improvements, etc., a further disallowance is made for payroll taxes and insurance:

Salary $250.00 - P/R Tax @ 4½% = $11.25
-Insurance@ 11% = $27.50

An analysis of Administration costs in amount of $2,059.56 shows the type of expense to be:

Accounting 9 mos. @ $100.00		$900.00
Mileage, J. D. Williams Jeep	$846.36	
Less: Audit disallowances	139.50	
Adjusted to 7¢ per mile 8 mos. to 12/31/52		706.86
Other office and Misc. Expense		452.70
Adjusted cost to 12/31/52		$2,059.56

The charge of $250.00 for aerial maps was allowed under Amendment No. 3 of the contract and the remaining items of cost for repairs to equipment, sampling and analysis and truck rent are all proper charges to the contract.

(8) Contingencies $646.00

The charges under this category covered rental of bulldozer for snow removal from road Campsite to Pole Tunnel.

Bulldozer Rent

Feb. 1952	39 hrs. @ $10.00	$390.00
Apr. 1952	32 hrs. @ 8.00	256.00
Total		$646.00

Invoices for above snow removal expense were examined and found to be allowable under contract terms.

IV CONCLUSIONS AND RECOMMENDATIONS

This audit has disclosed that all costs, as charged to this project, with the exception of the disallowances itemized under items (3) Operating Materials and Supplies, (4) Operating Equipment, (6) New Buildings and Improvements etc., and (7) Miscellaneous of the preceding section of this report, are reasonable and proper under the terms of the contract, with the exception of equipment rental in amount of $12,541.54 which in reality are covered by rental purchase agreements and discussed at length in this report under item (4) Operating Equipment.

The MF-104 Operator's Monthly Report and Voucher for month of December 1952 was processed for payment after deducting audit disallowances aggregating $592.91. After processing voucher an additional disallowance of $38.75 was discovered and will have to be deducted from operator's MF-104 for January 1953. The status of payments to operator and the audit certification as of December 31, 1952 is as follows:

	Month of December	Total to 12/31/52	75% Amount Certified
MF-104 costs	$8,967.10	$75,383.37	
Less: Disallowances	592.91	592.91	
Finance Off. Record 12/31/52	$8,374.19	$74,790.46	$56,092.85
Less: Add'l Disallowance	38.75	38.75	29.07
Final costs 12/31/52	$8,335.44	$74,751.71	$56,063.78

The additional disallowance of $38.75 is made up of payroll taxes $11.25 and liability insurance $27.50 which is explained in item (7) Miscellaneous of this report.

The adjustments between Items of Costs, as shown on the December 1952 MF-104, the recommended disallowances, and approved amounts, are summarized as follows:

	Totals Dec.MF-104	Distribution Corrected	Disallowed by Audit 12/31/52	7/31/52	Allowed by Audit
(1) Independent Contracts					
Crosscutting	$ 8,385.60				
Drifting	3,223.76				
Raising	569.79				
(2) Labor and Supervision					
Labor	7,824.01	$20,003.16			$20,003.16
Supervision	3,000.00	3,000.00			3,000.00
Technical Services	250.00				
(3) Operating Mat'ls & Supplies					
Timber	407.73	407.73			407.73
Explosives	4,047.15	4,047.15			4,047.15
Pipe	1,962.75	1,962.75	(a)	$ 2.76	1,959.99
Track	3,271.20	3,271.20	(a)	16.07	3,255.13
Steel and bits	2,301.10	2,301.10			2,301.10
Fuel and Lube	2,060.36	2,060.36			2,060.36
Vent Tube	880.85	880.85			880.85
Miscellaneous Supplies		702.64			702.64
Freight on Supplies		719.69			719.69
(4) Operating Equipment					
Rental	13,900.46	12,710.46	(b)	168.92	12,541.54
Purchase	4,451.81	4,207.14			4,207.14
(5) Initial Rehabilitation & Repairs	1,141.43	2,472.30			2,472.30
(6) New Bldgs. Improvements,etc.	9,652.93	8,866.06	(a) (a)	250.00 15.66	8,600.40
(7) Miscellaneous					
Repairs to Equipment	653.75	653.75			653.75
Sampling and Analysis	39.00	39.00			39.00
Payroll Taxes	1,246.86	1,246.86	(b)	11.25	1,235.61
Misc. Operating Supplies	187.53				
Liability Insurance		2,286.11	(b)	27.50	2,258.61
Workmen's Comp. Insurance	2,286.11				
Administration	2,199.06	2,199.06	(a) (b)	64.74 74.76	2,059.56
Aerial Maps		250.00			250.00
Truck Rent-Hauling		450.00			450.00
(8) Contingencies					
Freight - Supplies	719.69				
Freight - Equipment	270.44				
Truck Rent - Hauling	450.00				
Bulldozing - Snow Removal		646.00			646.00
	$75,383.37	$75,383.37		$631.66	$74,751.7

Audit Report 7/31/52 disallowances	(a)	$349.23
Audit Report 12/31/52 disallowances	(b)	282.43
Total Disallowances		$631.66

The audit also disclosed that the status, as of December 31, 1952, of "allowable maximums" under this contract was as follows:

Item	Allowable Maximum	Total Costs	Balance
Contract Labor, Crosscutting	$13,500.00	$8,385.60	$5,114.40
" " Drifting	3,850.00	3,223.76	626.24
" " Raising	1,650.00	569.79	1,080.21

The apparent balances for contract labor are not representative figures for completion of footage authorized under contract. For additional details see item (2) Labor and Supervision in this report which gives a complete description of contract labor and footage advance.

At the conclusion of the audit, the findings were discussed with Mr. James D. Williams, President and Superintendent.

George Mavor
George Mavor
Auditor

February 20, 1953

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

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

RECEIVED JUL 23 1953

ACCOUNTS MAR 25 1953

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

Month of January, 1953 Docket No. DMEA 2082 Contract No. Idn-[illegible]248

Operator's Name M. MILLER MINES, INC. Minerals Tungsten

Address P.O. Box 150, Salt Lake City 10, Utah

Contract Amount, $75,476.00 Government Participation: 75 % Amount, $ 56,607.00

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:		Converted as per Audit of 12/31/52				WSM
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	3,787.46	20,003.16	23,790.62			
Supervision	500.00	3,000.00	3,500.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Misc. Oper. Supplies	41.44	702.64	744.08			
Timber		407.73	407.73			
Explosives		4,047.15	4,047.15			
Pipe		1,952.75	1,952.75			
Track		3,271.20	3,271.20			
Fuel and lube	561.63	2,060.36	2,621.99			
Steel and bits	66.08	2,301.10	2,367.18			
Vent tube	270.75	880.85	1,151.60			
(4) Operating Equipment: Freight	218.01	719.69	937.70			
Rental	1,625.00	12,710.46	14,335.46			
Purchase & freight		4,207.14	4,207.14			
Depreciation						
(5) Initial Rehabilitation and Repairs		2,472.30	2,472.30			
(6) New Bldgs., Improvements, etc.		8,866.06	8,866.06			
(7) Miscellaneous:						
Repairs to Equipment	67.02	653.75	720.77			
Sampling and Analysis		39.00	39.00			
Payroll Taxes	192.91	1,246.86	1,439.77			
Liability Insurance	300.55	2,206.11	2,586.66			
Administrative	338.10	2,199.06	2,537.16			
Truck hauling	50.00	450.00	500.00			
Aerial maps		250.00	250.00			
(8) Contingencies (specify):						
Bulldozing - snow		646.00	646.00	8018.95		M 7104 1/31/53
	8,018.95	75,383.37	83,402.32	7294.66	Less Overstatement of Contract	
Less: Audit suspension		592.91	592.91	724.29		
TOTALS	8,018.95	74,790.46	82,809.41	- 38.75	Disallowances Res.	75,476.00
				# 685.54 Paid		

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

Date Feb. 24, 1953 *Payee M. MILLER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 514.15

Signature Lloyd H. Sjolander Authorized Certifying Office (Authorized Certifying Officer)

Date JUL 13 1953 Vou. No. SF-DMEA-1

(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. Ldm-218 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date March 10, 1953.

A. C. Johnson Reg. III

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature K.C.Miller Title ~~DMEA Field Team~~ Executive Officer Date March 16, 1953

K.C.Miller Region III

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

RECEIVED

ACCOUNTS MAR 25 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1953 Docket No. DMEA 2082 Contract No. Idm-248
Operator's Name M. [illegible] Mines, Inc. Minerals Tungsten
Address P.O. Box 150, Salt Lake City 10, 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.		50.0		382.0		350.0	
Crosscutting	Ft.	8,018.95	156.0	67,263.91*	965.0	45.91	1000.0	
Raising	Ft.		24.0		118.0		150.0	
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		8,018.95	230.0	67,263.91*	1465.0		1500.0	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				4,207.14 1/				
Initial Rehabilitation and Repairs				2,472.30 1/				
New Buildings, Improvements, etc.				8,866.06 1/				
TOTAL COSTS				82,809.41 1/				

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. 24, 1953 Operator M. [illegible] Mines, Inc.

Per James B. Williams Title President

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

(Instructions on reverse)

REMARKS:
*Corrected to reflect suspension of $592.91 as per audit of 12/31/52.

1/ Corrected as per audit of 12/31/52.

Note: Project completed as of January 29, 1953. Additional work being requested by amendment to contract Idm-248.

(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

MT. WHEELER MINES, INC.

P. O. BOX 150

SALT LAKE CITY 10, UTAH

February 24, 1953

Mr. A. C. Johnson, Chief
Mining Division, Region III
United States Bureau of Mines
P.O. Box 1551
Reno, Nevada

Re: Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
MF-104 Statement-January, 1953

Dear Mr. Johnson:

Attached are the original and four copies of our MF-104 statement of expenditures for the above captioned Exploration Project for the month of January, 1953. Also included are the following -

1. Narrative Report of Progress
2. Monthly Progress Map
3. Analysis of Project Costs

Very truly yours,

MT. WHEELER MINES, INC.
By

James D. Williams
President

JDW-K

Enc.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1953 MAR 3 AM 8:36

SAN FRANCISCO, CALIFORNIA

NARRATIVE REPORT
Month of January, 1953
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount $75,476.00
Government Participation 75%

The period covered by this narrative is from January 1 to January 29, 1953, during which 54 out of a possible 54 shifts were worked underground.

1. Exploration Work (See Map D100-5 Attached)

Total advance for the month was 230.0 feet; 203.0 feet on footage contract and 27.0 feet on company wage account. On contract, 54 shifts were worked in the Pole heading and No. 6 Lateral North, for an average advance of 3.76 feet per shift. This low advance per shift resulted from eight shifts devoted to cleaning up the tunnel during which no drilling was done. On company account, 11 shifts were worked in No. 4 Bedding drift and No. 5 Lateral North raise. Total advance was 27.0 feet or 2.45 feet per shift. Exploration work was divided as follows -

A Pole Adit (Contract A/c)

Total advance for the month was 156.0 feet. The adit was continued on a S 73° E course, approximately 10 feet under the lime-shale contact, to the 123.0 foot point where a N 10° W fault, dipping 65° Easterly, dropped the East side approximately 27.0 feet. The balance of the month's drive was in the top portion of the Wheeler limestone bed. At 129.0 feet, the adit was turned 10° North to a S 83° E course. The last round of the month broke into an open cave. At the face a series of N 85° E quartz filled fractures, dipping nearly vertical, showed considerable scheelite mineralization.

B No. 6 Lateral North (Contract A/c)

Month's advance was 47.0 feet. At start of DMEA plus 893.5 feet (portal plus 1001.5 feet), the lateral was driven on a N 50° E course a distance of 32.0 feet. A strong E-W quartz filled fracture (4" wide) was cut at the face and a 15.0 foot raise was driven on it into the bottom of the Wheeler bed. Scattered scheelite mineralization was observed at this point.

C No. 5 Lateral North Riase (Wage A/c)

Month's advance was 9.0 feet. This raise was driven on a series of E-W quartz filled fractures. Considerable scheelite mineralization was observed where these fissures cut the bottom of the Wheeler bed.

D No. 4 Lateral North Bedding Drift (Wage A/c)

Month's advance was 18.0 feet. This drift was advanced on a N 45° E course through the middle portion of the Wheeler bed (this position resulted from the

East side being dropped by the fault reported last month). Very little scheelite was observed except at the face where a S 85° E quartz fissure, dipping 80° Northerly, was cut. At this point considerable scheelite showed.

2. Other Work

The outside frame of the combination blacksmith shop and change room was completed and is ready for the sheet metal covering. This will be completed next month at company expense.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1993 MAR 3 AM 8:36

SAN FRANCISCO, CALIFORNIA

Jan
2082

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
2 1953

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

February 24, 1953

WSM

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Operator's Monthly Progress Report - Form MF-104 and 104A

Enclosed herewith are two copies of the subject report received from the following Operator. This report has been audited and passed to the Treasury for payment.

Contract No.	Operator	Report dated	Period covered
Idm-E248	Mt. Wheeler Mines, Inc.	Jan. 10, '53	December 1952

H. C. MILLER

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: E. H. Bailey, USGS

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Minerals Administration
RECEIVED
2 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1952 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah

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.		35.5		332.0		350	
Crosscutting	Ft.	8,967.10	196.5	60,137.20	809.0	48.69	1,000	
Raising	Ft.		32.0		94.0		150	
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		8,967.10	264.0	60,137.20		1,235.0	1,500.0	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				4,451.81				
Initial Rehabilitation and Repairs				1,141.43				
New Buildings, Improvements, etc.				9,652.93				
TOTAL COSTS		8,967.10		75,383.37				

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

Date Jan. 10, 1953 Operator MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

REMARKS: At present rate of advance, project will be completed by January 29, 1953.

(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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R103.3.
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
RECEIVED
JAN 9 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December 1952 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $ 75,476.00 Government Participation: 75 % Amount, $ 56,607.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Short Form~~ Contracts:						
Drilling						
Bulldozing						
Crosscutting	2,082.90	6,302.70	8,385.60			
Drifting	375.22	2,848.54	3,223.76			
Raising		569.79	569.79			
(2) Labor and Supervision:						
Labor	1,983.55	5,840.46	7,824.01	4441.67	15,561.49	20,003.16
Supervision	500.00	2,500.00	3,000.00	500.00	2500.00	3,000.00
Technical Services		250.00	250.00			
(3) Operating Mat'ls. and Supplies:						
Timber	350.57	57.16	407.73	350.57	57.16	407.73
Explosives	113.90	3,933.25	4,047.15	113.90	3,933.25	4,047.15
Pipe		1,962.75	1,962.75	2.76	1,962.75	1,959.99
Track	358.80	2,912.40	3,271.20	342.73	2,912.40	3,255.13
Steel and bits		2,301.10	2,301.10		2,301.10	2,301.10
Fuel and lube	438.66	1,621.70	2,060.36	438.66	1,621.70	2,060.36
(a) Vent tube (b) Misc. Supplies (c) Fuel Supplies		880.85	880.85		880.85	880.85 (a)
(4) Operating Equipment:				15.25	687.39	702.64 (b)
Rental	1,797.30	12,103.16	13,900.46	62.55	657.14	719.69 (c)
Purchase		4,451.81	4,451.81	1633.38	10,913.16	12,546.54
Depreciation					4,207.14	4,207.14
(5) Initial Rehabilitation and Repairs		1,141.43	1,141.43		2472.30	2,472.30
(6) New Bldgs., Improvements, etc.		9,652.93	9,652.93	265.66	8,866.06	8,600.40
(7) Miscellaneous:						
Repairs to Equipment	39.44	614.31	653.75	39.44	614.31	653.75
Sampling and Analysis	30.00	9.00	39.00	30.00	9.00	39.00
Payroll Taxes	218.70	1,028.16	1,246.86	218.70	1,028.16	1,246.86
(d) Misc. Oper. supplies (e) ~~Liability Insurance~~	15.25	172.28	187.53	318.11	1,968.00	2,286.11 (e)
Workmen's Comp.	318.11	1,968.00	2,286.11			
Administration	232.15	1,966.91	2,199.06	92.65	1,966.91	2,059.56
(f) Hard Hats (g) Truck Rent - Hauling					250.00	250.00 (f)
(8) Contingencies (specify):				50.00	400.00	450.00 (g)
Freight - Supplies	62.55	657.14	719.69			
Freight - Equipment		270.44	270.44			
Truck Rent-Hauling	50.00	400.00	450.00			
(h) Bulldozing Snow Removal					646.00	646.00 (h)
TOTALS	8,967.10	66,416.27	75,383.37	8,374.19	66,416.27	74,790.46

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Jan. 10, 1953 *Payee MT. WHEELER MINES, INC.

Per James H. Williams Title President

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

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

(Instructions on reverse)

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

$ 6,280.66

Lloyd H. Sjolander
Authorized Certifying Officer
Signature
(Authorized Certifying Officer)

Date 3 1953 Vou. No. SF-DMEA-33
(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. Ia-1218 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date Jan. 12, 1953.

A. C. Johnson

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. O. Miller Title Region III Executive Officer DMEA Field Team Region III Date January 15, 1953

H.O. Miller

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

NARRATIVE REPORT
Month of December, 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount $75,476.00
Government Participation 75%

The period covered by this narrative is from December 1 to December 31, 1952, during which 51 out of a possible 52 shifts were worked underground (on a 2 shift per day basis). One shift was lost because of post Christmas absenteeism.

1. Exploration Work (See Map D-100$_5$, Sheet 2, Attached)

Total advance for the month was 264.0 feet; 232.0 feet on footage contract and 32.0 feet on company wage account. On contract, 51 shifts were worked in the Pole heading and No. 5 Lateral-North, for an average advance of 4.55 feet per shift. On company account 3 shifts were worked in No. 3 Lateral-North Raise Drift and 9 shifts in No. 4 Lateral-North raise and Raise Drift. Total advance was 32.0 feet. Three shifts were used in setting up the slushers in No. 4 Lateral-North. Average advance on company wage account was 2.5 feet per shift. Exploration was divided as follows -

A Pole Tunnel (Contract A/c)

Total advance for the month was 196.5 feet. The tunnel was continued on a S 80° E course a distance of 79.0 feet, at which point it was turned southward to a S 73° E course for the remainder of the month. At the start the lime-shale contact was breast high in the face. As the adit advanced the contact slowly climbed and at 65.0 feet was in the extreme back of the tunnel. At 79.0 feet the tunnel was turned southward approximately 7° to stay just under the lime. This apparently accomplished its purpose. The mud bed mentioned in last month's report entirely disappeared as the tunnel passed through the E-W fault fissure.

At start plus 17.0 feet a N 30° W fault, dipping 70° westerly, was cut which dropped the East side about one foot. For the next 30 feet a series of N 5° W to N 20° E fissures, dipping steeply to the west, were cut. A strong quartz filled fissure, striking N 80° E with vertical dip, was cut at 47.0 feet. From 65 to 72 feet four strong N 40° E fissures, dipping 85° westerly were cut. At 104 feet another strong E-W quartz filled fissure was cut. From 116 to 144 feet, nine N-S trending fissures were cut and a strong E-W fissure cut obliquely across the tunnel. For the balance of the advance four additional N-S trending fissures were cut. Since practically all of the month's advance was in shale just under the limestone, no scheelite mineralization was observed.

B Third Lateral-North (Wage A/c)

Month's advance in this area was 8.0 feet in a sub-level raise drift driven easterly entirely within the production bed. The ore zone at this point is plus 7.0 feet thick. Very strong scheelite mineralization came in on a series of N 70° E fissures dipping 80°-85° northerly. The entire 7 foot bed shows well disseminated scheelite ore. A muck pile sample of approximately 20 mine cars assayed 2.96% WO_3. This ore was placed in the DMEA stockpile.

C Fourth Lateral-North (Wage A/c)

Month's advance in this area was 24.0 feet. An incline raise drift was driven 16.0 feet on a N 5° E course into the ore bed. At 2 and 5 feet, respectively, E-W quartz and scheelite filled fissures were cut. Two mine cars of high grade ore selected from these fissures assayed 24.3% WO_3. The general muck pile sample from the first two rounds assayed 3.02% WO_3, but it is the writer's opinion that this sample was probably "salted" from the high grade fissure ore which may have dressed the muck pile.

Two faults, N 30° W and N 10° E, dipping westerly, cut this drift, dropping the east side about 3 feet. On the west side of the N 10° E fault and east of the N 30° W fault, a five foot bed of ankerite mud came in. This mud assayed 0.25% WO_3.

A second sub-level raise-drift was driven 8.0 feet on a N 60° E course on the east side of the faults. The bottom of this drift just cut the top of the ore bed. As it is advanced the bed will rise into the drift. Scattered scheelite mineralization shows in the E-W fissuring. Additional work will be done in this area next month.

D Fifth Lateral-North (Contract A/c)

Month's advance in this area was 35.5 feet. At start of DMEA plus 680.5 feet (portal plus 788.5 feet), a lateral was driven on a series of N 40° fissures a distance of 35.5 feet. At 15.0 feet a strong N 85° E quartz filled fissure was cut and at 31.0 feet a strong E-W fissure was cut. This latter fissure showed scattered scheelite mineralization. An incline raise drift will be run into the ore bed next month.

2. Other Work

The foundation for the combination blacksmith shop and change room were completed. Stormy weather hampered this outside work very much. However, the sills and plates were installed and work on the outside frame was started.

Severe freezing weather, with but little snow covering on the ground, froze the main supply water line again and we were unable to thaw it. This necessitates hauling all camp and mine water from the valley, a distance of about seven miles.

COMBINED METALS REDUCTION COMPANY

P. O. BOX 150

SALT LAKE CITY 10, UTAH

Subject: Tungsten Ore Reserve at Mt. Wheeler Mine
To : Mr. E. H. Snyder

From : Earl B. Young
Date : December 16, 1952

Sufficient development has been completed at the Mt. Wheeler Mine in its Pole Canyon tunnel to justify a restatement of the geological conditions that exist and to make a "guesstomate" of probable ore reserves as of this date. "Probable" as used in this letter includes "positive" and "probable" as ordinarily used.

The tunnel has advanced past the 900 foot mark and with its side crosscuts, raises and subdrifts, it has revealed a very interesting pattern of ore occurrence. We have dubbed this the waffle-iron, and an explanation may be necessary. The first work in the tunnel was based on the belief that there were several shear zones trending easterly across the area which would serve as guides for mineralizing solutions and gases. This conception must now be expanded to include another series of fracture zones which extend in a north-south direction across the amphitheatre. To date five of these N-S zones have been identified and designated A, B, C, D and E.

Zone "A" is cut in the tunnel from 24 feet to 95 feet from the portal. About 80 feet of sub-level work in the orebed produced 105 cars which assayed 3.68 WO_3 and a considerable amount of low grade. We feel justified in assigning a width to the zone at this point of 72 feet, extend it for 100 feet in a north-south direction and consider the ore thickness as 5 feet, although in some places it is up to 7 feet. Allowing 12 cubic feet to the ton, we obtain an estimated probable reserve of 3000 tons.

Zone "B" is cut from 142 to 216 feet from the portal and is also considered as 72 feet wide. The bed has been exposed by three raises from the No. 1 Lateral-South and by short drifts in the bed. Replacement by scheelite again occurs over a thickness which in places is six to seven feet. Again allowing 100 feet north and south with an average thickness of five feet, we have an additional probable reserve indicated of 3000 tons. The average assay from 125 cars from this zone was 0.62% WO_3.

Zone "C" is cut from 355 feet to 434 feet from the portal and is considered as 60 feet wide. The bed was entered by one raise from which 40 cars averaged 0.12% WO_3. While this raise was driven on an east-west fracture, it seems to be in a lean part of the zone and is outside of our estimated block. Here, we assume a block 60 feet wide by 100 feet north and south and 5 feet thick. This gives 2500 tons. Grade is unknown, but as the zone is strong further work into the block is indicated.

Zone "D" is cut from 471 feet to 520 feet from the portal and is considered as 60 feet wide. The zone has been developed by No. 3 Lateral-North with a raise and 20 feet of sub-level. Strong mineralization shows along both the north-south and the east-west fractures and as replacement in the bed. The first 35 cars from the sub-level assayed 1.08% WO_3. Specimen ore occurs in the east-west fractures.

The very conservative estimate of 60 feet by 100 feet north-south by a thickness of five feet adds another 2500 tons to the probable reserve.

Zone "E" is cut from 582 to 682 feet from the portal and is considered as 90 feet wide. It is developed by No. 4 Lateral-North and a short incline up the beds parallel to the north-south fracturing. No assays are yet available but specimen ore was seen in the muck pile. We wish to estimate a block here 90 feet wide by 100 feet north-south by five feet thick, to contain 3750 tons of ore over 1% WO_3.

The total probable reserve from the five blocks outlined above totals 14,750 tons. This is enough to supply a 25-ton mill for nearly two years.

The possible reserve runs into such fantastic figures that they would probably only provoke doubt. Hence we content ourselves with a brief statement concerning the north-south zones which were not given due significance in our first studies, even though we did emphasize the long-range objectives offered by the Shefield, the Washington and the St. Lawrence fissures, all of which trend north-south. Now we find that these north-south fracture zones, separated by relatively tight areas are an important part of the fracture pattern. They are plainly seen in the quartzite walls of Pole Canyon about 1200 feet north of the portal of the tunnel. Also of special significance is the new series of colored air-photos taken by Phillip A. Laylander which show definite north-south alteration zones on the surface of the area being crossed by Pole tunnel.

In view of the recent developments we are now forced to expand our conception of the ore possibilities of Pole Canyon to include both east-west and north-south zones. The areas of intersection will be of better grade while the areas between the zones will be low grade or possibly waste. In general, the east-west fractures are frequently filled with quartz, sometimes carrying scheelite, while the north-south fractures tend to be open or filled with aragonite, mud and pebbles. The displacement on the fractures is usually a matter of inches, but is obviously sufficient to have prepared the zones for the entry of tungsten bearing solutions and gases. With such impressive mineralization in the north-south zones already encountered, we eagerly look forward to the intersection with the Shefield, now only about 1200 feet to go.

Respectfully submitted,

Earl B. Young

Earl B. Young

K

Telephone 9-9962

Mr. James D. Williams
Mt. Wheeler Mines Co.
P O Box 150
City 10

DEASON & NICHOLS
ASSAYERS & CHEMISTS
C. Ivan Nichols Wm. J. Deason
160 So. West Temple Street
Salt Lake City 1, Utah

December 18, 1952

ASSAY PER TON OF 2000 POUNDS

DESCRIPTION	NO.	GOLD OUNCES	SILVER OUNCES	WET LEAD %	COPPER %	ZINC %	INSOL %	%	%	%	%
								W03			
	313	General muck pile grab #3 N Rae - 20 cars						2.96			
	314	Muck pile grab #4 Lat No Rae drift - 15 cars						3.02			
	315	Muck pile grab Rd 1-23; #1 Lat So. - 15 Cars						2.25			
						JRW					

CHARGES $ 9.00

Telephone 9-9962

Mr. James D. Williams
Mt Wheeler Mines Co.
P O Box 150
City 10

DEASON & NICHOLS
ASSAYERS & CHEMISTS
C. Ivan Nichols Wm. J. Deason
160 So. West Temple Street
Salt Lake City 1, Utah

December 31, 1952

ASSAY PER TON OF 2000 POUNDS

DESCRIPTION	NO.	GOLD OUNCES	SILVER OUNCES	WET LEAD %	COPPER %	ZINC %	INSOL %	%	%	%	%
								W03			
Test Head # A 1-2-1 12/29/52								0.87			
Test Head # B 12-30-1 12/29/52								0.58			

CHARGES $ 6.00

Telephone 9-9962

Mr. James D. Williams
Mt. Wheeler Mining Co.
P O Box 150
City 10

DEASON & NICHOLS
ASSAYERS & CHEMISTS
C. Ivan Nichols Wm. J. Deason
160 So. West Temple Street
Salt Lake City 1, Utah

December 2, 1952

ASSAY PER TON OF 2000 POUNDS

DESCRIPTION	NO.	GOLD OUNCES	SILVER OUNCES	WET LEAD %	COPPER %	ZINC %	INSOL %	%	%	%	%
								W03			
35 cars to OMEA Stockpile from Rec drift in bedding No. 3 lateral - north 6'+ ore bed thickness 14' drive E from raise. J.								1.08			

CHARGES $ 3.00

C. Ivan Nichols

Telephone 9-9962

Mr. James D. Williams
Mt. Wheeler Mining Co.
P O Box 150
City 10

DEASON & NICHOLS
ASSAYERS & CHEMISTS
C. Ivan Nichols Wm. J. Deason
160 So. West Temple Street
Salt Lake City 1, Utah

December 17, 1952

ASSAY PER TON OF 2000 POUNDS

DESCRIPTION	NO.	GOLD OUNCES	SILVER OUNCES	WET LEAD %	COPPER %	ZINC %	INSOL %	%	%	%	%
								W03			
# 305 Dup. of # 307 - To CMRCo Lab. Type Sample Lo-grade								0.13			
306 Dup. of # 308 - " " " " " " Mud								0.24			
310 very hi grade - type sample only - 2 cars								24.28			
312 Dup. of # 311 To CMRCo lab - Type Sample - Low								0.16			

CHARGES $ 12.00

C. Ivan Nichols

Telephone 9-9962

Mr. James D. Williams
Mt. Wheeler Mining Co.
P O Box 150
City 10

DEASON & NICHOLS
ASSAYERS & CHEMISTS
C. Ivan Nichols Wm. J. Deason
160 So. West Temple Street
Salt Lake City 1, Utah

ASSAY PER TON OF 2000 POUNDS

September 12, 1952

DESCRIPTION	NO.	GOLD OUNCES	SILVER OUNCES	WET LEAD %	COPPER %	ZINC %	INSOL %	%	%	%	%
								WO3			
Rse #1-2-3 #1 Lat. So.	1	Car grab - 125 Cars #1 Lat. So. to stockpile						0.62			
	2	Car grab - 40 " #1 Lat So to waste dump						0.32			

CHARGES $ 6.00

C. Ivan Nichols

Telephone 9-9962

Mt. Wheeler Mines Co.
Felt Bldg.
City

DEASON & NICHOLS
ASSAYERS & CHEMISTS
C. Ivan Nichols Wm. J. Deason
160 So. West Temple Street
Salt Lake City 1, Utah

ASSAY PER TON OF 2000 POUNDS

October 17, 1952

DESCRIPTION	NO.	GOLD OUNCES	SILVER OUNCES	WET LEAD %	COPPER %	ZINC %	INSOL %	%	% Tungsten	%	%
Comp. # 1	Muck pile from No 2 So. Lat. raise & rse. drift approx 40 cars to waste dump.								WO3 0.12		

CHARGES $ 3.00

C. Ivan Nichols

Nov 4 see
1957 advance

608 ✓

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 14 1953

COPY

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1952 Docket No. DMEA 2082 Contract No. Idm-E248

Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten

Address P. O. Box 150, Salt Lake City 10, Utah

Contract Amount, $ 75,476.00 Government Participation: 75 % Amount, $ 56,607.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Short Form~~ Contracts:						
Drilling						
Bulldozing						
Crosscutting	2,082.90	6,302.70	8,385.60			
Drifting	375.22	2,848.54	3,223.76			
Raising		569.79	569.79			
(2) Labor and Supervision:						
Labor	1,983.55	5,840.46	7,824.01			
Supervision	500.00	2,500.00	3,000.00			
Technical Services		250.00	250.00			
(3) Operating Mat'ls. and Supplies:						
Timber	350.57	57.16	407.73			
Explosives	113.90	3,933.25	4,047.15			
Pipe		1,962.75	1,962.75			
Track	358.80	2,912.40	3,271.20			
Steel and bits		2,301.10	2,301.10			
Fuel and lube	438.66	1,621.70	2,060.36			
Vent tube		880.85	880.85			
(4) Operating Equipment:						
Rental	1,797.30	12,103.16	13,900.46			
Purchase		4,451.81	4,451.81			
Depreciation						
(5) Initial Rehabilitation and Repairs		1,141.43	1,141.43			
(6) New Bldgs., Improvements, etc.		9,652.93	9,652.93			
(7) Miscellaneous:						
Repairs to Equipment	39.44	614.31	653.75			
Sampling and Analysis	30.00	9.00	39.00			
Payroll Taxes	218.70	1,028.16	1,246.86			
Misc. Oper. supplies	15.25	172.28	187.53			
~~Liability Insurance~~ Workmen's Comp.	318.11	1,968.00	2,286.11			
Administration	232.15	1,966.91	2,199.06			
(8) Contingencies (specify):						
Freight - Supplies	62.55	657.14	719.69			
Freight - Equipment		270.44	270.44			
Truck Rent-Hauling	50.00	400.00	450.00			
TOTALS	8,967.10	66,416.27	75,383.37			

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

Date Jan. 10, 1953 *Payee MT. WHEELER MINES, INC.

Per /s/ James D. Williams Title President

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

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

(Instructions on reverse)

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

$

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. Idm-E248 in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Region III Date Jan. 12, 1953.

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 14 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1952 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah

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.)		35.5)		332.0)		350	
Crosscutting	Ft.)	8,967.10	196.5)	60,137.20	809.0)	48.69	1000	
Raising	Ft.)		32.0)		94.0)		150	
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
					1,235.0		1,500.0	TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS		8,967.10	264.0	60,137.20				
Operating Equipment Purchased				4,451.81				
Initial Rehabilitation and Repairs				1,141.43				
New Buildings, Improvements, etc.				9,652.93				
TOTAL COSTS		8,967.10		75,383.37				

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

Date Jan. 10, 1953 Operator MT. WHEELER MINES, INC.

Per /S/ James D. Williams Title President

REMARKS: At present rate of advance, project will be completed by January 29, 1953.

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

Cumulative monthly balances DMEA 082 - Tungsten Idm-E

	Contract Authorizations	Balance Oct. 1, 1952	MF-104 October, 1952	Balance Oct. 31, 1952	Amendment 11/10/52	Balance Nov. 1, 1952	MF-104 November, 1952	Balance Dec. 1, 1952	MF-104 December 1952	Balance Jan. 1, '53
1. Fixtures and Improvements										
(a) 16x24 Comp. bldg.	2,000.00	38.46		38.46			6.82			
	2,000.00	38.46				38.46	27.67	3.97		3.97
							34.49			
(b) Trackage										
1. 11T 20# rail	2,013.00	444.58	441.56	3.02		3.02		3.02		3.02
2. 190 pc. rail splices	228.00	129.20	57.00	72.20		72.20		72.20		72.20
3. 550 4x6 ties	550.00	482.50		482.50		482.50		482.50	283.69	198.81
4. 500 # track spikes	75.00	(22.07)	44.69	(66.76)		(66.76)		(66.76)		(66.76)
5. 200# track bolts	40.00	6.70		6.70		6.70		6.70		6.70
6. 7 d.t. switches	875.00	370.94		370.94		370.94		370.94	358.80	12.14
7. Freight on above	342.00	86.95	86.95	-0-		-0-		-0-		-0-
	4,123.00	1,498.80	630.20	868.60		868.60		868.60	642.49	226.11
(c) Air-water lines										
1. 1200' 3" air line	840.00	129.86	119.67	10.19		10.19		10.19		10.19
2. 500' 2" air line	175.00	2.13		2.13		2.13		2.13		2.13
3. 1700' 1" water line	272.00)	44.88	43.09	1.79		1.79		1.79		1.79
4. 2000' 1½" " "	540.00)									
5. 1200' 18" vent tube	1,800.00	1,001.42	82.27	919.15		919.15		919.15		919.15
6. 4'x10' air receiver	250.00	250.00	40.00	210.00	(210.00)	-0-	49.50	-0-		
7. Fittings and valves	150.00	.14		.14		.14	29.18	(101.02)		101.02
8. Freight on above	220.00	32.15	32.15	-0-		-0-	22.48	-0-		
	4,247.00	1,460.58	317.18	1,143.40		933.40	101.16	832.24		832.24
(d) Bulldozer rental										
1. Building sites	200.00	8.00		8.00	(8.00)	-0-				
2. Pipe line	600.00	248.00		248.00	(248.00)	-0-				
3. Cleaning snow	1,200.00	554.00		554.00	(554.00)	-0-		-0-		
	2,000.00	810.00		810.00		None				
2. Equipment to be rented										
a. Compressor	3,290.00	470.00	470.00	-0-	1410.00	1,410.00	470.00	940.00	470.00	470.00
b. mucker	2,065.00	590.00	295.00	295.00	590.00	885.00	295.00	590.00	295.00	295.00
c. generator	1,750.00	716.38	172.27	544.11		544.11	172.27	371.84	172.30	199.54
d. Jeep	700.00	700.00		700.00	(700.00)	-0-	-0-	-0-	-	
e. trammer	3,325.00	950.00	475.00	475.00	950.00	1,425.00	475.00	950.00	475.00	475.00
	11,130.00	3,426.38	1,412.27	2,014.11	1155.00	1,155.00	385.00	770.00	385.00	385.00
f. Jumbo					3405.00	5,419.11	1,797.27	3,621.84	1,797.30	1,824.54

	Contract Authorizations	Balance Oct. 1, 1952	MF-104 October, 1952	Balance Oct. 31, 1952	Amendment 11/10/52	Balance Nov. 1, 1952	MF-104 November, 1952	Balance Dec. 1, 1952	MF-104 December 1952	Balance Jan. 1, 1953
3. Equipment to be purchased										
(a) Fuel tank	500.00	500.00	89.17	410.83	(410.83)	-0-		-0-		
(b) Blower fans	1,200.00	681.37		681.37		681.37		681.37		681.37
(c) 2 - 3" Drifters	1,750.00			-0-		-0-		-0-		
(d) Misc. tools	500.00	(284.79)	36.15	(320.94)		(320.94)		(320.94)		(320.94)
	3,950.00	896.58	125.32	771.26						
(e) Slusher ept.					800.00	800.00	24.90	208.20		208.20
					389.17	1,160.43	350.00	568.63		568.63
							216.90			
							591.80			
4. Labor and Supervision										
(a) 2 Outside men	5,510.00	(1,187.30)	1,198.11	(2,385.41)		(2,385.41)	1,299.50	(3,684.91)	1,240.55	(4,925.46)
(b) 1 Cook	2,100.00	800.00	250.00	550.00	200.00	750.00	250.00	500.00	250.00	250.00
(c) 1 Supt-Engr.	3,500.00	500.00	500.00	-0-	1,500.00	1,500.00	500.00	1,000.00	500.00	500.00
(d) 1 Geologist	2,800.00	2,800.00		2,800.00	(2,800.00)	-0-	-0-	-0-		
(e) Contract 1000' adit $13.50	13,500.00	9,426.98	777.15	8,649.83		8,649.83	1,740.94	6,908.89	2,082.90	4,825.99
(f) " 350' laterals $11.00	3,850.00	1,967.51	648.45	1,319.06		1,319.06	645.19	673.87	375.22	298.65
(g) " 150' raises $11.00	1,650.00	1,258.58	187.50	1,071.08		1,071.08	78.12	992.96	493.00	499.96
							81.56		218.70	
(h) C.I. & P. R. Taxes	3,291.00	1,143.17	373.41	769.76		769.76	393.36	294.84	318.11	(241.97)
	36,201.00	16,708.94	3,934.62	12,774.32	(1,100.00)	11,674.32	4,988.67	6,685.65	5,478.48	1,207.17
							50.00			
							98.78			
							6.83			
							55.60			
							361.36			
							190.53			
5. Rehabilitation & Repair										
(a) Move & repair B. S. shop	750.00	606.46		606.46	650.00	1,256.46	475.78	17.58		17.58
(b) Add change room	750.00	606.46					1,238.88			
6. Materials and Supplies										
(a) Powder, fuse & caps	3,000.00	888.26	1,625.00	(736.74)		(736.74)	205.59	(942.33)	113.90	(1,056.23)
			124.25							
(b) Steel and bits	1,375.00	(450.15)	306.35	(926.10)		(926.10)		(926.10)		(926.10)
			45.35							
							6.79		224.98	
(c) Fuel and Lube	3,200.00	1,882.43	45.58	1,578.30		1,578.30	30.66	1,578.30	213.68	1,139.64
			258.55				6.64			
(d) Timber	1,500.00	1,500.00	57.16	1,442.84		1,442.84	22.00	1,442.84		1,442.84
			3.00				61.71		25.08	
(e) Misc. Exp.	2,000.00	(527.09)	49.78	(1,024.51)		(1,024.51)	46.40	(1,590.74)	118.20	(2,087.01)
			11.31				56.50		30.55	
			32.05				13.00		3.34	
(f) Aerial photographs	11,075.00	3,293.45	50.00		250.00	250.00	250.00	-0-	30.00	
	75,476.00	28,739.65	54.30						13.35	
(g) Jackleg, steel & bits			21.64		975.00	975.00	526.58	448.42	5.40	448.42
			155.52			1,558.79	1,548.40	10.39	11.91	
			100.00						6.84	
			19.82						101.60	
			2,959.66	333.79	3,549.17	22,909.57	10,300.67	12,608.90	100.00	
									50.00	
									1,048.83	(1,038.44)
			9,379.25	19,360.40			Actual ctc bal.	9,059.73	8,967.10	3,055.59
									Actual etc bal	92.63 ← 92.63

Bance 132.64 100.00 39.81

COPY

NARRATIVE REPORT
Month of December, 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount $75,476.00
Government Participation 75%

The period covered by this narrative is from December 1 to December 31, 1952, during which 51 out of a possible 52 shifts were worked underground (on a 2 shift per day basis). One shift was lost because of post Christmas absenteeism.

1. Exploration Work (See Map D-100$_5$, Sheet 2, Attached)

Total advance for the month was 264.0 feet; 232.0 feet on footage contract and 32.0 feet on company wage account. On contract, 51 shifts were worked in the Pole heading and No. 5 Lateral-North, for an average advance of 4.55 feet per shift. On company account 3 shifts were worked in No. 3 Lateral-North Raise Drift and 9 shifts in No. 4 Lateral-North raise and Raise Drift. Total advance was 32.0 feet. Three shifts were used in setting up the slushers in No. 4 Lateral-North. Average advance on company wage account was 2.5 feet per shift. Exploration was divided as follows - 2.67

A Pole Tunnel (Contract A/c)

Total advance for the month was 196.5 feet. The tunnel was continued on a S 80° E course a distance of 79.0 feet, at which point it was turned southward to a S 73° E course for the remainder of the month. At the start the lime-shale contact was breast high in the face. As the adit advanced the contact slowly climbed and at 65.0 feet was in the extreme back of the tunnel. At 79.0 feet the tunnel was turned southward approximately 7° to stay just under the lime. This apparently accomplished its purpose. The mud bed mentioned in last month's report entirely disappeared as the tunnel passed through the E-W fault fissure.

At start plus 17.0 feet a N 30° W fault, dipping 70° westerly, was cut which dropped the East side about one foot. For the next 30 feet a series of N 5° W to N 20° E fissures, dipping steeply to the west, were cut. A strong quartz filled fissure, striking N 80° E with vertical dip, was cut at 47.0 feet. From 65 to 72 feet four strong N 40° E fissures, dipping 85° westerly were cut. At 104 feet another strong E-W quartz filled fissure was cut. From 116 to 144 feet, nine N-S trending fissures were cut and a strong E-W fissure cut obliquely across the tunnel. For the balanne of the advance four additional N-S trending fissures were cut. Since practically all of the month's advance was in shale just under the limestone, no scheelite mineralization was observed.

B Third Lateral-North (Wage A/c)

Month's advance in this area was 8.0 feet in a sub-level raise drift driven easterly entirely within the production bed. The ore zone at this point is plus 7.0 feet thick. Very strong scheelite mineralization came in on a series of N 70° E fissures dipping 80°-85° northerly. The entire 7 foot bed shows well disseminated scheelite ore. A muck pile sample of approximately 20 mine cars assayed 2.96% WO_3. This ore was placed in the DMEA stockpile.

C Fourth Lateral-North (Wage A/c)

Month's advance in this area was 24.0 feet. An incline raise drift was driven 16.0 feet on a N 5° E course into the ore bed. At 2 and 5 feet, respectively, E-W quartz and scheelite filled fissures were cut. Two mine cars of high grade ore selected from these fissures assayed 24.3% WO_3. The general muck pile sample from the first two rounds assayed 3.02% WO_3, but it is the writer's opinion that this sample was probably "salted" from the high grade fissure ore which may have dressed the muck pile.

Two faults, N 30° W and N 10° E, dipping westerly, cut this drift, dropping the east side about 3 feet. On the west side of the N 10° E fault and east of the N 30° W fault, a five foot bed of ankerite mud came in. This mud assayed 0.25% WO_3.

A second sub-level raise-drift was driven 8.0 feet on a N 60° E course on the east side of the faults. The bottom of this drift just cut the top of the ore bed. As it is advanced the bed will rise into the drift. Scattered scheelite mineralization shows in the E-W fissuring. Additional work will be done in this area next month.

D Fifth Lateral-North (Contract A/c)

Month's advance in this area was 35.5 feet. At start of DMEA plus 680.5 feet (portal plus 788.5 feet), a lateral was driven on a series of N 40° fissures a distance of 35.5 feet. At 15.0 feet a strong N 85° E quartz filled fissure was cut and at 31.0 feet a strong E-W fissure was cut. This latter fissure showed scattered scheelite mineralization. An incline raise drift will be run into the ore bed next month.

2. Other Work

The foundation for the combination blacksmith shop and change room were completed. Stormy weather hampered this outside work very much. However, the sills and plates were installed and work on the outside frame was started.

Severe freezing weather, with but little snow covering on the ground, froze the main supply waterline again and we were unable to thaw it. This necessitates hauling all camp and mine water from the valley, a distance of about seven miles.

COMBINED METALS REDUCTION COMPANY
P P. O. Box 150
COPY Salt Lake City 10, Utah.

Subject: Tungsten Ore Reserve at Mt. Wheeler Mine
To: : Mr. E. H. Snyder

From : Earl B. Young
Date : December 16, 1952

Sufficient development has been completed at the Mt. Wheeler Mine in its Pole Canyon tunnel to justify a restatement of the geological conditions that exist and to make a "guesstomate" of probable ore reserves as of this date. "Probable" as used in this letter includes "positive" and "probable" as ordinarily used.

The tunnel has advanced past the 900 foot mark and with its side crosscuts, raises and subdrifts, it has revealed a very interesting pattern of ore occurrence. We have dubbed this the Waffle-iron, and an explanation may be necessar y. The first work in the tunnel was based on the belief that there were several shear zones trending easterly across the area which would serve as guides for mineralizing solutions and gases. This conception must now be expanded to include another series of fracture zones which extend in a north-south direction across the amphitheatre. To date five of these N-S zones have been identified and designated A, B, C, D and E.

Zone "A" is cut in the tunnel from 24 feet to 95 feet from the portal. About 80 feet of sub-level work in the orebed produced 105 cars which assayed 3.68 WO_3 and a considerable amount of low grade. We feel justified in assigning a width to the zone at this point of 72 feet, extend it for 100 feet in a north-south direction and consider the ore thickness as 5 feet, although in some places it is up to 7 feet. Allowing 12 cubic feet to the ton, we obtain an estimated probable reserve of 3000 tons.

Zone "B" is cut from 142 to 216 feet from the portal and is also considered as 72 feet wide. The bed has been exposed by three raises from the No. 1 Lateral-South and by short drifts in the bed. Replacement by scheelite again occurs over a thickness which in places is six to seven feet. Again allowing 100 feet north and south with an average thickness of five feet, we have an additional probable reserve indicated of 3000 tons. The average assay from 125 cars from this zone was 0.62% WO_3.

Zone "C" is cut from 355 feet to 434 feet from the portal and is considered as 60 feet side. The bed was entered by one raise from which 40 cars averaged 0.12% WO_3. While this raise was driven on an east-west fracture, it seems to be in a lean part of the zone and is outside of our estimated block. Here, we assume a block 60 feet wide by 100 feet north and south and 5 feet thick. This gives 2500 tons. Grade is unknown, but as the zone is strong further work into the block is indicated.

Zone "D" is cut from 471 feet to 520 feet from the portal and is considered as 60 feet wide. The zone has been developed by No. 3 Lateral-North with a raise and 20 feet of sub-level. Strong mineralization shows along both the north-south and the east-west fractures and as replacement in the bed. The first 35 cars from the sub-level assayed 1.08% WO_3. Specimen ore occurs in the east-west fractures.

The very conservative estimate of 60 feet by 100 feet north-south by a thickness of five feet adds another 2500 tons to the probable reserve.

Zone "E" is cut from 582 to 682 feet from the portal and is considered as 90 feet wide. It is developed by No. 4 Lateral-North and a short incline up the beds parallel to the north-south fracturing. No assays are yet available but specimen ore was seen in the muck pile. We wish to estimate a block here 90 feet wide by 100 feet north-south by five feet thick, to contain 3750 tons of ore over 1% WO_3.

The total probable reserve from the five blocks outlined above totals 14,750 tons. This is enough to supply a 25-ton mill for nearly two years.

The possible reserve runs into such fantastic figures that they would probably only provoke doubt. Hence we content ourselves with a brief statement concerning the north-south zones which were not given due significance in our first studies, even though we did emphasize the long-range objectives offered by the Shefield, the Washington and the St. Lawrence fissures, all of which trend north-south. Now we find that these north-south fracture zones, separated by relatively tight areas are an important part of the fracture pattern. They are plainly seen in the quartzite walls of Pole Canyon about 1200 feet north of the portal of the tunnel. Also of special significance is the new series of colored air-photos taken by Phillip A. Laylander which show definite north-south alteration zones on the surface of the area being crossed by Pole tunnel.

In view of the recent developments we are now forced to expand our conception of the ore possibilities of Pole Canyon to include both east-west and north-south zones. The areas of intersection will be of better grade while the areas between the zones will be low grade or possibly waste. In general, the east-west fractures are frequently filled with quartz, sometimes carrying scheelite, while the north-south fractures tend to be open or filled with aragonite, mud and pebbles. The displacement on the fractures is usually a matter of inches, but is obviously sufficient to have prepared the zones for the entry of tungsten bearing solutions and gases. With such impressive mineralization in the north-south zones already encountered, we eagerly look forward to the intersection with the Shefield, now only about 1200 feet to go.

Respectfully submitted,

/s/ Earl B. Young
Earl B. Young

COPY

Mr. James D. Williams
Mt. Wheeler Mines Co.
P. O. Box 150
City 10

DEASON & NICHOLS
Assayers & Chemists
160 So. West Temple Street
Salt Lake City 1, Utah

December 18, 1952

Assay per ton of 2000 pounds

Description	No.	Gold ounces	Silver ounces	% WO_3
	313	General muck Pile grab #3 N Rse - 20 cars		2.96
	314	Muck pile grab #4 Lat No Rse drift-15 cars		3.02
	315	Muck pile grab Rs 1-2-3; #1 Lat So-15 cars		2.25

/s/ JDW

Charges $9.00

/s/ Wm. J. Deason

Mr. James D. Williams
Mt. Wheeler Mines Co.
P. O. Box 150
City 10

DEASON & NICHOLS
Assayers & Chemists
160 So. West Temple Street
Salt Lake City 1, Utah

December 31, 1952

Assay per ton of 2000 pounds

Description	% WO_3
Test Head # A 1-2-1 12/29/52	0.87
Test Head # B 12-30-1 12/29/52	0.58

Charges $6.00

/s/ Wm J. Deason

Mr. James D. Williams
Mt. Wheeler Mining Co.
P. O. Box 150
City 10

DEASON & NICHOLS
Assayers & Chemits
160 So. West Temple Street
Salt Lake City 1, Utah

December 2, 1952

Assay per ton of 2000 pounds

Description	% WO_3
35 cars to DMEA Stockpile from Rse drift in bedding No. 3 lateral-north 6'+ ore bed thickness 14' drive E from raise. /s/ J.	1.08

Charges $3.00

/s/ C. Ivan Nichols

Mr. James D. Williams
Mt. Wheeler Mining Co.
P. O. Box 150
City 10

DEASON & NICHOLS
Assayers & Chemists
160 So. West Temple Street
Salt Lake City 1, Utah.

December 17, 1952

Assay per ton of 2000 pounds

Description	% WO_3
# 305 Dup. of #307 - To CMR Co. Lab. type sample to - grade	0.13
# 306 Dup of #308 - " " " " " " " - mud	0.24
# 310 Very higrade - type sample only - 2 cars	24.28
312 Dup. of #311 to CMR Co. lab - type sample - low	0.16

Charges $12.00

/s/ C. Ian Nichols

Mr. James D. Williams
Mt. Wheeler Mining Co.
P. O. Box 150
City 10

DEASON & NICHOLS
Assayers & Chemists
160 So. West Temple Street
Salt Lake City 1, Utah

September 12, 1952

Assay per ton of 2000 pounds

Description No.	% WO_3
Rse #1-2-3 (1 Car grab - 125 cars #1 Lat. So. to stock-pile	0.62
#1 Lat. So. (2 Car grab - 40 " #1 Lat So. to waste dump	0.32

Charges $6.00

/s/ C. Ivan Nichols

Mt. Wheeler Mines Co.
Felt Bldg.
City

DEASON & NICHOLS
Assayers & Chemists
C. Ivan Nichols Wm J. Deason
160 So. West Temple Street
Salt Lake City 1, Utah

October 17, 1952

Assay per ton of 2000 pounds

Description	% Tungsten WO_3
Comp. # 1 Muck pile from No. 2 So. Lat raise & rse. drift approx 40 cars to waste dump.	0.12

Charges $3.00

/s/ C. Ivan Nichols

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 23 1952

GCL 1/6/53

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1952 Docket No. DMEA 2082 Contract No. Idm-2248
Operator's Name MT. HELENA MINES, INC. Minerals Tungsten
Address P.O. Box 150, Salt Lake City 10, Utah
Contract Amount, $ 75,476.00 Government Participation: 75 % Amount, $ 56,607.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Operator~~ Contracts:						
Drilling						
Bulldozing						
Crosscutting	1,740.94	4,561.76	6,302.70			
Drifting	404.31	2,444.23	2,848.54			
Raising		569.79	569.79			
(2) Labor and Supervision:						
Labor	1,868.50	3,971.96	5,840.46			
Supervision	500.00	2,000.00	2,500.00			
Technical Services	250.00		250.00			
(3) Operating Mat'ls. and Supplies:						
Timber		57.16	57.16			
Explosives	205.59	3,727.66	3,933.25			
Pipe		1,962.75	1,962.75			
Track		2,912.40	2,912.40			
Steel and bits		2,301.10	2,301.10			
Fuel and lube		1,621.70	1,621.70			
Vent tube		880.85	880.85			
(4) Operating Equipment:						
Rental	1,797.27	10,305.89	12,103.16			
Purchase	1,118.38	3,333.43	4,451.81			
Depreciation		1,141.43	1,141.43			
(5) Initial Rehabilitation and Repairs	1,273.37	8,379.56	9,652.93			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	262.06	352.25	614.31			
Sampling and Analysis		9.00	9.00			
Payroll Taxes, supplies	81.56	946.60	1,028.16			
Liability Insurance		172.28	172.28			
Workman's Comp.	393.36	1,574.64	1,968.00			
Administration	348.54	1,618.37	1,966.91			
(8) Contingencies (specify):						
Freight - supplies	6.79	650.35	657.14			
Freight - equipment		270.44	270.44			
Truck rent - hauling	50.00	350.00	400.00			
TOTALS	10,300.67	56,115.60	66,416.27			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Dec. 10, 1952 *Payee MT. HELENA MINES, INC.
Per James D. Williams Title President

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$ 7725.50
A. J. Renner
Authorized Certifying Officer
Signature
(Authorized Certifying Officer)
Date DEC 17 1952 Vou. No. SF-Dmea-29
(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. I[illegible] in accordance with the terms of the contract.

Signature George H. Holmes, Jr. Title Mining Methods Research Engineer Date Dec. 10, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H.C.Miller Title Executive Officer DMEA Field Team Region III Date Dec. 15, 1952

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 2 3 1952

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

Month of November 195 2 Docket No. DMEA 2082 Contract No. IGm-248
Operator's Name MT. MIDDLE MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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.)		58.5)		296.5)		350	
Crosscutting	Ft.)	7,908.92	171.0)	51,170.10	612.5)	52.70	1,000	
Raising	Ft.)		6.0)		62.0)		150	
Shafts								
Winzes			235.5					
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		7,908.92	235.5	51,170.10	971.0		1,500.0	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		1,118.38		4,451.81				
Initial Rehabilitation and Repairs				1,141.43				
New Buildings, Improvements, etc.		1,273.37		9,652.93				
TOTAL COSTS		10,300.67		66,416.27				

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

Date Dec. 10, 1952 Operator MT. MIDDLE MINES, INC.

Per James D. Williams Title President

REMARKS: A third shift, on company wages, was added on 11/17/52 so that lateral and raise work can be completed without stopping the advance of the Pole Tunnel on a two shift per day basis.

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
1952 DEC 11 PM 2:4
SAN FRANCISCO, CALIFORNIA

MT. WHEELER MINES, INC.
P. O. BOX 150
SALT LAKE CITY 10, UTAH

December 10, 1952

Mr. A. C. Johnson, Chief
Mining Division, Region III
United States Bureau of Mines
P.O. Box 1551
Reno, Nevada

Re: Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
MF-104 - November, 1952

Dear Mr. Johnson:

Attached are the original and four copies of our MF-104 statement of expenditures on the above captioned Exploration Project for the month of November, 1952. Also included are the following -

1. Narrative Report of Progress.
2. Certified copies of Equipment Purchase Invoices.
3. Monthly Progress Maps.

Very truly yours,

MT. WHEELER MINES, INC.
By

James D. Williams
President

JDW-K

Enc.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1952 DEC 11 PM 2:4

SAN FRANCISCO, CALIFORNIA

NARRATIVE REPORT
Month of November, 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount $75,476.00
Government Participation 75%

The period covered by this report is from November 1, to November 30, 1952, during which 46 out of a possible 52 shifts were worked underground (on 2 shift per day basis). Two shifts were lost because of the first heavy snowfall of the season; one because of equipment failure and three because of illness.

1. Exploration Work (See Map D-1005, Sheet 2, attached)

Total advance for the month was 235.5 feet; 211.0 on footage contract and 24.5 feet on company wage account. On contract, 46 shifts were worked in the Pole heading and No. 4 Lateral-North, for an average advance of 4.6 feet per shift. On company account, 10 shifts were worked in No. 2 Lateral-South and No. 3 Lateral-North for an average advance of 2.45 feet per shift. Exploration was divided as follows -

A Pole Tunnel (Contract A/c)

Total advance for the month was 171.0 feet. The tunnel was continued on a S 80° course for the full distance. The first 65 feet of advance cut a series of N-S to N 10° E fractures dipping from vertical to 75° Westerly. Scattered scheelite showings were observed. At 75 feet a strong N 50° E fissure dipping 80° Easterly was cut. This dropped the lime-shale contact two feet on the East side. At 94 feet another N 50° E fissure dipping 80° Westerly dropped the contact about 18 inches. This fissure contained appreciable amounts of scheelite. At this point a 2 foot mud seam, consisting of ankerite mud, came in between the lime and shale. At 100-110 feet one foot of the ore bed was exposed in the back of the tunnel and on top of the mud seam. Where so exposed, the ore bed contained heavy scheelite mineralization the full width of the tunnel. At 120 feet a strong N 80° E quartz fissure dipping vertically was cut. Considerable scheelite showed in the lime on both sides of this fissure. At 125 feet another N 50° E fissure dipping 80° Westerly was cut and showed scheelite. At 140 feet an E-W quartz fissure dipping 70° to the North came in on the South side of the tunnel. This cuts very flatly across the face. About one inch of gouge shows on this fissure and it was observed that some faulting resulted with the North side down about two feet. From this point to the face the mud entirely disappeared on the South side of this fault fissure. On the North side the mud was replaced by a 2 foot bed of what appears to be a sandstone. Considerable scheelite was observed in this sandstone layer. On top of this sandstone is a one foot layer of aragonite and on top of this, in the extreme back, is the limestone.

At the start of the month the lime-shale contact was about 2 feet above the bottom of the tunnel. This continued to rise slowly but was dropped by the

three N 50° E fissures at 75, 94 and 125 feet. At the end of the month this contact was about 4 feet above the bottom of the tunnel in the face.

B Second Lateral - South (Wage A/c)

Month's advance in this area was 11.5 feet; 6 foot raise and 4.5 foot raise drift East. The raise was extended an additional 6 feet in an effort to locate and identify the ore bed. The drift was extended an additional 4.5 feet Easterly. However, we are unable to identify the ore bed in this area and are holding the balance of this exploration in abeyance until such time as we are able to explain this situation. The muck-pile grab sample from this work assayed 0.12% WO_3. This low grade was dumped over the waste dump

C Third Lateral-North (Wage A/c)

Month's advance in this area was 14.0 feet. This work consisted of driving a 5' x 7' drift Easterly in the ore bed from the top of the incline raise. The productive bed in this area is 6'+ in thickness, strikes essentially E-W and dips about 9° Southerly. The bed consists almost entirely of ankerite in which scheelite occurs as a disseminated replacement. Four strong N-S fissures with nearly vertical dip were cut. Two N 70° E quartz fissures were also cut. A grab sample from 35 cars of ore produced from this drive in the ore bed assayed 1.08% WO_3. This has been added to the DMEA stockpile.

D Fourth Lateral-North (Contract A/c)

Month's advance in this area was 40.0 feet. At start of DMEA plus 508.5 feet a lateral was driven on a N 40° E course a distance of 40 feet. The location for this lateral was suggested by the very numerous N-S fissuring cut in the Pole Tunnel and the exposure of the ore bed in the back of the tunnel some 35 feet East of the lateral turn-out. Messrs. Gentry and Trengove of the Bureau of Mines assisted in this selection.

At 36 feet in the lateral the drift was inclined on a +45° to cut the ore bed. The first round cut the bottom of the productive bed. This will be continued into the bed next month and short drifts will be driven North and East in the ore zone.

2. Other Work

The balance of materials for the combination blacksmith shop and change room were delivered on the job and the foundation forms were completed. A heavy snowfall on November 15, 16 and 17, stopped this work and the entire crew was used to clear snow. The water supply tank and water line were moved underground to avoid freezing. On November 27 and 28, during Thanksgiving holiday, the main water supply line from the spring froze, cutting off our water supply for four days. However, only two underground shifts were lost. As soon as the weather moderates every effort will be made to complete the building.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1952 DEC 11 PM 2:4

SAN FRANCISCO, CALIFORNIA

2052

12-1-52 [illegible]

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 15 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October 1952 Docket No. DMEA 2082 Contract No. D-248

Operator's Name MT. WHEELER MINES, INC. Minerals TUNGSTEN

Address P. O. Box 150, Salt Lake City 10, Utah

Contract Amount, $ 75,476.00 Government Participation: 75 % Amount, $ 56,607.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Short Form~~ Contracts:						
Drilling						
Bulldozing						
Crosscutting	777.15	3,784.61	4,561.76			
Drifting	648.45	1,795.78	2,444.23			
Raising	187.50	382.29	569.79			
(2) Labor and Supervision:						
Labor	1,448.11	2,523.85	3,971.96			
Supervision	500.00	1,500.00	2,000.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	57.16		57.16			
Explosives	1,625.00	2,102.66	3,727.66			
Pipe	162.76	1,799.99	1,962.75			
Track	543.25	2,369.15	2,912.40			
Steel and bits	475.95	1,825.15	2,301.10			
Fuel and lube	304.13	1,317.57	1,621.70			
Vent tube	82.27	798.58	880.85			
(4) Operating Equipment:						
Rental	1,412.27	8,893.62	10,305.89			
Purchase	129.17	3,204.26	3,333.43			
Depreciation						
(5) Initial Rehabilitation and Repairs		1,141.43	1,141.43			
(6) New Bldgs., Improvements, etc.		8,379.56	8,379.56			
(7) Miscellaneous:						
Repairs to Equipment	32.95	319.30	352.25			
Sampling and Analysis	3.00	6.00	9.00			
Payroll Taxes	145.25	801.35	946.60			
Misc. Oper. supplies	172.28		172.28			
Liability Insurance						
Workmens' Comp.	228.16	1,346.48	1,574.64			
Administration	255.52	1,362.85	1,618.37			
(8) Contingencies (specify):						
Freight - supplies	138.92	511.43	650.35			
Freight - equipment		270.44	270.44			
Truck rent-hauling	50.00	300.00	350.00			
TOTALS	9,379.25	46,736.35	56,115.60			

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

Date Nov. 15, 1952 *Payee MT. WHEELER MINES, INC.

Per James R. Williams Title President

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

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

(Instructions on reverse)

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

$ 7034.44

A. J. Renner
Authorized Certifying Officer

Signature
(Authorized Certifying Officer)

Date DEC 3 1952 Vou. No. SF-DMCA-28

(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. [illegible] in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date November 19, 1952.
A. C. Johnson Region III

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Date Nov. 20, 1952
H. C. Miller Region III

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1952 Docket No. DMEA 2082 Contract No. E-248
Operator's Name MT. WHELLER MINES, INC. Minerals TUNGSTEN
Address P. O. Box 150, Salt Lake City 10, 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.)		65.5)		238.0)		350	
Crosscutting adit	Ft.)	9,250.08	78.5)	43,261.18	441.5)	58.82	1,000	
Raising	Ft.)		19.0)		56.0)		150	
Shafts								
Winzes			163.0					
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		9,250.08	163.0	43,261.18	735.5			TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		129.17		3,333.43				
Initial Rehabilitation and Repairs				1,141.43				
New Buildings, Improvements, etc				8,379.56				
TOTAL COSTS		9,379.25		56,115.60				

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. 15, 1952 Operator MT. WHELLER MINES, INC.

Per James R. Williams Title President

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

REMARKS: Thirty six out of a possible 50 underground shifts were worked. Average advance for month was 4.53 Ft. per round or 9.0 Ft. per day.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

NARRATIVE REPORT
Month of October, 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount $75,476.00
Government Participation 75%

The period covered by this narrative is from October 1, to October 31, 1952, during which 36 out of a possible 50 shifts were worked underground (on 2 shift per day basis). Two shifts were lost because of equipment failure; two because of absenteeism; four because of inability to complete mucking and drilling cycle within alloted time; and six because of injuries from underground accident.

1. Exploration Work (See Map D-1005 Attached)

Total advance for the month was 163.0 feet. Thirty-six rounds were drilled and blasted for an average advance of 4.53 feet per round. Exploration work was divided as follows -

A Pole Tunnel

Month's advance was 78.5 feet. The tunnel was continued on a S 80° course for the full distance. The first round of the month cut a series of E-W fractures which showed commercial scheelite mineralization where they intersected the productive bed in the back of the tunnel. At 19.0 feet a strong N 10° W fissure dipping 80° Westerly was cut. This was intersected by a N 80° E fracture. Both showed considerable scheelite. At 35.0 feet a very strong N-S fissure, with nearly vertical dip, was cut. This zone was approximately 4 feet in width and was filled with ankerite mud. Enclosed in this mud were numerous ankerite boulders, weighing up to a ton, which, when drilled and blasted for loading, turned out to be good scheelite ore and was placed in the DMEA stockpile. This fissure sloughed vertically to the bottom of the upper shale, a distance of 20 feet, and timbering was required to advance through this zone.

From 35 to 50 feet, three N 5° to 20° W fissures, dipping 80° Westerly, were cut. All lamped scheelite and some bedded scheelite was also observed. At 66 feet a strong N 10° E fissure was cut and at 74 feet a strong N 25° W fissure was cut. Both showed scheelite in the bed. Through this area, a distance of 78.5 feet, we have observed the strongest and most persistent tungsten showings in the tunnel proper to date.

At the start of the month the lime-shale contact was about one foot above the bottom of the tunnel. This did not rise perceptibly for the next 35 feet, and dropped about a foot on the strong N-S fissure cut at that point. For the remainder of the month the contact rose very slowly and by the end of the month was about two feet above the bottom of the tunnel.

B Second Lateral-South

Month's advance in this area was 4.5 feet in a drift driven Easterly from the raise at the end of the lateral. This drift was inadvertently driven on the lime-shale contact and appears to be just under the productive bed. Scheelite mineralization shows in the back of this drift. This drift will be raised into the ore zone and continued Easterly within the productive bed. Ore thus removed will be car sampled as it is dumped in the stockpile.

C Third Lateral-North

Month's advance in this area was 80.0 feet. At start of DMEA plus 365.5 feet a lateral was driven on a N 20° E course a distance of 61 feet to cut the strong E-W quartz fissure zone which was discussed in the August, 1952, narrative under "1. Pole Tunnel". The first strong E-W fissure was cut at 37 feet and the zone continued to the face. Two other very strong E-W quartz filled fissures were cut at 50 and 54 feet respectively. All contained good scheelite showings. A raise was driven, at 50 feet, Easterly at +40° into the productive bed. At 12 feet the strong N-S fissure reported in the tunnel was cut. Good scheelite ore was observed in both the fissure and the bedding although the mud from the fissure masks a considerable portion of the ore. A raise drift will be run Easterly in the productive bed next month and all ore removed will be car sampled as it is dumped in the DMEA stockpile.

2. Other Work

The Geological Staff of Combined Metals Reduction Company spent three days at the property for the purpose of investigating the replacement nature of the ore and to assist with the geological evaluation of the exploration project. A transit survey of the underground was made with adjustment to the true meridian. A statement of their joint findings is appended hereto.

COMBINED METALS REDUCTION COMPANY

P. O. BOX 150

SALT LAKE CITY 10, UTAH

REPORT ON THE GEOLOGICAL DEVELOPMENTS AT MT. WHEELER MINES, INC.

Prospecting work at the Mt. Wheeler Mines, Inc., having reached the stage where tungsten ore is known to occur in the Wheeler bed in significant quantities, the management requested an independent appraisal of the ore possibilities. Consequently Requa, Thomas and Hagen visited the property for the desired examination. Mr. Young, being unable to accompany them, has reviewed the report in the light of his previous observations.

This examination was for the particular purpose of investigating the scheelite ore occurrence and of evaluating the adequacy of the present program of exploration. A transit survey of the workings was made by Mr. Hagen, with adjustment to the true meridian.

The country rock at the mine consists of a series of sediments in the Lower Cambrian formation, which occur in a broad, flat-lying dome that pitches at a low angle to the south. Erosion has developed a striking amphitheatre, which drains into Pole Canyon. This type of erosion naturally suggests the presence of numerous cross fractures which have made the formation of the amphitheatre possible.

A large exposure of granitic material, a mile or more to the northeast, suggests that the doming may be associated with this intrusion and that the multiple fracturing in Pole Canyon may be the result of gradual settling due to the cooling of the magma below this area. Thus many channels have been provided for the entry of hydrothermal solutions and gases into the favorable beds.

The total thickness of the Wheeler limestone bed is about 22 feet. This bed lies only a few feet above the contact with the underlying Prospect Mountain quartzite. The Wheeler bed is part of the Pioche shale formation. The middle portion of the Wheeler bed has been found favorable for replacement by scheelite and has been highly altered by hydrothermal solutions. The favorable portion is usually four to five feet thick. In the exposed faces the ore has been found to be a combination of scheelite bearing quartz and replaced limestone.

This bed has been highly fractured, but not greatly displaced, over quite a wide area, which is at least 1000 feet in a north-south direction by about 600 feet in an east-west direction as evidenced by surface exposures and recent development work.

Quartz has been deposited on most of these fractures, as well as ankerite and scheelite. This is best developed at fracture intersections where limestone replacement ore occurs.

The development program, under the present DMEA project, has been confined to driving a tunnel under the productive bed, which has a flat dip to the south and by raising into this bed at selected places. This program has demonstrated ore, but fails to give sufficient information on the extent of such ore.

As exposed to date the ore shoots have been assumed to constitute a tabular body of ore four to five feet thick, twenty or more feet wide and of unknown length. The long dimension of the ore evidently follows east-west fracturing.

This zone does not contain all of the ore possibilities of the Mt. Wheeler property. Fracturing of the Wheeler bed is sufficiently widespread in the Pole Canyon area to provide other loci of ore deposition and these should eventually be investigated.

The known ore zone has been referred to as a shear zone, which is probably a misnomer. It is our belief that this structure should be called a fracture pattern, which would provide a much wider area for ore deposition than the zone now under consideration.

Knowledge of the continuity of the ore shoots is now vital and the present program fails to provide this information. The raises, now in ore, fail to give sufficient information for the calculation of an ore reserve.

To get some adequate idea of the tonnage we suggest that a certain portion of the prospecting footage be allocated to driving in the ore bed. What portion of the total footage should be devoted to this purpose will be a matter that experience will dictate, but for an initial effort in this direction and for footage that can be allocated from the remaining footage in the present DMEA contract, we suggest the following -

Slusher drifts should be run from the following raises:

1. From the #1 South Lateral, Raise #2, in a N 20° W direction, up dip in the bed for a distance of 70 feet.

2. From the #2 South Lateral, Raise #1, in a N 10° W direction, up dip in the bed for a distance of 105 feet.

3. From the #3 North Lateral, Raise #1, in a northerly direction for 60 feet up dip in the bed and, from this same raise, a drive in an easterly direction for 40 feet in the bed.

This is a total footage of 275 feet and in order that this work may be permissible under the DMEA contract it is suggested that it be deducted from the 1000 feet which has been allowed for the main adit.

Any future extension of the DMEA project should allow amply for such prospecting work in the Wheeler bed.

In all drives on ore we suggest that continuous samples be taken. We consider cut samples unreliable in the irregular mineralization pattern usually found in most tungsten mines. We, therefore, suggest systematic muck samples be taken from the cars of ore, or waste, removed from each heading in the ore bed.

For the above reason we cut no samples on this examination but did carefully examine each ore face with the tungsten light. The management advised us that the stock pile muck samples taken from the ore removed from all DMEA exploration faces averaged 0.62% WO_3 and that these faces by selective mining, or with sorting, should produce plus 1% ore.

It should be noted that no faults having any significant displacement have been encountered so far. As the main tunnel advances some faults will be found, also some quartz veins. Our examination did not include the consideration of these possibilities, but we believe such structures should be studied in more detail. A real dislocation of the Wheeler bed, along a strong mineralizer, could result in a very significant deposition of tungsten ore.

The Sheffield fissure is the first strong quartz vein known to exist immediately ahead of the main tunnel. This vein runs about north and south and should be cut in another 1000 feet, more or less, of advance by the main tunnel. Where the Sheffield fissure has been explored it consists of a five foot quartz filled fissure containing high temperature lead ore.

In general we can say that the Mt. Wheeler development is very encouraging. It is a type of replacement deposit that is not well known to the tungsten industry. If successfully developed, and we believe that it has such possibilities, it should open up a new field for tungsten exploration.

While our inspection was not a general mine examination we would like to comment on the neat and orderly condition of the camp and the mine. It was a pleasure to see such efficiency and organization at such an early stage of this operation. We also wish to thank Mr. Williams, president and general manager of this company, for his complete cooperation and kind hospitality during the course of this examination.

L. K. Requa

L. K. Requa

Earl B. Young

Earl B. Young

L. G. Thomas

L. G. Thomas

C. R. Hagen

C. R. Hagen

K

dmy
25-1-11
1 326

OFFICE OF
THE SECRETARY OF THE INTERIOR

Sept. MF-104 shows extra labor charge of $1,127.25.

Of this only cook cost 1 man allowed cook at $360.00/mo.

$827.25 for one man?

Cost per foot without taxes
Does not include cook's salary.
Labor $13.72

Labor & taxes in $15.81

Cost per foot including payroll taxes

Labor & taxes in line taxes $17.39

400

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1952

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

November 7, 1952

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Operators' Monthly Progress Reports - Forms MP-104 & 104A

Enclosed herewith are two copies of each of the subject reports received from the following operators as listed below. These reports have been audited and passed to the Treasury for payment.

Contract No.	Operator	Report dated	Period covered
Idm-E248 DMEA-2082	Mt. Wheeler Mines, Inc.	Oct. 20, '52	Sept. 1952
Idm-E295 DMEA-2309	Comet Mines, Inc.	Oct. 22, '52	Sept. 1952
Idm-E296 DMEA-2360	Holmestake Mining Co.	Oct. 21, '52	Aug. 1952
Idm-E379 DMEA-2455	Aubrey Minney	Oct. 12, '52	Sept. 1952

H. C. MILLER

H. C. Miller
Executive Officer, DMEA Field Team
Region III

Attachments

Copy to: E. H. Bailey, USGS

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

UNITED STATES
[redacted]RTMENT OF THE INTERIOR[redacted]
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.
Defense Minerals Administration
RECEIVED
NOV 12 1952

11/13/52

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1952 Docket No. DMEA 2082 Contract No. ICm-3248
Operator's Name MT. MILLER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $ 75,476.00 Government Participation: 75% Amount, $ 56,607.00

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 [redacted] Contracts:						
Drilling						
Bulldozing						
Crosscutting 82'	841.09	2,943.52	3,784.61	10,26/ft		
Drifting 125'	1,282.16	513.62	1,795.78	10,26/ft		
Raising 32'	328.23	54.06	382.29	10,26/ft		
(2) Labor and Supervision: 239						
Labor	1,127.25	1,396.60	2,523.85	cook + 1 man. ?		
Supervision	500.00	1,000.00	1,500.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives		2,102.66	2,102.66			
Pipe		1,799.99	1,799.99			
Track	51.47	2,317.68	2,369.15			
Steel and bits	329.36	1,495.79	1,825.15			
Fuel and lube	281.32	1,036.25	1,317.57			
Vent tube	798.58		798.58			
(4) Operating Equipment:						
Rental	1,412.27	7,481.35	8,893.62			
Purchase	297.07	2,907.19	3,204.26			
Depreciation						
(5) Initial Rehabilitation and Repairs		1,141.43	1,141.43			
(6) New Bldgs., Improvements, etc.		8,379.56	8,379.56			
(7) Miscellaneous:						
Repairs to Equipment	164.72	154.58	319.30			
Sampling and Analysis	6.00		6.00			
Payroll Taxes	169.25	632.10	801.35			
Liability Insurance						
Workmen's Comp.	207.67	1,138.81	1,346.48			
Administration	128.90	1,233.95	1,362.85			
(8) Contingencies (specify):						
Freight - supplies	14.39	497.04	511.43			
Freight - equipment		270.44	270.44			
Truck rent - hauling	50.00	250.00	300.00			
TOTALS	7,989.73	38,746.62	46,736.35			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Oct. 20, 1952 *Payee MT. MILLER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 5992.30

A. J. Renner
Signature Authorized Certifying Officer
(Authorized Certifying Officer)

Date NOV 5 1952 Vou. No. SF-Dm Ea-25

(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. [illegible] in accordance with the terms of the contract.

Signature A. C. Johnson Title [illegible] Date [illegible]

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. O. Miller Title Executive Officer DMEA Field Team Region III Date Oct. 31, 1952

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires

Defense Minerals Administration
RECEIVED
NOV 12 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 195 2 Docket No. DMEA 2082 Contract No. Idm-1248
Operator's Name MT. MEEKER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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.		125.0		172.5		350	
Crosscutting	ft.	7,692.66	82.0	34,011.10	363.0	59.41	1,000	
Raising	ft.		32.0		37.0		150	
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		7,692.66	239.0	34,011.10				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		297.07		3,204.26				
Initial Rehabilitation and Repairs				1,141.43				
New Buildings, Improvements, etc.				8,379.56				
TOTAL COSTS		7,989.73		46,736.35				

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

Date Oct. 20, 1952 Operator MT. MEEKER MINES, INC.

Per James D. Williams Title President

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

REMARKS: Fifty-one out of a possible 52 shifts were worked this month. Average advance for month was 4.686 ft. per shift or 9.37 ft. per day.

(Instructions on reverse)

(For Government use only)

NOV

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

NARRATIVE REPORT
Month of September, 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E 248
Contract Amount $75,476.00
Government Participation 75%

The period covered by this report is from September 1, 1952, to September 30, 1952, inclusive, during which 51 out of a possible 52 shifts were worked (on a 2 shift per day basis). One shift was lost because of a crew change on the day shift. The following work was accomplished.

51

Exploration Work (See Map D-100-4 Attached)

Total advance for the month was 239.0 feet. Fifty-one rounds were drilled and blasted for an average of 4.686 feet per round. Exploration work was divided as follows -

239

1. Pole Tunnel

Month's advance was 82.0 feet. The tunnel was continued on a S 65° E course for a distance of 27.0 feet at which point a roll in the bedding was encountered which dropped the lime-shale contact to the bottom of the tunnel in approximately 25 feet. This roll started on a strong N 20°W cross fissure dipping 60° Westerly. No horizontal or vertical displacement could be observed. The course of the tunnel was immediately changed, by a gradual 15° Northerly turn, to S 80° E. By the end of the month, at 82.0 feet, the contact began to rise slowly above the bottom of the tunnel. Considerable scheelite shows under the 'light' in the limestone bedding between the point of the roll and the face of the tunnel.

2. First Lateral South

Month's advance in this area was 109.5 feet, divided as follows -

(a)	Extension of Lateral on S 22° E course		51.5 Ft.
(b)	No. 1 Raise	5.0 Ft.	
	Raise drift East	10.5	
		15.5 Ft.	15.5
(c)	No. 2 Raise	10.0 Ft.	
	Raise drift East	15.0	
		25.0 Ft.	25.0
(d)	No. 3 Raise	5.5 Ft.	
	Raise drift East	12.0	
		17.5 Ft.	17.5
			109.5 Ft.

Upon consultation with Mr. George Selfridge, Chief of the Tungsten Branch of DMEA, Mr. Russel Trengrove of the Bureau of Mines, and Messrs. Ralph Roberts and Roscoe Smith of the Geological Survey, it was decided to continue this lateral South to the 100 foot point in order to explore fully the width of this productive zone. This was done and three raises were driven into the productive bed at 25 foot intervals. From the tops of these raises three drifts were run Easterly in the ore zone. The productive bed thus exposed averaged approximately 7 feet in thickness and all faces sample plus 1.0% WO_3. Approximately 125 mine cars (100-110 tons) of broken material from the raises and raise drifts, including waste and low grade from the initial drive from the lateral into the productive bed, was placed in the ore stockpile. A continuous grab sample taken from each car as dumped assayed 0.62% WO_3.

The results of this exploration in the No. 1 South Lateral area suggests the following conclusions -

1. The minimum N-S width of the productive E-W ore zone is at least 100 feet.

2. The productive bed has an average thickness of 7 feet.

3. Ore production from this area should average plus 1.0% WO_3.

4. The lateral should be extended Southerly until the limit of this E-W shear zone has been reached and raises driven into the productive bed at appropriate intervals.

5. Provisions should be made for N-S drifting in the productive bed above the level.

3. Second Lateral South

Month's advance in this area was 47.5 feet, divided as follows -

(a)	No. 2 Lateral drive on S 5° E course	36.0 Ft.
(b)	No. 1 Raise on N 80° E course	11.5
		47.5 Ft.

This drive was entirely in the shale following a strong S 5° E cross fissure. The lime-shale contact is exposed in the back of the lateral at the face. The No. 1 Raise was started at 25 feet from the main adit on a N 80° E quartz fissure. Two raise rounds were drilled and blasted by the end of the month. Scheelite mineralization showed where the raise broke into the limestone. One more raise round should reach the productive bed. Further exploration will be continued next month.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 5 1952
11/13/52

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 1952 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $ 75,476.00 Government Participation: 75 % Amount, $ 56,607.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Short Form~~ Contracts:						
Drilling						
Bulldozing						
Crosscutting	1,708.52	1,235.00	2,943.52			
Drifting	513.62		513.62			
Raising	54.06		54.06			
(2) Labor and Supervision:						
Labor	634.25	762.35	1,396.60			
Supervision	500.00	500.00	1,000.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives		2,102.66	2,102.66			
Pipe		1,799.99	1,799.99			
Track		2,317.68	2,317.68			
Steel and bits	200.00	1,295.79	1,495.79			
Fuel and lube	20.20	1,016.05	1,036.25			
(4) Operating Equipment:						
Rental	1,412.27	6,069.08*	7,481.35*			
Purchase		2,907.19	2,907.19			
Depreciation						
(5) Initial Rehabilitation and Repairs		1,141.43	1,141.43			
(6) New Bldgs., Improvements, etc.		8,379.56	8,379.56			
(7) Miscellaneous:						
Repairs to Equipment	59.70	94.88	154.58			
Sampling and Analysis						
Payroll Taxes	147.47	484.63	632.10			
Liability Insurance						
Workmen's Comp.	197.88	940.93	1,138.81			
Administration	449.64	784.31	1,233.95			
(8) Contingencies (specify):						
Freight - Supplies	50.18	446.86	497.04			
Freight - Equipment		270.44	270.44			
Truck Rent - Hauling	50.00	200.00	250.00			
TOTALS	5,997.79	32,748.83	38,746.62			

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

Date Sept. 15, 1952 *Payee MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 4498.34

Signature [illegible] (Authorized Certifying Officer)

Date 1952 Vou. No. SF-DMEA-24
(See other side)

*Equipment rental totals have been decreased by $100. in order to reflect disallowance of $100. "Jeep" rental on February, 1952. MF-104.

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 1[illegible]-248 in accordance with the terms of the contract.

Signature R. C. Johnson Title Chief, Mining Div. Region III Date Sept. 19, 1952.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date Sept. 25, 1952

R. S. Miller

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 5 1952

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1952 Docket No. DMEA 2082 Contract No. Idm-F248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, 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.	)	47.5)	)	47.5)		350	
Crosscutting	Ft.	)5,997.79	158.0)	26,318.44*	281.0)	78.92	1,000	
Raising	Ft.	)	5.0)		5.0)		150	
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		5,997.79	210.5	26,318.44*				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				2,907.19				
Initial Rehabilitation and Repairs				1,141.43				
New Buildings, Improvements, etc.				8,379.56				
TOTAL COSTS		5,997.79		38,746.62				

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

Date Sept. 15, 1952 Operator MT. WHEELER MINES, INC.

Per [signature] Title President

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

REMARKS: * $100.00 "Jeep" rental disallowed on February, 1952, MF-104 has been deducted to reflect proper balance.

Two shift per day operation started on August 6, 1952. Average daily advance for month has been 9 feet.

(Instructions on reverse)

(For Government use only)

$12.40 no reference a tape

Letter

OK

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

NARRATIVE REPORT
Month of August - 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten; Idm-E248
Contract Amount $75,476.00
Government Participation 75%

The period covered by this report is from August 1, 1952, to August 31, 1952, inclusive, during which 47 out of a possible 52 shifts were worked (on 2 shift per day basis for 26 days; Sundays excluded). Two shifts were lost because of failure to secure a night shift as of the start of the month; two shifts were lost because of delay in powder delivery to the mine and one shift was lost because of illness. The following work was accomplished.

49

Exploration Work (See Maps D-1004 and C-1 attached)

The night shift was added on August 6, and the total advance for the month was 210.5 feet. Forty seven rounds were drilled and blasted for an average of 4.48 feet per round. Exploration was divided as follows.

210.5

1. Pole Tunnel

Month's advance was 158.0 feet. The tunnel continued on a S 80° E course for a distance of 91.5 feet, at which point (start of project plus 214.5 feet) it was turned to a S 65° E course for the balance of 66.5 feet. This followed the strike of the bedding, all in shale, and approximately 9.0 feet underneath the lime-shale contact. Eight well defined N-S trending fissures were cut, all of which contained quartz filling. Three minor faults, showing very slight movement, were cut. In the last 45 feet of the advance three E-W trending fissures, approximately 4 inches in width and solidly quartz filled were cut. These showed considerable scheelite under the 'light'. It would appear that in turning the tunnel to a S 65° E course, in order to follow under the lime-shale contact, we are now crosscutting the productive south shear zone at a rather flat angle. We plan to continue the tunnel on this course until this shear zone has been completely crossed. A lateral will be started south at an appropriate point to explore the shear zone in this area.

2. First Lateral South

At start plus 72.5 feet in the Pole Tunnel, a lateral was driven S 22° E a distance of 47.5 feet. At start of lateral plus 15.0 feet a raise was started on a +60° incline, Easterly, into the productive bed. A five foot round was drilled and blasted. Total combined lateral footage for the month was 52.5 feet. Exploration was as follows -

(a) Lateral

In a distance of 47.5 feet seven very prominent E-W trending, quartz filled fissures were cut. All showed scheelite mineralization. The largest and most heavily mineralized one was in the face of the lateral as indicated on the Map, C-1. At start of lateral, the lime-shale contact was directly in the back of the tunnel. In the face, at 47.5 feet, the contact is approximately 3 feet below the back. We are very close to the productive middle bed at the face and that probably accounts for the more pronounced scheelite showing in the E-W fissure at that point.

This drive has demonstrated a shear zone width of at least 55 feet south from the Pole tunnel, which, in all probability, will continue some distance further south as indicated from surface studies. The lateral should be continued south to demonstrate the total width of this productive shear zone so that we may have such important information to guide us in projecting the Pole tunnel and the other laterals.

(b) Raise

The first raise, started 15 feet inside the first lateral, was advanced 5 feet on a +60° incline to the East. The first round broke into the N-S trending fissure which paralleled the lateral a few feet to the East. Commercial scheelite ore, raise width, was encountered at that point (as indicated by the 'light'). The top of the raise is just about at the bottom of the productive bed. This raise will be continued through the productive bed, after which short drifts will be driven East and West in the ore zone. All ore thus removed will be stockpiled separately and grab samples taken from each mine car as dumped. This will make up the sample for assay which will be reported as the average grade of ore discovered in this area.

A second raise should be driven into the ore zone on the strong E-W fissure showing in the face of the lateral in order that the N-S extent of the ore zone may be properly demonstrated.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1952 Docket No. DMEA 2082 Contract No. Ida-2248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $75,476.00 Government Participation: 75 % Amount, $56,607.00

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:						
Drilling						
Bulldozing						
Crosscutting	1,235.00	10.04	1,235.00			
Drifting						
Raising						
(2) Labor and Supervision:		3.76				
Labor	762.35		762.35			
Supervision	500.00		500.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives	2,102.66		2,102.66			
Pipe		1,799.99	1,799.99			
Track		2,317.68	2,317.68			
Steel and bits	148.56	1,147.23	1,295.79			
Fuel and lube	164.52	851.53	1,016.05			
(4) Operating Equipment:						
Rental	1,412.27	4,756.81	6,169.08		4656.81	6,069.08
Purchase	381.00	2,526.19	2,907.19			
Depreciation						
(5) Initial Rehabilitation and Repairs	83.00	1,058.43	1,141.43			
(6) New Bldgs., Improvements, etc.		8,379.56	8,379.56			
(7) Miscellaneous:						
Repairs to Equipment	94.88		94.88			
Sampling and Analysis						
Payroll Taxes	112.38	372.25	484.63			
Liability Insurance						
Workmen's Comp.	31.03	909.90	940.93			
? — Administrative	187.50	596.81	784.31			
(8) Contingencies (specify):						
Freight - Supplies	3.96	442.90	446.86			
Freight - Equipment		270.44	270.44			
Truck Rent - Haul	50.00	150.00	200.00			
TOTALS	7,269.11	25,579.72	32,848.83		25,479.72	32,748.83

I certify that the above bill is correct and just and that payment therefor has not been received.
Date August 15, 1952 Payee MT. WHEELER MINES, INC.
Per [signature] Title President

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

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

(Instructions on reverse)

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

$

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. [illegible] in accordance with the terms of the contract.

Signature [illegible] Title [illegible] Date [illegible]

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title [illegible] Date [illegible]

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 29 1952

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1952 Docket No. DMEA 2082 Contract No. Idm-5248
Operator's Name MT. WHEELER MINES, INC. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah

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.						350	
Crosscutting	Ft.	6,805.11	123.0	20,420.65	123.0	166.02	1000	
Raising	Ft.						150	
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		6,805.11	123.0	20,420.65				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		381.00		2,907.19				
Initial Rehabilitation and Repairs		83.00		1,141.43				
New Buildings, Improvements, etc.				8,379.56				
TOTAL COSTS		7,269.11		32,848.83				

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 August 15, 1952 Operator MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

REMARKS: One shift per day basis during month of July because of manpower shortage. Arrangements are now completed for two shift per day operation starting first week in August.

(Two shifts were actually started on August 6, 1952, and average daily advance is now 9.4 ft. per day.)

(Instructions on reverse)

(For Government use only)

ACCOUNTS AUG 26 1952

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

NARRATIVE REPORT
Month of July - 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
DMEA-2082-Tungsten - Idm-E248
Contract Amount $75,476.00
Government Participation 75%

22 The period covered by this report is from July 6, 1952, to July 31, 1952, inclusive, during which 22 shifts were worked. The following work was accomplished.

1. Surface Installations

A three phase power line was run from the generator to the tunnel portal; both buildings were wired for lights; three floodlights were installed on the dump and the 5 H.P. blower was installed and connected. Twelve inch flexible blower line was run into the tunnel for ventilation. Steel side boards were welded on the mine cars to increase their capacity and to eliminate spillage from the loader.

2. Exploration Work

(a) Advance

123 A total advance of 123.0 feet was made on a one shift basis. Twenty-six rounds were drilled and blasted for an average of 4.73 feet per round in a 6 x 7 section. We were unable to secure an adequate crew for the second shift in the tunnel during the month but it now appears that this difficulty has been overcome and that a night shift will be added the first week in August. (This shift was added on August 6.)

(b) Geology

The tunnel continued on a S 80° E course during the month. At the start of the drive (portal + 108.0 ft.), the lime-shale contact was 5.0 feet above the bottom of the tunnel. This contact rose slowly and was in the top of the tunnel at start plus 74.5 feet. By the end of the month, at start plus 123.0 feet, the contact was approximately 1.5 feet above the back. It would appear that the tunnel should be turned southward about 15° in order to keep this contact at the back (S 65° E course). However, it was decided to keep the tunnel straight until the first 200 foot section had been driven and the first lateral south completed, so that additional evidence would be available to guide us in projecting the turn to avoid undue crookedness in the tunnel.

Numerous N-S trending cross fissures were cut as shown on the 20 scale detail Map D-1 attached hereto. These were very strong fractures and were plainly visible in the underlying shale. A brief description of the most prominent ones follows.

1. At start plus 17.0 feet a fissure 2 foot in width, striking N 30° W with a 70° westerly dip was cut. A very good showing of scheelite was observed across its entire width and length in the back of the tunnel. No samples were taken but it appeared to be of mining grade.

2. At start plus 35 to 40 feet three converging fissures striking N 10° W, N-S and N 20° E, respectively, all with a nearly vertical dip, were cut. These showed considerable scheelite mineralization in the limestone on the south side of the tunnel.

3. At start plus 80 to 85 feet, two parallel fissures striking N 25° W and N 20° W with 55° to 65° westerly, dips were cut. Both showed scheelite mineralization. At this point (start plus 86.0 ft.) a fault striking N 70° W with a vertical dip, cut obliquely across the tunnel from north to south. No horizontal displacement was observed on the N-S cross fissures where cut by this fault and only a very slight vertical displacement was observed on the lime-shale contact (about 6 inches with the northeasterly side up).

4. At start plus 90 and 100 feet, two additional fissures were cut (N 20° W and N 10° W with nearly vertical dips). Where these two fissures cut the N 70° W fault good scheelite showings were observed in the limestone as well as in the fissures.

(c) First Lateral South

From the evidence gained in the tunnel drive it would appear that the most favorable position for the first lateral drive south is at start plus 75.0 feet. From this point a 25 foot south drive should place us well into the E-W productive shear zone, after which a 20 foot drive easterly within the shear zone should cut the three N-S trending fissures as indicated on the detail map. This lateral work will be started early next month.

MT. WHEELER MINES, INC.
P. O. BOX 150
SALT LAKE CITY 10, UTAH

July 15, 1952

Mr. A. C. Johnson, Chief
Mining Division, Region III
United States Bureau of Mines
P.O. Box 1551
Reno, Nevada

Re: Mt. Wheeler Mines, Inc.
DMEA-2082; Idm- E 248
MF-104, June, 1952

Dear Mr. Johnson:

Attached are the original and four copies of our MF-104 (Rev.) statement for the month of June, 1952. Also included are the following -

1. Narrative Report of Progress
2. Certified Copy of Project Payroll
3. Certified Copies of Invoices
4. Work Sheet Showing Method of Converting MF-104 items from old form to new form

Very truly yours,

MT. WHEELER MINES, INC.
By

James D. Williams
President

JDW-K

Enc.

JUL 23 1952

GCS 8/7/52

NARRATIVE REPORT
Month of June, 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
Contract Idm-E 248; DMEA-2082
Contract Amount $75,476.00
Government Participation 75%

The period covered by this report is from June 1, 1952, to July 5, 1952, inclusive, a total of five calendar weeks, during which 28 shifts were worked. The following work was accomplished.

1. Buildings

The compressor building was completed and the blacksmith building repaired for use as a warehouse and shop.

2. Equipment

The compressor, generator and battery charging equipment were mounted on the concrete foundations and placed in operation.

3. Surface Installations

The 2250 gallon diesel storage tank, 550 gallon gasoline storage tank, the 4' x 10' air receiver and the 3' x 8' water pressure tank were installed at the mine. Three inch air line and 1 inch water line were run to the portal. Twenty pound rail and a turn out switch were installed on the dump; one track to the waste dump; the other to the compressor house.

4. Underground Work

It was necessary to enlarge and straighten the first 15 feet of the Pole tunnel in order to make room for the air, water and blower lines. This also provided clearance for the battery trammer and mucking machine. Three 6' x 7' timber sets were installed. Twenty pound rail, 3 inch air line and 1 inch water line were run from the portal to the face.

5. Water System

The 1 inch water line from the spring in North Pole canyon was installed and was covered a minimum of 3' to protect against winter freezing. The line delivers 20 g.p.m.

6. Exploration Work

The first round in the face of the Pole tunnel was drilled and blasted on June 30. It is anticipated that advance will be one round, in and out per day, until about July 15, at which time a second shift is planned. It was thought best to defer the second shift until all the equipment had been broken in and the mining routine established on the one shift basis. Average advance is 5.6 feet per round in a 6' x 7' section.

A. C. Johnson, Chief, Mining Div., Reg. III July 14, 1952

Russell R. Trengove, Mining Engineer, Bureau of Mines, Reg. III

Mt. Wheeler Mines Corp. (tungsten), Contract Idm-E248

This property was visited on July 9, 1952. During the month of June, construction and installation of equipment was completed. The water line from the spring to the camp was buried 4 feet to prevent freezing. The brow over the portal of the adit was unsafe. This material was removed and 5 sets of timber installed. The 12-lb. rail was removed from the adit and replaced with 20-lb. rail. A switch and track was installed to the compressor house so that the batteries for the electric locomotive can be brought to the battery charger. Flood lights are being installed outside the portal of the adit in preparation for night shift operation.

Work of advancing the adit started on July 1, 1952. Total advance to July 8, inclusive is 34 feet or an average of 5.6 feet per round: Twenty-one holes are used, and blasted with ordinary fuse and caps. Only one shift is being worked daily. Another crew will work night shift on crosscutting when the first 200 feet of main adit is completed.

All work to date has been conducted in an efficient and workman like manner and every effort is being made to make this a low cost project.

The adit is being driven in the shale immediately below the tungsten bearing Wheeler (Combined Metals or CM bed) limestone bed. Several cross fractures encountered to date contain traces of scheelite.

The Mt. Wheeler Mines, Corp. are contemplating shipping ore from No. 1 Shear Zone to a stockpile at Caselton, near Pioche, August 1, 1952. The Combined Metals Reduction Co. plan on erecting a custom tungsten ore concentrating plant at Caselton which may be in operation Jan. 1, 1953.

No. 1 Shear Zone workings are situated several hundred feet north of the Main Adit and are at a higher elevation. The Corporation will request that they be allowed to use air from the project compressor and the charges for the air based on the tonnage produced from separate operations. The charges to be prorated would be the compressor-man, compressor rental, fuel, oil and other lubricants.

The equipment used on the two projects are so different that there should be no question or doubt as to the validity of the charges. The following is a partial list of equipment on both projects:

No. 1 Shear Zone	Pob Tunnel (No. 3 Shear Zone)
12 lb. rail	20 lb. rail
1" hex. steel	1-1/8" round steel
Jackhammers on shell	Automatic 3" drifters
Hand mucking	Machine mucking
1" and 2" pipe (used)	2" by 3" pipe (new)
Timken bits	Liddicoat bits

Since the new timber sets have been installed at the portal, a new measuring point for adit advance was established on the open set. The starting point of the contract (face of old adit) is 108 feet from the open set or 24 feet beyond #2 spad which is 84 feet from open set.

Russell R. Trengove

Russell R. Trengove

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1952 Docket No. DMEA 2082 Contract No. Idm-E248
Operator's Name Mt. Wheeler Mines, Inc. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah

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.		)				350	
Crosscutting	Ft.		)	13,615.54			1,000	
Raising	Ft.		)				150	
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS				13,615.54			TOTAL COSTS AUTHORIZED BY CONTRACT	
Operating Equipment Purchased				2,526.19				
Initial Rehabilitation and Repairs				1,058.43				
New Buildings, Improvements, etc.				8,379.56				
TOTAL COSTS				25,579.72				75,476.00

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 July 15, 1952 Operator MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

(Instructions on reverse)

REMARKS: Driving Pole Tunnel started on June 30, 1952, on one shift per day basis. Second shift will be added about July 15, 1952. Footage will be reported in July, 1952, Report. Average expected advance 11.0' per day on two shift basis.

(For Government use only)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 4 1952

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

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 June, 1952 Docket No. DMEA 2082 Contract No. Idm-B248
Operator's Name Mt. Wheeler Mines, Inc. Minerals Tungsten
Address P. O. Box 150, Salt Lake City 10, Utah
Contract Amount, $ 75,476.00 Government Participation: 75 % Amount, $ 56,607.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Mining~~ Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
Raising						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe	75.99	1,724.00	1,799.99	75.99	1724.00	1799.99
Track	504.06	1,813.62	2,317.68	504.06	1813.62	2317.68
Steel and bits		1,147.23	1,147.23		1147.23	1147.23
Fuel and lube	827.81	23.72	851.53	827.81	23.72	851.53
(4) Operating Equipment:						
Rental	2,212.27	2,544.54	4,756.81	2212.27	2,444.54	4,656.81
Purchase Misc. Tools	329.38	2,196.81	2,526.19	329.38	2,196.81	2,526.19
Depreciation						
(5) Initial Rehabilitation and Repairs	997.89	60.54	~~1,058.43~~	997.89	60.54	1058.43
(6) New Bldgs., Improvements, etc.	2,222.65	6,156.91	~~8,379.56~~	2,222.65	6,156.91	8,379.56
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	141.41	230.84	~~372.25~~ ✓	141.41	230.84	372.25
Liability Insurance						
Workmen's Comp.	345.61	564.29	~~909.90~~ ✓	345.61	564.29	909.90
Administrative	256.49	340.32	~~596.81~~ ✓	256.49	340.32	596.81
(8) Contingencies (specify):						
Freight - Supplies	58.02	384.88	442.90	58.02	384.88	442.90
Freight - Equipment		270.44	270.44		270.44	270.44
Truck Rent - Haul.	50.00	100.00	~~150.00~~ ✓	50.00	100.00	150.00
TOTALS	8,021.58	17,558.14	25,579.72	8,021.58	17,458.14	25,479.72

I certify that the above bill is correct and just and that payment therefor has not been received.
Date July 15, 1952 *Payee MT. WHEELER MINES, INC.

Per James D. Williams Title President

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

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

(Instructions on reverse)

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

$ 6016.18

Lloyd L. Nervell
Signature Authorized Certifying Officer
(Authorized Certifying Officer)

Date JUL 23 1952 Vou. No. SF-DMEA-2

(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. [illegible] in accordance with the terms of the contract.

Signature R. C. Johnson Title Geol. Mining Eng. Date July 22, 1952.
R. C. Johnson Region III

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team, Region III Date July 28, 1952

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

MT. WHEELER MINES, INC.
P. O. BOX 150
SALT LAKE CITY 10, UTAH

June 20, 1952

Mr. A. C. Johnson, Chief
Mining Division, Region III
United States Bureau of Mines
P.O. Box 1551
Reno, Nevada

Re: Mt. Wheeler Mines, Inc.
DMEA-2082; Idm-E 248
MF-104, April - May, 1952

Dear Mr. Johnson:

Attached are the original and four copies of our MF-104 statement for the last half of April and full month of May, 1952. Also included are the following:

1. Narrative Report of Progress
2. Certified copy of the Project Payroll
3. Certified copies of Paid Invoices

Very truly yours,

MT. WHEELER MINES, INC.
By

James D. Williams
President

JDW-K

Enc.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 4 1952

NARRATIVE REPORT
Months of April and May, 1952
To Accompany MF-104

8/7/52

Mt. Wheeler Mines, Inc.
Contract Idm-E 248; DMEA-2082
Contract Amount - $75,476.00
Government Participation- 75%

The period covered by this report is from April 14, 1952, to May 31, 1952, inclusive, a total of seven calendar weeks, during which the full 42 shifts were worked. Work accomplished was as follows:

1. Clearing Road of Snow

By the middle of April it became evident that the worst of the winter season was over and that the road could be cleared of snow with little danger of drifting over. This was completed during the week of April 14-19.

2. Buildings

The external structure of the compressor house was completed and the concrete foundations for the compressor, generator and motor-generator set were poured. Ground was leveled for the site to which the blacksmith shop will be moved.

3. Equipment and Supplies

(a) Equipment
The electric trammer, charging set, mucking machine, mine drills and accessory equipment were delivered to the Pole tunnel.

(b) Supplies
The supplies reported in the February report were trucked from the bottom of Pole canyon to the Pole tunnel. Additional supplies such as pipe fittings, mine ties, drill steel, lubricants, drill bits, hoses, etc., were delivered to the Pole tunnel The air receiver and 10 mine cars were also delivered on the dump.

4. Water System

At the close of May preparations were completed to commence laying the water line from the spring in North Pole canyon. All pipe had been hauled to the job and arrangements made for the use of the bulldozer.

5. Forecast

It should take no more than two weeks to complete the installation of equipment in the compressor house, lay 20# rail in the tunnel and on the dump, hook up the mine air and water lines and complete the water supply line. Tunnel driving should be started by June 16 on a two shift per day basis.

MF-1
(August 1951)

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

D.F. DMA-2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 248

gd
8/7/52

Name of Operator M. WHELAN MINES, INC.
Docket No. DMA 2082 - Tungsten
Total Contract Amount $ 75,476.00
Government Participation: 75 % Amount, $ 56,607.00
Distribution of Expenditures for Month of April - May, 1952

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

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

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

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 4 1952

CERTIFICATION

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

M. WHELAN MINES, INC.
(Name of Company)

By James R. Williams
(Signature of Authorized Official)

June 20, 1952
(Date)

President
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings	237.59	847.07	1,084.66	237.59	847.07	1084.66
Camp Bldg. 177.05						
Blacksmith 60.54						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]	2,181.73	-	2,181.73	2,181.73		2,181.73
2-Drifters 1,750.00						
Blower 137.63						
Misc. Tools 294.10						
2,181.73						
(b) Rented[2]	1,412.27	1,132.27	2,544.54	1,412.27	1032.27	2,444.54
Trommer 475.00						
Generator 172.27						
Bucker 295.00						
Compressor 470.00						
1,412.27						
(c) Furnished by operator						
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

16—64068-3

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	3,215.80	914.10	4,129.90	3215.80	914.10	4129.90
5. Supervision	750.00	250.00	1,000.00	750.00	250.00	1,000.00
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other	1,503.72	3,222.82	4,726.54	1,503.72	3222.82	4726.54
7. Power						
8. Transportation	445.38	309.94	755.32	445.38	309.94	755.32
9. Insurance						
(a) Fire						
(b) Public Liability						
(c) Workmen's Compensation	436.24	128.05	564.29	436.24	128.05	564.29
(d) Payroll taxes	178.45	52.39	230.84	178.45	52.39	230.84
10. Contract Work						
11. Other (specify)						
Miscellaneous	205.50	134.82	340.32	205.50	134.82	340.82
Administrative 105.50						
Accounting 100.00						
205.50						
Total	10,566.68	6,991.46	17,558.14	10,566.68	6,891.46	17,458.14
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

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

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

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Amount approved for payment $ 7,925.01
Remarks

16—64068-3

Lloyd L. Rowell
Authorized Certifying Officer

JUL 23 1952

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF April-May, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting		3,594.00	1,503.72	1,265.57	6,363.29	Ft.	None	None	None	1500.0
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	3,965.80				3,965.80					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Buildings			237.59		237.59					
Totals	3,965.80	3,594.00	1,741.31	1,265.57	10,566.68					

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

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

2/ Equipment:

Purchased	$2,181.73
Rented	1,412.27
	$3,594.00

3/Other:

Transportation	$ 445.38
Comp. Ins.	436.24
Payroll Taxes	178.45
Miscellaneous	205.50
	$1,265.57

A. C. Johnson, Chief, Mining Div., Reg. III June 6, 1952

Russell R. Trengove, Mining Engineer, Bureau of Mines, Reg. III

Mt. Wheeler Mines, Inc. (tungsten) Contract Idm-R248

This property was visited on June 6, 1952. There were five men working and also one bulldozer operator. The bulldozer is being used to level the ground for building construction. Eight days of bulldozer work completed 4.4 miles of road comprising 38 switchbacks. The elevation of the portal of the adit is 7,800 feet.

The property lies 47 miles southeast of Ely, Nev. It can be reached by following U. S. Highway 93 south from Ely a distance of 34 miles to the left turnout to the Swallow and Kirby ranches. A gravel road is followed east and southeast a distance of 8.6 miles to a left turnout to Pole Canyon. The canyon is followed on a 10% upgrade a distance of 4.4 miles to the portal. The 4.4 miles of road was built with White Pine County equipment.

Equipment on the property is as follows:

1 Joy, 315 c.f.m. Diesel compressor (bought new)
It was mounted on wheels but is now on a concrete foundation. Cost $9,000 plus
1 Kohler, 10 k.w., 225 phase power plant (new) Cost $2,200
1 Battery charger for electric locomotive (new)
1 Control panel (new)
1 Air receiver, 4 foot by 10 foot (used)
11 Mine cars (used) - one to be returned
1 Rocket shovel, 12B Bimco (new)
1 Manchas electric mule, type M9 (new)
2 Batteries for Manchas electric mule (new)
1 Water tank, 2½ feet by 9 feet (used) This will be buried to prevent freezing.
1 Willys jeep (rented)
1 Bulldozer, TD-9, International (rented at $8 per hour, including operator)
1 Axivane fan, 4700 c.f.m., Model 1-21, Joy Mfg. Co. (using 12 inch vent)
2 Drifters, Thor, 48 shell
1 Air column bar
Other supplies and equipment on hand are: 20-pound rail, 1-, 2-, and 3-inch pipe, 1½ tons dynamite, some fuse and caps, Liddicoat knock-off bits, and miscellaneous tools.

New buildings at the Portal are:
1 16 feet by 24 feet compressor building with concrete foundation and concrete floor, and aluminum roof and siding. Interior and ceiling lined with celotex.

1 14 feet by 16 feet frame building sheathed with tarpaper. This will be moved and set on a concrete foundation. It is being used as a warehouse.

At the Lower Camp (10 switchbacks below the portal) are the following:

1 28 feet by 38 feet Mess hall with quarters for cook and wife and living room for employees
1 28 feet by 36 feet dormitory comprising 6 bedrooms, living room and washroom with two showers
1 22 feet by 28 feet guest house (incomplete)
1 6 feet by 7 feet power plant house containing a new 5 k.w. Kohler plant (new)
1 Water tank, 2,200 gallon
1 Fuel oil tank, 1,000 gallon

All buildings are on a concrete foundation and have aluminum roofs and siding and interior walls and ceilings are lined with celotex. The equipment in the buildings is ultra-modern.

Water is obtained from a spring about 50 feet below the portal. Work on burying the water line is incomplete.

The face of the adit is 24 feet from the nearest survey point at the first crosscut to the right. The portal will be made safe by blasting and timbering. The 12-pound rail in the adit will be replaced by 20-pound rail. The water tank has to be buried and necessary piping to water tank and air receiver. A track has to be laid to the battery charger in the compressor. This work is expected to be completed during the week of June 9, and then contract work will start advancing the face of the adit.

The ore occurs at the intersections of fissures and cross fractures which occur to date at about 10 feet intervals.

Russell R. Trengove

Russell R. Trengove

July 25, 1952

Mr. James D. Williams, President
Mt. Wheeler Mines, Incorporated
P. O. Box 150
Salt Lake City 10, Utah

Reference: Contract No. Idm-E248
Docket No. DMEA 2002-Tungsten

My dear Mr. Williams:

In processing your claim Form MF-104 for the month of February, 1952, it was found necessary to make reductions as follows:

Equipment Rental claimed	$1,132.27
Disallowed:	
Rental of jeep	100.00
Total Rental Allowed	$1,032.27

The disallowance is made because the item is owned by your company and, therefore, should be covered on a depreciation basis rather than a direct rental charge.

Sincerely yours,

Lloyd L. Norvell
Authorized Certifying Officer

AUG 4 1952

Feb
MF-104

ME-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.
D-7. DMEA - 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. Idm-E 248

8/7/52

Name of Operator MT. WHEELER MINES, INC.
Docket No. DMA 2082 - Tungsten
Total Contract Amount $75,476.00
Government Participation: 75 % Amount, $56,607.00
Distribution of Expenditures for Month of February, 1952

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

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

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

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

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

JUN 13 1952

CERTIFICATION

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

MT. WHEELER MINES, INC.
(Name of Company)

By James R. Williams
(Signature of Authorized Official)

May 20, 1952
(Date)

President
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings	847.07			847.07		
Materials $782.83						
Freight 64.24						
$847.07						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]	1,132.27			1032.27		
Compressor $470.00						
Generator 172.27						
Jeep 100.00						
Bulldozer 390.00						
(c) Furnished by	$1,132.27					
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

Mt. Wheeler Mines, Inc.

DMEA Project Payroll - Month of February, 1952

TEMEA - 2082 - Tungsten

Idm - E 248

P.R. No.	Employee	Classif.	S.S. No.	Total Shifts	Regular	O.T.	Gross Earnings	O.A.B.	Unemp. Ins.	With. Tax	Total Deductions	Net amt. paid
3	Jeppson, Chas. E.	Laborer	529-14-6014	15	158 40	10.56 59 40	11.25 33 3/4 217 80	3 27		17 50	20 77	197 03
4	Jeppson, Arnold	"	528-12-1729	15	158 40	" 59 40	217 80	3 27	3% of payroll	7 20	10 47	207 33
	Poller, Harry S.	Carpenter	393-20-5973	15	174 00	11.40 65 25	33 3/4 239 25	3 59		24 35	27 94	211 31
	Jeppson, Orin E	"	528-12-1730	15	174 00	65 25	239 25	3 59		29 25	32 84	206 41
	J. D. Williams	Supt.	109-10-3715	15	250 00	—	250 00	3 75		39 90	43 65	206 35
				75	914 80	249 30	1164 10	17 47	34 92	118 20	135 67	1028 43

Item 9(c) MF-104 Compensation Insurance = (1164.10)(.110) = $128 05

✓ 9(d) ✓ ✓ Payroll taxes (17.47 + 34.92) = 52 39

180 44

Note:

Labor shown above consisted of two laborers and two carpenters whose work was dedicated to preparation for the buildings allowed by the contract, i.e., laying out foundations, hauling and cutting lumber, etc. $914.10 of this payroll will be charged against preparation and buildings, and will enter into the total allowable cost for the two buildings, less site preparation, in the total amount of $2,750.00, including all necessary labor, materials and supplies.

James D. Williams

MONTHLY SUMMARY COST STATEMENT—Unpaid

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	914.10			914.10		
5. Supervision	250.00			250.00		
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other	3,222.82			3,222.82		
7. Power						
8. Transportation	309.94			309.94		
9. Insurance						
(a) Fire						
(b) Public Liability						
(c) Workmen's Compensation	128.05			128.05		
(d) Payroll taxes	52.39			52.39		
10. Contract Work						
11. Other (specify)						
Miscellaneous	134.82			134.82		
Administration $34.82		67.41				
Accounting 100.00						
134.82						
Total	6,991.46	-0-		6991.46		
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

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

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

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by A. C. Johnson
Amount approved for payment $ 5168.59
Remarks $100.00 disallowed - Jeep Rental Jeep is Company owned and should be on depreciation basis.

Lloyd L. Norvell
Authorized Certifying Officer

16—64068-3

JUL 23 1952

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF February, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting		1,132.27	3,222.82	625.20	4,980.29	Ft.	None	-	-	1,500.0
Crosscutting										
Raising										
Shafts										
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation	1,164.10				1,164.10					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Buildings			847.07		847.07					
Totals	1,164.10	1,132.27	4,069.89	625.20	6,991.46					

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

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

MT. WHEELER MINES, INC.

P. O. BOX 150

SALT LAKE CITY 10, UTAH

March 15, 1952

Mr. A. C. Johnson, Chief
Mining Division, Region III
United States Bureau of Mines
P.O. Box 1551
Reno, Nevada

Re: Mt. Wheeler Mines, Inc.
DMEA-2082; Idm-E-248
MF-104, February, 1952

Dear Mr. Johnson:

Attached are four copies of MF-104 statement for the month of February, 1952. Also included are the following:

1. Narrative Report of Progress

2. A Pro forma Copy of Payroll

3. Copies of Paid Invoices and Voucher Advice

Very truly yours,

MT. WHEELER MINES, INC.
By

James D. Williams
President

JDW-K

Enc.

NARRATIVE REPORT
Month of February, 1952
To Accompany MF-104

Mt. Wheeler Mines, Inc.
Contract Idm-E-248, DMEA-2082
Contract Amount $75,476.00
Government Participation 75%

The period covered by this report is from February 1, 1952, to March 1, 1952, inclusive. Immediately upon receipt of Contract Idm-E-248, preparation was commenced in accordance with Exhibit "A". The mine road from Spring Valley, through Camp, and up to the Pole Tunnel was cleared of snow. Materials, supplies and equipment were forwarded from Salt Lake and the initial crew assembled for preliminary operations. Continued snow storms, which to date have deposited approximately eight feet of new snow at the Pole Tunnel, plus high winds which caused heavy drifting, hampered operations very much. As the direct result of this, very little was accomplished during the month. The following is a brief summary of progress -

1. Buildings

Materials for the compressor house were delivered on the job and the foundation work started. Heavy snows at the Pole Tunnel stopped further work.

2. Equipment and Supplies

(a) Equipment

The 10 KW, 220 V, 3 phase, 60 cycle Kohler generating unit and the 315 cu. ft. diesel compressor were delivered to the Pole Tunnel.

(b) Supplies

The following supplies were delivered on the job:

1. 20,108 lbs. 20# rail
2. 190 pair rail splices
3. 400# track spikes
4. 200# track bolts
5. 1008 ft. 3" air line
6. 504 ft. 2" air line
7. 3699 ft. 1" water line
   (1 1/2" not available; 1" substituted)
8. 2200 gal. diesel storage tank
9. 550 gal. gasoline storage tank
10. Miscellaneous tools

3. Water System

The 2200 gal. water storage tank was delivered on the job and set on foundations. Trenching was started for the necessary connections, but this work was also stopped by snow.

4. Forecast

Continued storms have deposited an abnormal depth of snow in the Spring Valley-Pole Canyon area. Reports of the U.S. Weather Bureau indicate that more winter is yet on the way. Under these conditions little, if anything, can be accomplished in the way of outside preparation for the underground exploration. Therefore, if weather conditions do not materially improve, we plan upon suspending all work until such time as the road may be cleared without danger of closing in again either from new snowfall or drifting, and surface preparation may be completed without interruption.

MT. WHEELER MINES, INC. DMEA-2082; Idm-E248

CLASSIFICATION OF ACCOUNTS FOR DISTRIBUTION OF EXPENDITURES
DMEA EXPLORATION PROJECT

Estimated Cost of Project DMEA-2082
Idm-E248

	Unit	Total	Cum.
1. Fixtures and Improvements			
(a) 16' x 24' Building		2,000.00	
(b) Trackage			
1. 11 tons 20# rail 22,000 # 20,108 # Feb	2,013.00		
2. 190 pr. rail splices	228.00		
3. 550 4" x 6" x 60" ties	550.00		
4. 500# track spikes 400 #	75.00		
5. 200# track bolts and nuts 200 #	40.00		
6. 7 double throw switches	875.00		
7. Freight on above	342.00		
	4,123.00	4,123.00	
(c) Air, Water, Vent. Lines, Etc.			
1. 1,200 ft. 3" air line 1008'	840.00		
2. 500 ft. 2" air line 504'	175.00		
3. 1,700 ft. 1" water line } 3699'	272.00		
4. 2,000 ft. 1-1/2" water line }	540.00		
5. 1,200 ft. 18" vent. tube	1,800.00		
6. 4' x 10' air receiver	250.00		
7. Fittings and valves	150.00		
8. Freight on above	220.00		
	4,247.00	4,247.00	
(d) Bulldozer Rental			
1. Building sites	200.00		
2. Pipe line trenches	600.00		
3. Clearing road of snow	1,200.00		
	2,000.00	2,000.00	
Total Fixtures and Improvements		12,370.00	12,370.00
2. Operating Equipment to be Rented			
(a) Diesel compresser @ $470/Mo.	3,290.00		
(b) Eimco mucking machine @ $295/Mo.	2,065.00		
(c) Electric generator @ $250/Mo.	1,750.00		
(d) Willys "Jeep" @ $100/Mo.	700.00		
(e) Battery trammer @ $475/Mo.	3,325.00		
(f) Mine cars @			
	11,130.00	11,130.00	
Total Equipment Rental			11,130.00

	Unit	Total	Cum.
3. Equipment to be Purchased			
(a) Fuel storage tank 2200 diesel 550 gasu	500.00		
(b) 3 blower fans	1,200.00		
(c) 2 - 3" drifters and acc.	1,750.00		
(d) Miscellaneous tools	500.00		
	3,950.00	3,950.00	
Total Equipment Purchases			3,950.00
4. Labor and Supervision			
(a) 2 outside men @ $870/Mo.	5,510.00		
(b) 1 cook @ $300/Mo.	2,100.00		
(c) 1 foreman @ $400/Mo.	2,800.00		
(d) 1 superintendent @ $500/Mo.	3,500.00		
(e) Contract - 1000 ft. Pole Adit	13,500.00		
(f) Contract 350 ft. laterals	3,850.00		
(g) Contract 150 ft. raises	1,650.00		
(h) Comp. Ins. and P.R. taxes	3,291.00		
	36,201.00	36,201.00	
Total Labor and Supervision			36,201.00
5. Rehabilitation and Repair			
(a) Move and rebuild blacksmith shop		750.00	750.00
6. Materials and Supplies			
(a) Powder, fuse and caps	3,000.00		
(b) Steel and bits	1,375.00		
(c) Fuel and lubricants	3,200.00		
(d) Mine timber	1,500.00		
(e) Miscellaneous expense	2,000.00		
	11,075.00	11,075.00	
Total Materials and Supplies			11,075.00
TOTAL ESTIMATED COST OF PROJECT AS ALLOWED BY CONTRACT Idm-E248			$75,476.00

FORM 2-57
PHONE 3-2791

121 WEST 2ND SOUTH

THE MINE AND SMELTER SUPPLY CO.

121 WEST SECOND SOUTH STREET
SALT LAKE CITY 1, UTAH

DATE SHIPPED 2-13-52 2-8-52
INVOICE NO. 24487
VIA YOUNG TRUCK
TERMS 2-10-30
F. O. B. SL.
CUST. ORDER NO.

SHIPPED TO
SAME
WHITE PINE COUNTY, NEVADA

SOLD TO
MT. WHEELER MINES INC.
BOX 150
CITY

FOR CUSTOMER S USE ONLY	
REGISTER NO	VOUCHER NO
F. O. B. CHECKED	
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
TRANSPORTATION	
FREIGHT BILL NO	AMOUNT
MATERIAL RECEIVED	
DATE 19	SIGNATURE / TITLE
SATISFACTORY AND APPROVED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

10,000 LB (5 TONS) 30# RAIL	contract 20#	7.80 CWT	780.00
190 PRS 20# RAIL SPLICES		.52 PR	98.80
400 LB 1/2 X 3 1/2 TRACK SPIKES		11.40 CWT	45.60
200 LB 1/2 X 2 TRACK BOLTS		16.65 CWT	33.30
504 FT 2" BLACK PIPE		34.30 C'	172.87
3699 FT 1" DITTO		16.05 C'	593.69
1008 FT 3" DITTO		70.45 C'	710.14
			2434.40

Paid 3/10/52
Voucher # 298
Check # 286
J.

MT. WHEELER MINES, INC.
Roma Project
Contract Idm-E 248

Items: 1-b-1 Trackage 780.00
1-b-2 Splices 98.80
1-b-4 track spikes 45.60
1-b-5 " bolts 33.30
1-C-1 3" line 710.14
1-C-2 2" " 172.87
1-C-3&4 1" " 593.69

NOTE: SALES TAX: REELS, CARBOYS, CONTAINERS, TRANSPORTATION CHARGES ARE NET.
PLEASE DEDUCT BEFORE COMPUTING CASH DISCOUNT
IN ORDER TO SAVE FREIGHT, SECURE OUR SHIPPING INSTRUCTIONS BEFORE RETURNING REELS.

PLEASE USE OUR INVOICE NO. AS REFERENCE WHEN WRITING ABOUT THIS ORDER.

NOTICE
OUR RESPONSIBILITY FOR SHIPMENTS CEASES WHEN WE GET CLEAR RECEIPT FROM TRANSPORTATION COMPANY. CLAIMS MUST BE MADE WITHIN FIVE DAYS AFTER RECEIPT OF GOODS. ALL MERCHANDISE RETURNED WILL BE RECEIVED SUBJECT TO OUR ACCEPTANCE AND IF CREDITED, 10 PER CENT AND TRANSPORTATION CHARGES WILL BE DEDUCTED FROM INVOICE PRICE.

FORM 26 X B

WHOLESALE DISTRIBUTORS OF AMERICA'S LEADING LINES

SALT LAKE CITY, UTAH BOISE, IDAHO GRAND JUNCTION, COLO.

The Salt Lake Hardware Co.

SALT LAKE CITY 10, UTAH - P. O BOX 510

ORDER PLACED BY

YOUR ORDER NO.

YOUR REQ'N. NO.

INVOICE DATED FEB 14 '52

OUR INVOICE NO. 519267

SALESMAN K PRICE

DISCOUNT TERMS 2/10

NOW SHIPPED

SOLD TO MOUNT WHEELER MINE CO
P O BOX 150
CITY 10

12 869

ALL MERCHANDISE SOLD F. O. B. ORIGIN OF SHIPMENT UNLESS OTHERWISE SPECIFICALLY STATED.

F. O. B.

SHIPPED TO
SAME UNLESS OTHERWISE NOTED.

QUANTITY AND DESCRIPTION	LIST AND DISCOUNT	NET	EXTENSION	TOTAL
JB				
10108 LBS #20 STEEL MINE RAIL		$.7.80¢LB	788 42	788 42
5 ton				

Paid 3/10/52
Voucher # 303
Check # 291
J.

MT. WHEELER MINES, INC.
Bma Project
Contract Tdm-6 248
Item 1-b-1 Tonnage 788.42
J.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
NO DISCOUNT ALLOWED ON FREIGHT OR POSTAGE — SEE OTHER SIDE FOR CONDITIONS MADE A PART OF ABOVE SALE.

ITEMS	
Accounting for the month of February, 1952	100.00

Mt. Wheeler Mines, Inc.

CHECK NO. 298

VOUCHER NO. 310

SALT LAKE CITY, UTAH, March 10th 1952

PAY $100.00

TO THE ORDER OF

O.F.Burton

City

MT. WHEELER MINES, INC.

BY _____ AUTHORIZED SIGNATURE

COUNTERSIGNED

BY _____ AUTHORIZED SIGNATURE

DISTRIBUTION OF ACCOUNTS

CONTROL ACCOUNTS	DR.	CR.	SUBSIDIARY ACCOUNTS	DR.	CR.
			6 e MT. WHEELER MINES, INC. EMEA Project Job E-248 6 (e)		

1/31/52 mileage 5461

Form 1058

MT. WHEELER MINES, INC.
~~COMBINED METALS REDUCTION COMPANY~~

PERSONAL AUTOMOBILE MILEAGE STATEMENT

Employee _____ Period Ended February 15, 1952

First Half of Month

Date	From Place	To Place	Miles		Amount	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12	Milford Wheeler	Wheeler Ely	140 45	.10 .06	14 2	00 70
13	Ely Ely	Ely Salt Lake	27 250	.06 .06	1 15	62 00
14						
15						
Totals			462		33	32
		Add last 1/2 mo.			1	50
					$ 34.82	

Paid 3/10/52
Voucher # 307
Check # 295
J.

Signed James B. Williams

Approved _____

Accounting Distribution:

MT. WHEELER MINES, INC.
TMBA Project
Idm - E 248
6 (e)
Jow

Please Mail promptly on first of each month.

(Over)

OFFICE & WAREHOUSES
SALT LAKE CITY, UTAH
POCATELLO, IDAHO
BOISE, IDAHO
TWIN FALLS, IDAHO
RENO, NEVADA

MORRISON-MERRILL CO.

"BUILDING MATERIALS"
P. O. BOX 1530
SALT LAKE CITY 10, UTAH

THE MARK OF M&M TIMBER, ROCK, PAPER PRODUCTS FOR BUILDING PURPOSES RELIABILITY

SHIPPING DATE 2/8/52
INVOICE NO. 5417 NIMMO
SHIPPED TO SHOSHONE WHITE PINE COUNTY NEVADA
SHIPPED VIA H L YOUNG TRUCK
YOUR ORDER NO. J W
F. O. B. SLC
TERMS 2% 10THPROX DUE NET 30TH PROX.

Sold to MT. WHEELER MINES INC.
Address BOX 150
CITY 10

INTEREST AT LEGAL RATE ON PAST DUE ACCOUNTS

188 PCS.	2X4-8 #1 COM FIR INCL 15/20% #2 COM	1003	114 50 M	114 84 ✓
42 PCS.	2X4-18 DO	504	116 00 M	58 46 ✓
63 PCS.	2X4-16 "	1008	114 50 M	115 42
18 PCS.	1X8-10 #3 COM PINE S4S	120		
35 PCS.	1X8-12 DO	280		
25 PCS.	1X8-14 "	233		
35 PCS.	1X8-16 "	373		
		1006	118 50 M	119 21 ✓
2 KEGS	8 D COM NAILS		9 62 CWT	19 24 ✓
40 SHTS	10 FT 26 G CORR GALV. IRON 8 2/3		10 70 SQ.	92 73 ✓
3 PCS.	10 FT. 2" ROLL PLAIN GALV. RIDGE ROLL 30		9 34 EL'	2 95 ✓
2 ONLY	#5 GLOBE FINIALS FOR 2" RL.		5 16 DZ.	.86 ✓
11 LBS.	1¾" LEAD HEAD NAILS		.30 LB.	3 30 ✓
				527 01 ✓

Paid 3/10/52
Voucher # 300
Check # 288
J

MT. WHEELER MINES, INC.
Materials for Mine Stope
16 x 24 Bldg Idm. E 248
1(a)
John

FORM 575 ②

CLAIMS ON ANY ACCOUNT MUST BE MADE PROMPTLY ON RECEIPT OF GOODS.

OFFICE & WAREHOUSES
SALT LAKE CITY, UTAH
POCATELLO, IDAHO
BOISE, IDAHO
TWIN FALLS, IDAHO
RENO, NEVADA

MORRISON-MERRILL & CO.

"BUILDING MATERIALS"
P. O. BOX 1500
SALT LAKE CITY 10, UTAH

THE MARK OF M&M TIMBER, PRODUCTS PRODUCTS FOR BUILDING PURPOSES RELIABILITY

SHIPPING DATE 2/8/52
INVOICE NO. 5418 NIMMO
SHIPPED TO SHOSHONE WHITE PINE COUNTRY -NEVADA
SHIPPED VIA H.L.YOUNG TRUCK
YOUR ORDER NO. JW
F. O. B. SLC
TERMS 2 % 10TH PROX DUE NET 30TH PROX

Sold to
Address

MT WHEELER MINES INC
P O BOX 150
CITY

INTEREST AT LEGAL RATE ON PAST DUE ACCOUNTS

10	ROLLS 15# P & B ASPHALT RFG FELT	324'	2 60 RL	26 00
28	Pcs 4X9-½" CELOTEX INSULATING ASPHALT SHEATHING	1008'	59 80 SQ'	60 28
32	" 4X8-½" #11-CELOTEX BLDG BOARD	1024'	56 20 "	57 55
1	ONLY 8-0X7-0-1⅜ #6-1444 CURTIS OVERMATIC GARAGE DOOR UNIT COMPLETE WITH HARDWARE		52 80 EA	52 80
4½	PAIR 3½"-#241-4 D B BUTTS		.54 PR	2 43
3	ONLY #1000-4 INSIDE DOOR SETS		1 44 EA	4 32
				203 38

Paid 3/10/52
Voucher # 300
Check # 288
J.

MT. WHEELER MINES, INC.
Materials for Dma Items
16 x 24 Bldg I dm-E 248
1(a)
Jow

FORM 575 ®

CLAIMS ON ANY ACCOUNT MUST BE MADE PROMPTLY ON RECEIPT OF GOODS.

OFFICE & WAREHOUSES
SALT LAKE CITY, UTAH
POCATELLO, IDAHO
BOISE, IDAHO
TWIN FALLS, IDAHO
RENO, NEVADA

MORRISON-MERRILL & CO.

"BUILDING MATERIALS"
P. O. BOX 1530
SALT LAKE CITY 10, UTAH

SHIPPING DATE 2-8-52
INVOICE NO. 5416
SHIPPED TO SHOSHONE WHITE PINE COUNTRY NEVADA MARTIN
SHIPPED VIA H L YOUNG TRUCK
YOUR ORDER NO. J W
F. O. B. SLC
TERMS 2%10THPROX DUE NET 30THPROX

Sold to
Address

MT. WHEELER MINES
P OBOX 150
CITY

INTEREST AT LEGAL RATE ON PAST DUE ACCOUNTS

3 DOORS	3-0 X 6-8 1 3/4 21 4 GLAZED	16 88 EA-	50 64
		CRATING	1 80
			52 44

Pd. 3/10/52
Voucher # 300
Check # 288
J.

MT. WHEELER MINES, INC.
Materials for Dmr Items
1 (a) 16 x 24 bldg Idm-E248
J. Doe

FORM 975

CLAIMS ON ANY ACCOUNT MUST BE MADE PROMPTLY ON RECEIPT OF GOODS.

S. MENT

SALT LAKE CITY 4, UTAH, February 11, 1952

M Mount Wheeler Mines, Ind.

P. O. Box 150 - - - City

IN ACCOUNT WITH

H. L. YOUNG & SONS, Inc.

Trucking and Rigging of Machinery

TELEPHONES 3-5678—3-1144 542 WEST 6TH SOUTH

Hauling load equipment from Salt Lake City, Utah
to Shoshone, Nevada.
37,206 lbs. - - - 292 miles @ .04¢ per ton mi. $217.28
Federal tax 3%. 6.52
$223.80
150.38
374.18

1 a 64.54 " building
1 b7 159.56 " freight
1 c8 50.38 " freight

Paid 3/10/52
Voucher # 302
Check # 290
J.

MT. WHEELER MINES, INC.
Freight on Power station
Tonn E-248

ST MENT

SALT LAKE CITY 4, UTAH, February 11, 1952

M Mount Wheeler Mines, Inc.

P. O. Box 150 - - - City

IN ACCOUNT WITH

H. L. YOUNG & SONS, Inc.

Trucking and Rigging of Machinery

TELEPHONES 3-5678—3-1144 542 WEST 6TH SOUTH

Hauling load equipment from Salt Lake City,
Utah to Shoshone, Nevada.
25,000 lbs. - - - 292 miles @ .04¢ per ton mi. . .$146.00
Federal tax 3%. . . 4.38
$150.38

Paid 3/14/52
Voucher #312
Check # 300
J.

MT. WHEELER MINES, INC.
Freight on Doma Items
Idm-E248
JOW

INVOICE

CORRECTED INVOICE

09316

Foulger EQUIPMENT CO.

ENGINEERED SALES AND SERVICE

1361 SOUTH 2nd WEST SALT LAKE CITY 8, UTAH
PHONE 6-4313 6-3031

Mailing Address
P. O. BOX 87

Date Feb. 1, 1952

Sold To
Mt. Wheeler Mines, Inc.
P. O. Box 150
Salt Lake City, Utah

Your Order No. Rental Contract
Shipped Via Ringsby & HL Young
On 11/23/51
Terms Net
Salesman Vincent

RENTAL

1 WK 80 Joy, Model 215 Air Compressor Diesel Engine Driven Mounted on four 7:00 x 20 - 8 Ply pneumatic tires, complete with regular equipment. Serial No. 44280, Engine Serial No. 5V9749, Engine Model, Caterpillar D-318 $470.00

Tax exempt - shipped to Shoshone, Nevada

Rental period from 2/1/52 to 2/29/52 Incl.

Paid 3/3/52
Voucher # 295
Check # 283
JPW

MT. WHEELER MINES, INC.
DMGA-2082; Idm-E248
Item 2(a) compressor rental
JPW

No goods will be accepted for credit unless returned with our permission. Transportation charges must be prepaid. Date of our invoice must accompany goods. A 10% charge to cover handling will be made on all returned goods unless returned on account of being defective or error on our part. Goods made to order are unreturnable. No claims allowed after 15 days from date of invoice. Interest charged on all past due accounts.

INVOICE

CORRECTED INVOICE

09317

Foulger EQUIPMENT CO.

ENGINEERED SALES AND SERVICE

1361 SOUTH 2nd WEST SALT LAKE CITY 8, UTAH

PHONE 6-4313 6-3031

Mailing Address
P. O. BOX 87

Date February 1, 1952

Sold To
Mt. Wheeler Mines, Inc.
P. O. Box 150
Salt Lake City, Utah

Your Order No. Rental Contract
Shipped Via Truck Freight
On 2/1/52
Terms Net
Salesman Vincent

Rental

One - Generator, Spec. No. 476-A, 10 K.W., 10 K.V.A., 230 Volts, A/c 25 Amps per Term. 3 Ph. 60 Cycle 1200 RPM & 32 Volt Battery. Engine: Siz 3-1/4" x 4" No. MRD 4 A310., w/100 Gal. Fuel Tank & Fittings. Two 16 Volt Wet Storage Batteries comprise 32 Volt Electrical system. $172.27

cost $2200 new = 18 months

Tax exempt - shipped to Shoshone, Nevada

Rental period from 2/1/52 to 2/29/52 Incl.

MT. WHEELER MINES, INC.
DMEA-2082; Idm-E 248
Item 2(c) generator rental
JPW

Paid 3/10/52
Voucher # 301
Check # 289
JPW

No goods will be accepted for credit unless returned with our permission. Transportation charges must be prepaid. Date of our invoice must accompany goods. A 10% charge to cover handling will be made on all returned goods unless returned on account of being defective or error on our part. Goods made to order are unreturnable. No claims allowed after 15 days from date of invoice. Interest charged on all past due accounts.

HOTEL NEVADA

COCKTAIL LOUNGE AND COFFEE SHOP
FIRE PROOF

H C SIMPSON, MANAGER
BERT RIDDICK, OWNER

ELY, NEVADA Feb. 13, 1952.

Mr. James D. Williams
Mt. Wheeler Mines Inc.
P.O. Box 150
Salt Lake City 10, Utah

Dear Jim,

The following is the amount charged by Angelo Beck for Bulldozer work in Pole Canyon.

Mileage $1.00 per mile round trip from Ely to Pole Canyon - 84 miles - $ 84.00

Ploughing snow out of Pole Canyon road beginning at County road and ending at Pole Canyon tunnel site $10.00 per hour - 39 hours - 390.00

Total Cost $ 474.00

approved Vern E. Jeppson

Less Transportation 84.00

Net Bulldozer Rental $ 390.00

Paid 2/24/52
Voucher # 291
Check # 279
J.

MT. WHEELER MINES, INC.
Tunnel Project
JAW-E 2 48
Item 1-d-3 $ 474.00
JRW

Eastern Nevada's Finest

REVISIONS		
July, 1952 Advance		123.0'
August "	"	210.5'
September "	"	239.0'
October "	"	163.0'

REFERENCES: Solar Obs. for Meridian; Transit Survey by C.R. Hagen; October 29, 1952 (Ref. D-100-5); Geology by J.D. Williams

WORK — DRAWN: ; TRACED: 11-1-52 JDW; CHECKED: ; APPROVED:

[redacted]
MT. WHEELER MINES, INC.
P.O. Box 150
SALT LAKE CITY 10, UTAH.

DETAIL OF POLE TUNNEL ADVANCE
DMEA-2082-Tungsten; Contract Idm-E248

SCALE 1" = 20'

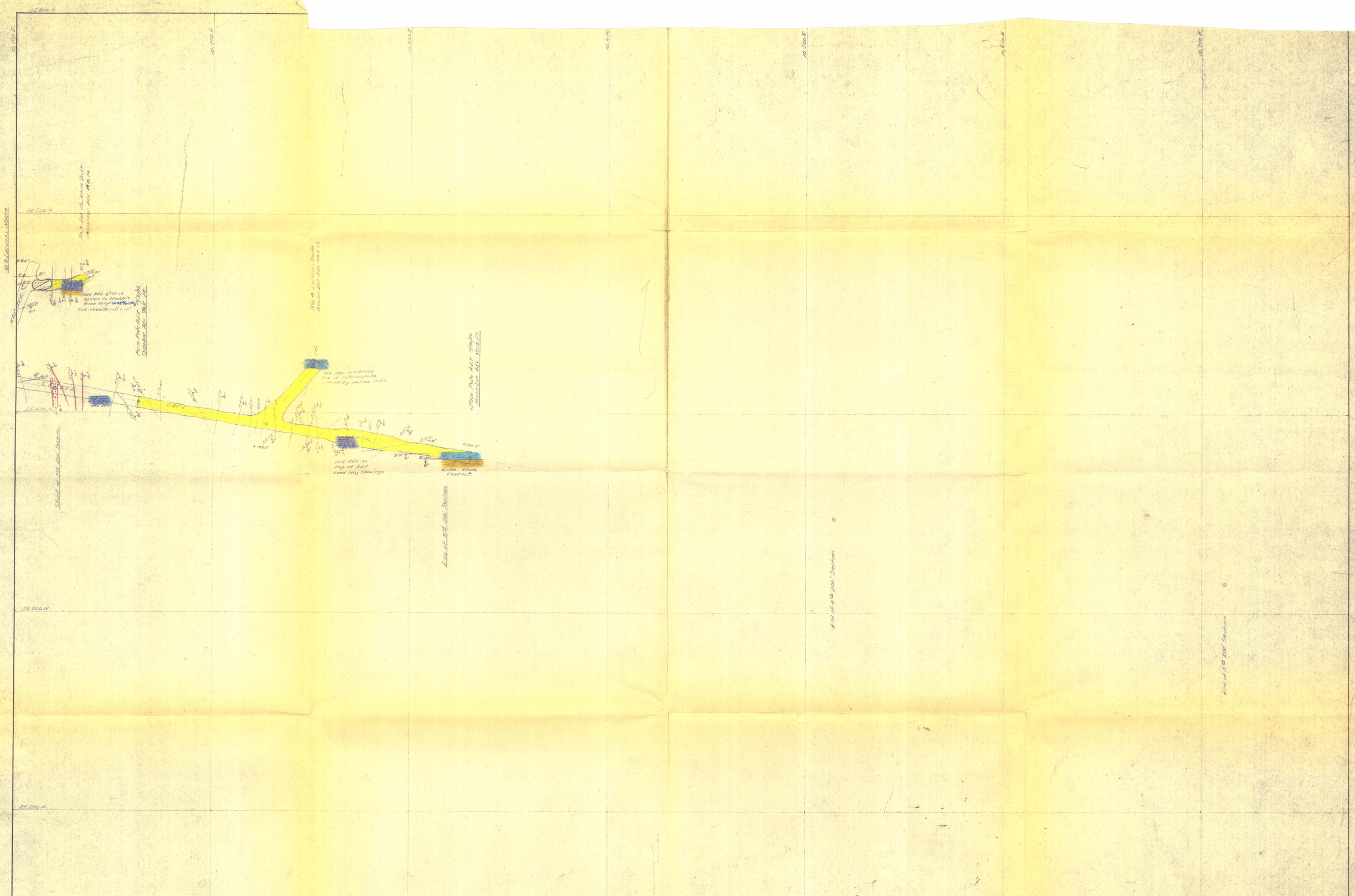
D-100-5 (Trace)

REVISIONS	November, 1952 Advance 295.5' DECEMBER 1952 Advance 264.0'	REFERENCES	WORK: DRAWN Dec 1, '52 JDW; TRACED Jan 5, '53 JDW; CHECKED; APPROVED	MT. WHEELER MINES, INC. P.O. Box 150 Salt Lake City 10, Utah.	DETAIL OF POLE TUNNEL ADVANCE D.M.E.A.-2082-Tungsten; Contract Idm-E 248

SCALE 1" = 20'

D-100-5 (Sheet 2)

SALT LAKE BLUE



REVISIONS	November, 1952, Advance 28.5 ft	REFERENCES		WORK: DRAWN Dec 1, '52 JPW; TRACED; CHECKED; APPROVED	[redacted] Mt. Wheeler Mines, Inc. P.O. Box 150 Salt Lake City 10, Utah.

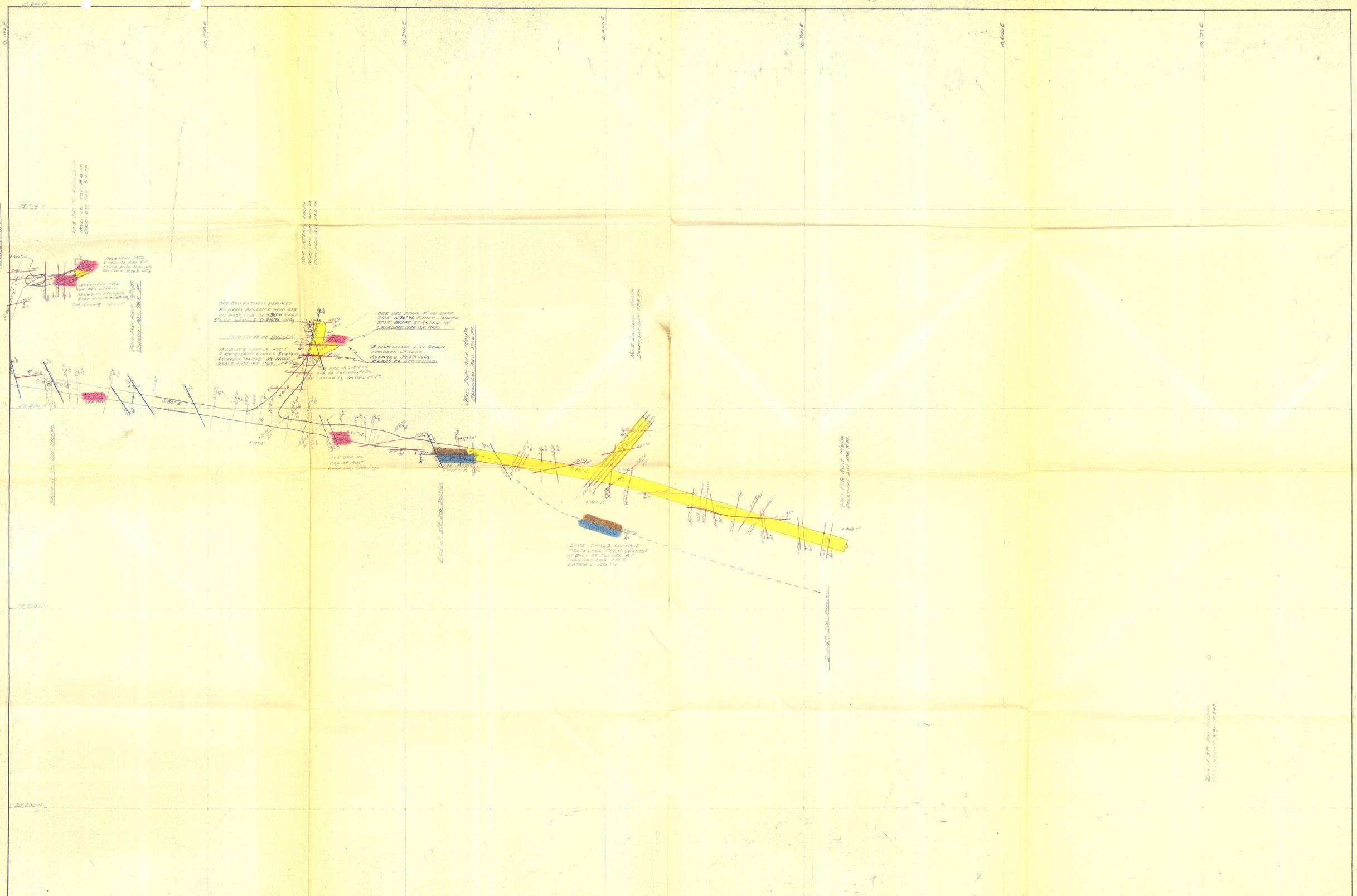
DETAIL OF POLE TUNNEL ADVANCE

D.M.E.A.-2082-Tungsten; Contract Idm-E248

SCALE 1" = 20'

D-100-5 (Sheet 2)

SALT LAKE BLUE



REVISIONS	
November, 1952, Advance	28.5.0
DECEMBER, 1952, Advance	26.4.0'

REFERENCES

WORK		
DRAWN	Dec 1 '52	DOU
TRACED	Jan 5 '53	YEAH
CHECKED		
APPROVED		

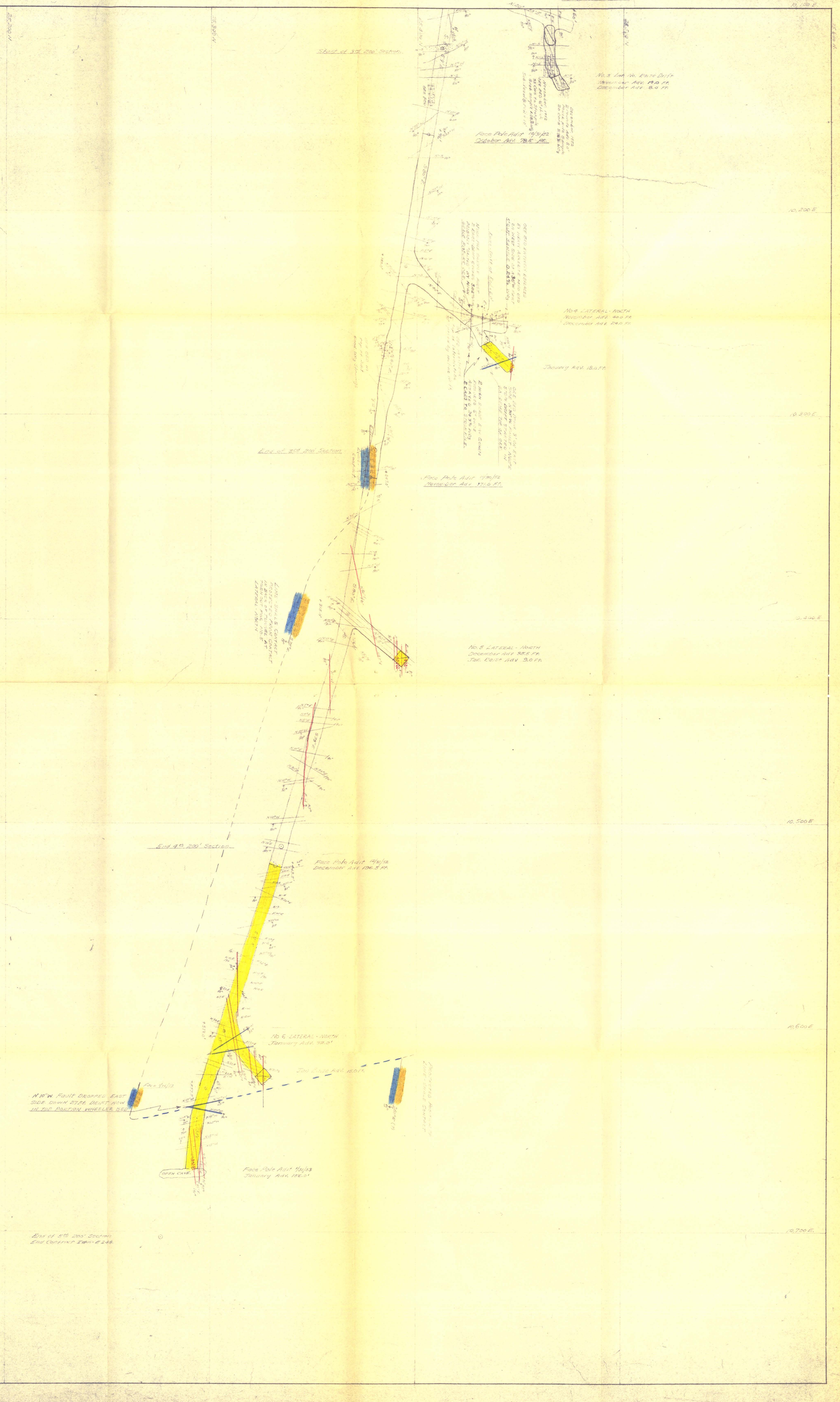
[redacted]
Mt. Wheeler Mines, Inc.
P.O. Box 150
Salt Lake City 10, Utah.

DETAIL OF POLE TUNNEL ADVANCE
D.M.E.A.-2082-Tungsten; Contract Jam-E 248

SCALE 1" = 20'

D-100-5 (Sheet 2)

SALT LAKE BLUE



REVISIONS

Revised, incl. Advance		
Revised, incl. Advance		

REFERENCES

WORK

DRAWN	Jan 1/53	
TRACED	Jan 5 '53	
CHECKED		
APPROVED		

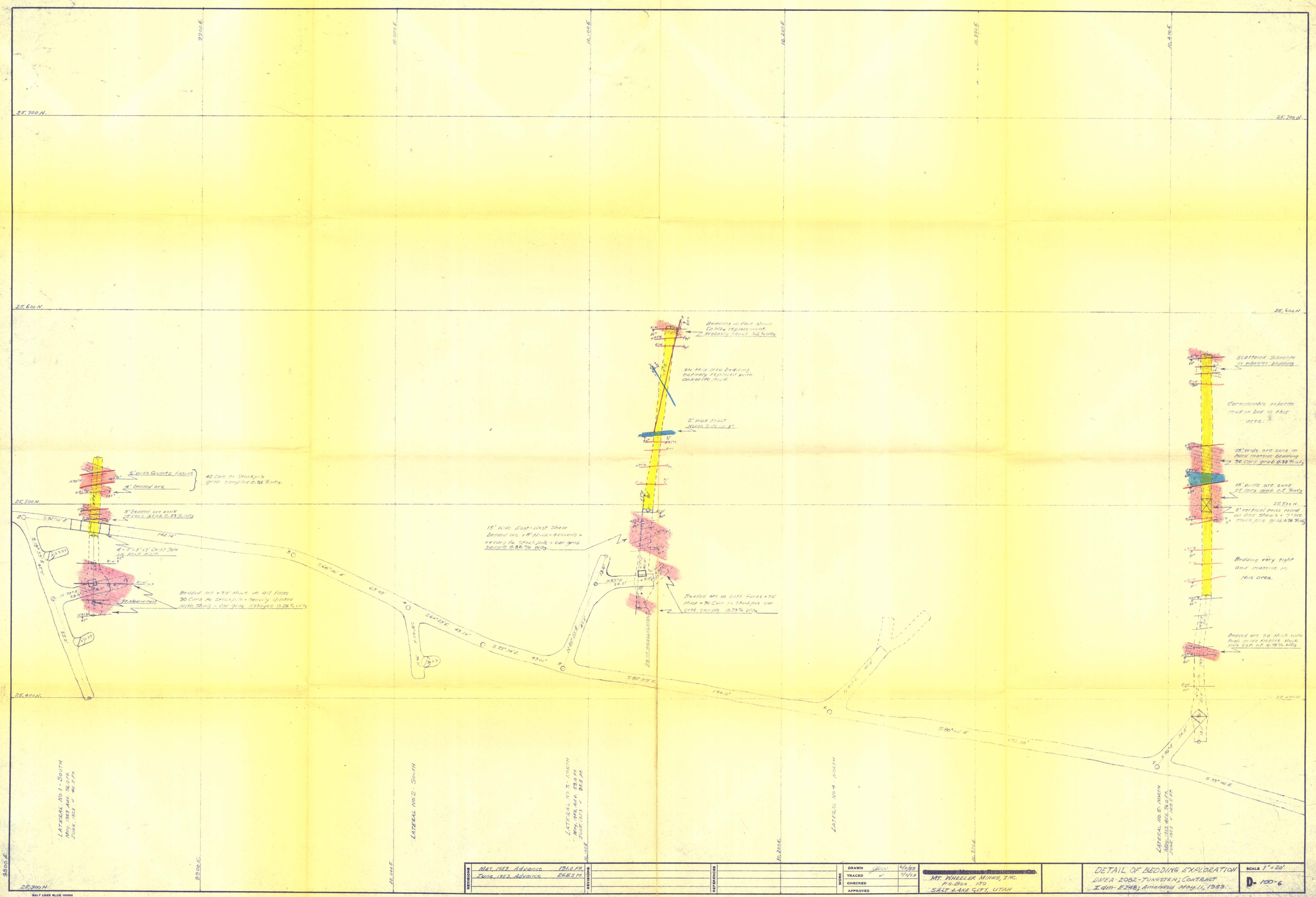
MT. WHEELER MINES, INC.
SALT LAKE CITY, UTAH

DETAIL OF POLE TUNNEL ADVANCE
D.U.L.-Albee-Tangyes, Contract Tun. E 248

SCALE 1" = 20'

D-12-5 (Sheet 5)

SALT LAKE BLUE



REVISIONS	
MAY, 1983 Advance	191.0 FT.
June, 1983 Advance	265.5 FT.

REVISIONS

REFERENCES

WORK		
DRAWN	JWW	6/13/83
TRACED	✓	7/11/83
CHECKED		
APPROVED		

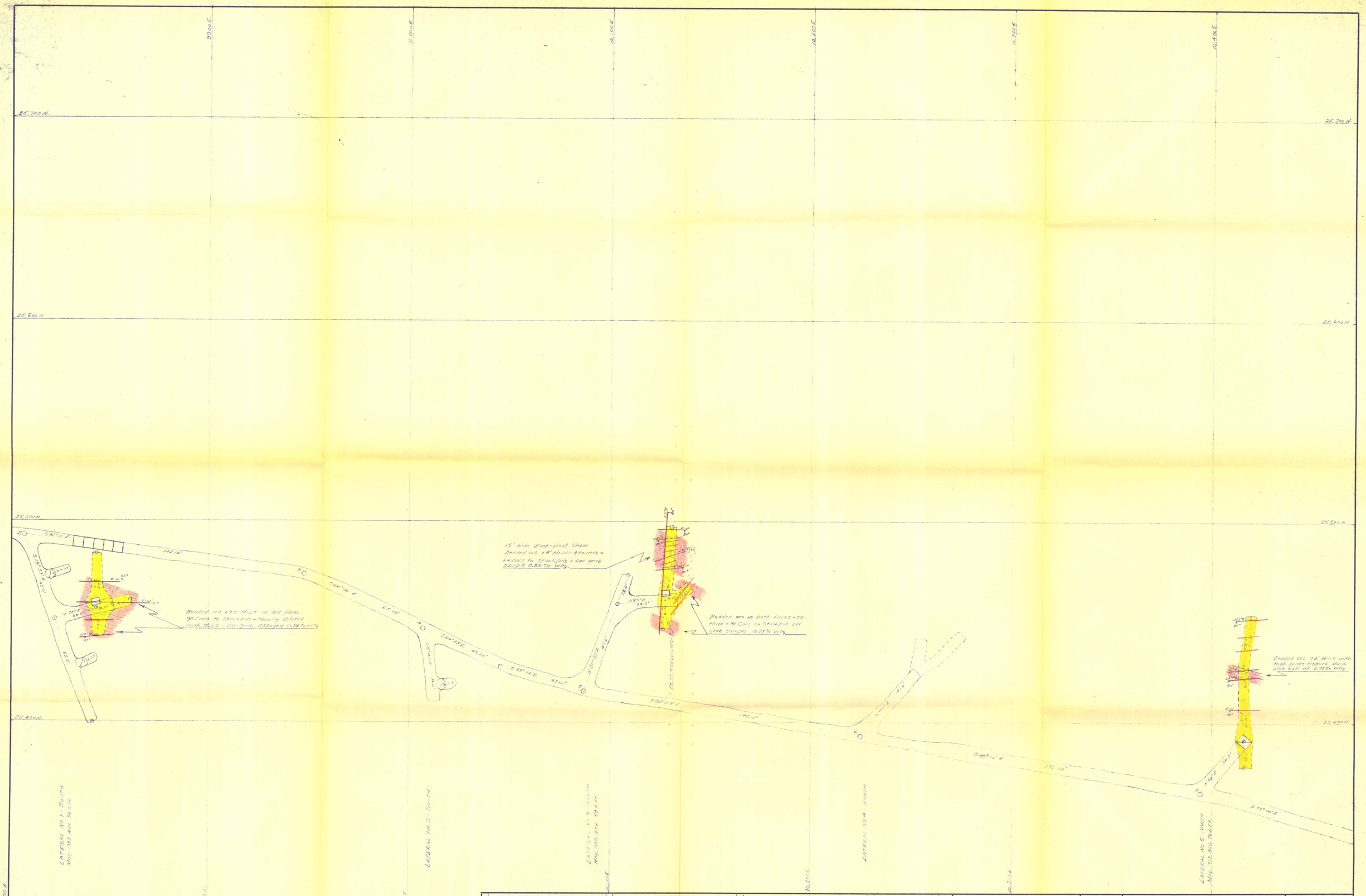
[redacted] Metals Production Co.
MT. WHEELER MINES, INC.
P.O. Box 150
SALT LAKE CITY, UTAH

DETAIL OF BEDDING EXPLORATION
DMEA-2082-TUNGSTEN; CONTRACT
I dm-5248; Amended May 11, 1983.

SCALE 1" = 20'

D- 100-6

SALT LAKE BLUE 1000H



REVISIONS	
MAY, 1953 Advance	1910 FT.

REVISIONS	

REFERENCES	

WORK		
DRAWN		6/1/53
TRACED		
CHECKED		
APPROVED		

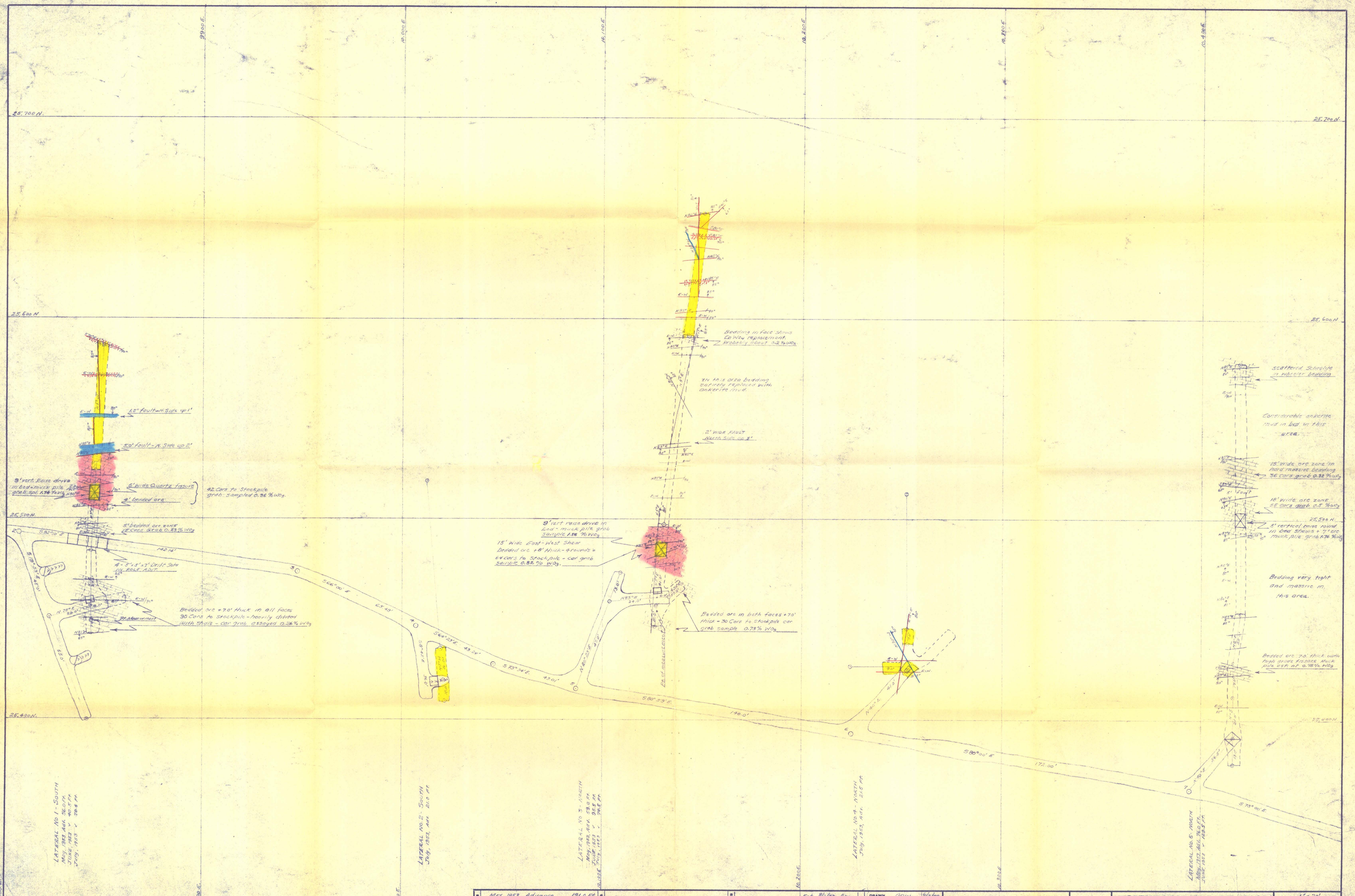
Combined Metals Reduction Co.
MT. WHEELER MINES, INC.
P.O. Box 150
SALT LAKE CITY, UTAH

DETAIL OF BEDDING EXPLORATION
DMEA-2082-TUNGSTEN; CONTRACT
I dm-E248; Amended May 11, 1953.

SCALE 1" = 20'

D-100-6

BALT LAKE BLUE 10004



REVISIONS			REVISIONS		REFERENCES			WORK		
May, 1983 Advance	131.0 Ft.					Est. 9/1/83		DRAWN	JDW	4/5/83
June, 1983 Advance	268.5 Ft.							TRACED	✓	4/5/83
July, 1983 Advance	183.5 Ft.							CHECKED		
								APPROVED		

[redacted] Reduction Co.
MT. WHEELER MINES, INC.
P.O. Box 150
SALT LAKE CITY, UTAH

DETAIL OF BEDDING EXPLORATION
DMEA-2082-TUNGSTEN; CONTRACT I-Gm-E248; Amended May 11, 1983.

SCALE 1" = 20'

D- 100-6

SALT LAKE BLUE 1000H

REVISIONS	
May, 1953 Advance	191.0 Ft.
June, 1953 Advance	265.5 Ft.
July, 1953 Advance	183.5 Ft.
August, 1953 Advance	154.0 Ft.

REVISIONS

REFERENCES

Ext. 8/2/53 JOW
✓ 9/8/53 ✓

WORK		
DRAWN	JOW	6/3/53
TRACED	✓	7/7/53
CHECKED		
APPROVED		

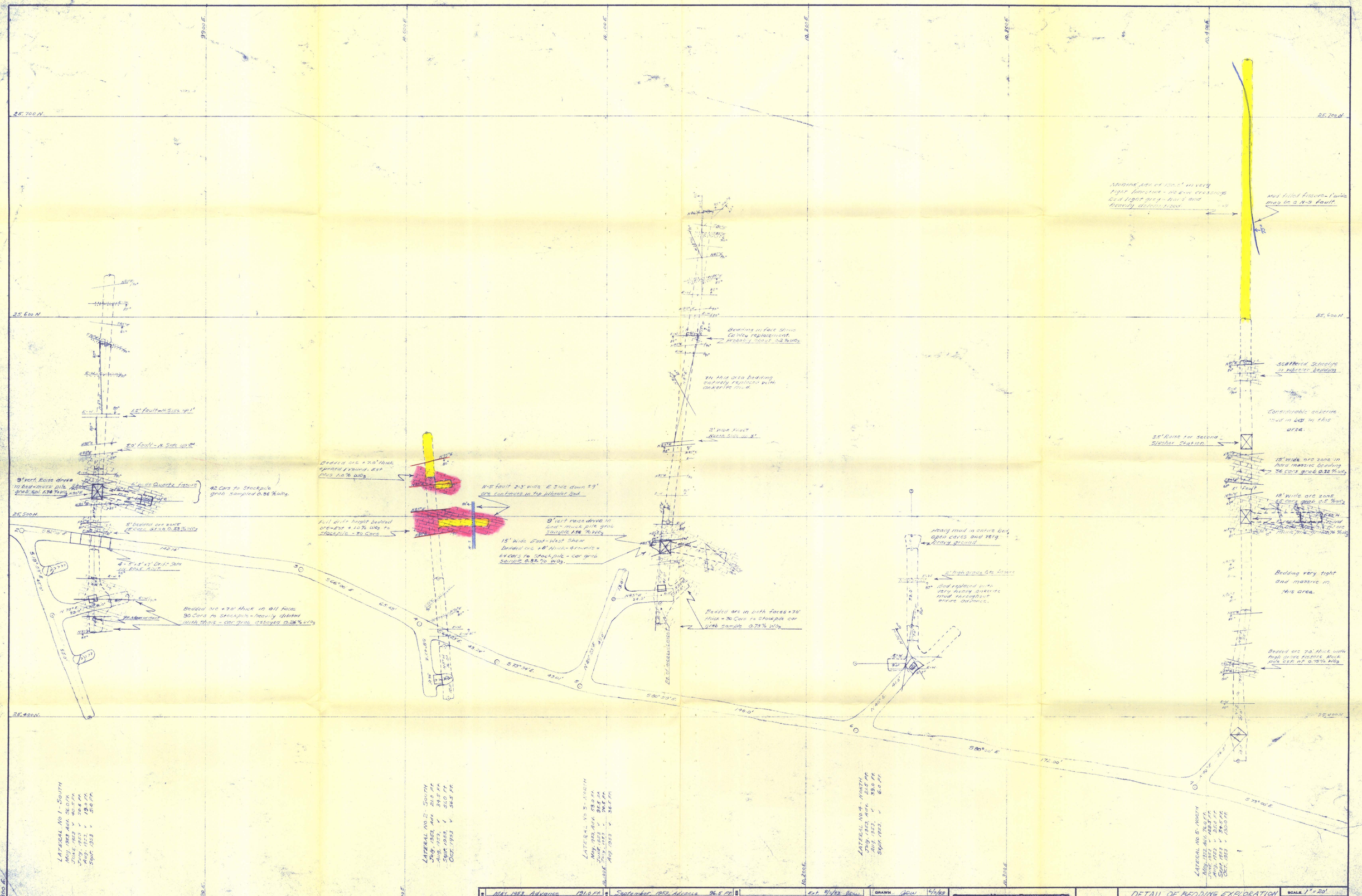
COMBINED METALS REDUCTION CO.
MT. WHEELER MINES, INC.
P.O. Box 150
SALT LAKE CITY, UTAH

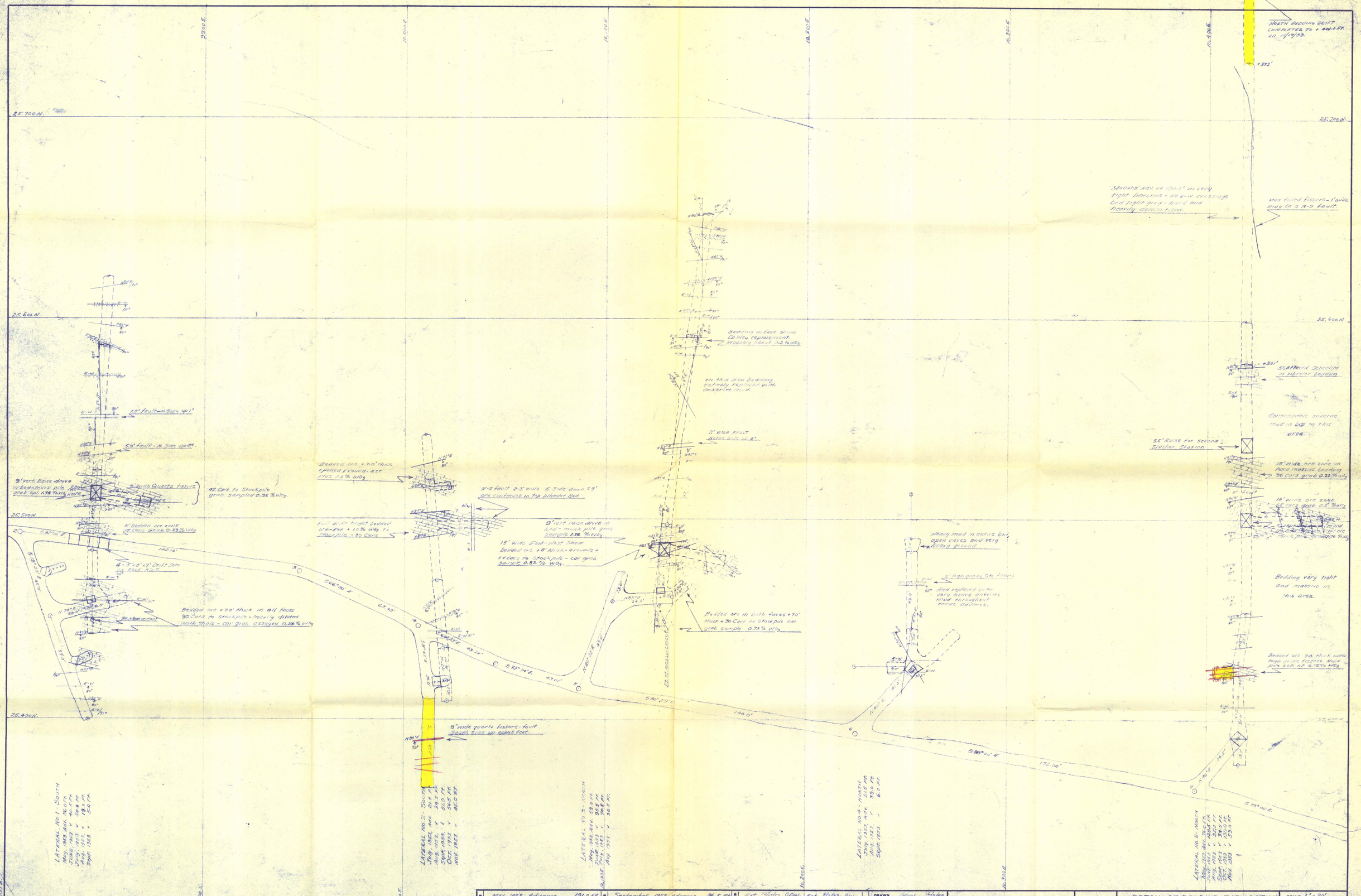
DETAIL OF BEDDING EXPLORATION
DMEA-2082-TUNGSTEN; CONTRACT
Idm-E248; Amended May 11, 1953.

SCALE 1" = 20'

D-100-6

9800 E.
9900 E.
10,000 E
10,100 E
10,200 E
10,300 E
10,400 E
25,700 N.
25,600 N
25,500 N.
25,400 N.
25,300 N.
1.5' fault - N. Side up 1'
5.0' fault - N. Side up 2'
9' vert. Raise drive in bed-muck pile grab spl. 1.74 % WO3
6' wide Quartz fissure
42 Cars to Stockpile grab sampled 0.36 % WO3.
5' bedded ore zone 15 Cars Grab 0.23 % WO3
S 82°10' E
142.14'
4 - 5'x5'x7' Drift Sets in POLE ADIT.
Bedded ore + 7.0' thick in all faces 90 Cars to Stockpile - heavily diluted with shale - car grab assayed 0.26 % WO3
Pt. Measurement
N 75° E 22.0'
S 19°53' E 45.0'
55.0'
S 66°00' E
65.49'
Bedded ore + 7.0' thick opened 1 round. Est plus 1.0 % WO3
Full drift height bedded ore - Est + 1.0 % WO3 to Stockpile - 30 Cars
S 64°23' E
43.24'
S 73°34' E.
43.01'
9' vert raise drive in bed - muck pile grab sample 1.56 % WO3
15' Wide East-West Shear Bedded ore + 8' thick - 4 rounds = 64 Cars to Stockpile - car grab sample 0.82 % WO3.
Bedding in face shows CaWO4 replacement. Probably about 0.2 % WO3
IN this area bedding entirely replaced with ankerite mud.
2' WIDE FAULT North Side up 3'
N 20°23' E 47.0'
N 85° E 24.0'
Bedded ore in both faces + 7.0' thick - 30 Cars to Stockpile car grab sample 0.73 % WO3
Pt. of measurement
S 80°59' E.
140.0'
Heavy mud in entire bed, open caves and very heavy ground
2' high grade Qtz fissure
Bed replaced with very heavy ankerite mud throughout entire advance.
N 40° E 41.0'
S 80°00' E
172.00'
N 40° E 36.5'
S 73°00' E.
scattered Scheelite in wheeler bedding
Considerable ankerite mud in bed in this area.
3.5' Raise for second Slusher Station
15' wide ore zone in hard massive bedding 36 cars grab 0.32 % WO3
5' fault
18' wide ore zone 55 cars grab 0.5 % WO3
Bedding very tight and massive in this area.
Bedded ore 7.0' thick with high grade fissure. Muck pile est. at 0.75 % WO3
LATERAL No 1 - SOUTH
May, 1953 Adv. 56.0 Ft.
June, 1953 " 40.5 Ft.
July, 1953 " 70.5 Ft.
Aug. 1953 " 19.0 Ft.
Sept. 1953 " 5.0 Ft.
LATERAL No. 2 - SOUTH
July, 1953, Adv. 21.0 Ft.
Aug. 1953, " 34.5 Ft.
Sept. 1953, " 51.0 Ft.
LATERAL No 3 - NORTH
May, 1953, Adv. 59.0 Ft.
June, 1953 " 95.5 Ft.
July, 1953 " 70.5 Ft.
Aug. 1953 " 36.5 Ft.
LATERAL No. 4 - NORTH
July, 1953, Adv. 21.5 Ft.
Aug. 1953, " 39.0 Ft.
Sept. 1953, " 6.0 Ft.
LATERAL No. 5 - NORTH
May, 1953 Adv. 76.0 Ft.
June 1953 " 129.5 Ft.
Aug. 1953 " 25.0 Ft.
Sept. 1953 " 34.5 Ft.
REVISIONS
May, 1953 Advance 191.0 Ft.
June, 1953 Advance 265.5 Ft.
July, 1953 Advance 183.5 Ft.
August, 1953 Advance 154.0 Ft.
September, 1953 Advance 96.5 Ft.
REFERENCES
Ext. 8/7/53
9/8/53
10/14/53
WORK
DRAWN 6/3/53
TRACED 7/7/53
CHECKED
APPROVED
COMBINED METALS REDUCTION CO.
MT. WHEELER MINES, INC.
P.O. Box 150
SALT LAKE CITY, UTAH
DETAIL OF BEDDING EXPLORATION
DMEA-2082-TUNGSTEN; CONTRACT
Idm-E248; Amended May 11, 1953.
SCALE 1" = 20'
D-100-6
SALT LAKE BLUE 1000H


9900 E.
10,000 E.
10,100 E.
10,200 E.
10,300 E.
10,400 E.
25,700 N.
25,600 N.
25,500 N.
25,400 N.
25,300 N.
12' fault - N. Side up 4'
50' fault - N. Side up 8'
9' vert. Raise drive in bed - muck pile grab. Spl. 1.76 % WO3
6' wide Quartz fissure
42 Cars to Stockpile grab sampled 0.96 % WO3
5' bedded ore zone 18 Cars - est 1.0 % WO3 0.23 % WO3
4' x 5' x 7' Drift Sets for Rock Hoist
Pt. Mineral mark
Bedded ore + 7.0' thick in all faces 90 Cars to Stockpile - heavily dilated with shale - car grab assayed 0.26 % WO3
Bedded ore + 7.0' thick typical reveal. Est Mkg 1.0 % WO3
Full drift height bedded ore - Est + 1.0 % WO3 to stockpile - 30 Cars.
N-S fault 2-3' wide E. Side down ± 9' ore continues in top between beds
9' vert raise drive in bed - muck pile grab sample 1.56 % WO3
15' wide East - West Shear Bedded ore + 8' thick - Arsenite + 44 Cars to stock pile - car grab sample 0.32 % WO3.
Bedding in face strong calcite replacement. Weakly react 3.2 % WO3
In this area bedding entirely replaced with calcite rock.
2' wide fault North Side up 8'
Bedded ore in path faces + 7.0' thick - 30 Cars to stockpile car grab sample 0.79 % WO3
Heavy mud in entire bed, open caves and very heavy ground
6' high grade fate fissure
Bed replaced with very heavy calcite mud throughout entire entrance.
Mining ran at 15.0' in very tight fissure - No E-W crossing. Red light grey - hard and heavily calcite rock.
Mud filled fissure - 1' wide may be a N-S fault.
Scattered Scheelite in siliceous bedding
Considerable calcite mud in bed in this area.
3.5' Raise for second Slusher Station.
15' wide ore zone in hard massive bedding 36 Cars grab 0.32 % WO3
5' fault
18' wide ore zone 55 Cars grab 0.5 % WO3
Muck pile grab 0.76 % WO3
Bedding very tight and massive in this area.
Bedded ore 7.0' thick with high grade fissure. Muck pile car at 0.95 % WO3
S 66° 00' E
65.0'
S 73° 34' E
43.0'
S 80° 39' E
190.0'
S 80° 00' E
172.00'
S 79° 00' E
LATERAL No 1 - SOUTH
May 1953 Adv. 36.0 FT.
June 1953 " 40.0 FT.
July 1953 " 18.5 FT.
Aug. 1953 " 18.5 FT.
Sept. 1953 " 50.0 FT.
LATERAL No 2 - SOUTH
June, 1953 Adv. 81.0 FT.
July 1953 " 31.0 FT.
Aug. 1953 " 34.0 FT.
Sept. 1953 " 50.0 FT.
Oct. 1953 " 36.5 FT.
LATERAL No 3 - NORTH
May 1953 Adv. 73.0 FT.
June 1953 " 35.5 FT.
July 1953 " 26.5 FT.
Aug. 1953 " 36.5 FT.
LATERAL No 4 - NORTH
July 1953 Adv. 36.5 FT.
Aug. 1953 " 33.0 FT.
Sept. 1953 " 6.0 FT.
LATERAL No 5 - NORTH
May 1953 Adv. 36.0 FT.
June 1953 " 36.5 FT.
Aug. 1953 " 22.0 FT.
Sept. 1953 " 33.5 FT.
Oct. 1953 " 15.0 FT.
REVISIONS
May, 1953 Advance 191.0 FT.
June, 1953 Advance 268.5 FT.
July 1953 Advance 183.5 FT.
August, 1953 Advance 154.0 FT.
REVISIONS
September, 1953 Advance 36.5 FT.
October, 1953 Advance 186.5 FT.
REFERENCES
Est. 8/1/53 DGW
8/6/53
10/21/53
11/13/53
WORK
DRAWN DGW 6/4/53
TRACED 7/4/53
CHECKED
APPROVED
MT. WHEELER MINES, INC.
P.O. Box 150
SALT LAKE CITY, UTAH
DETAIL OF BEDDING EXPLORATION
DMEA-208R-TUNGSTEN; CONTRACT
Idm-E248; Amended May 11, 1953.
SCALE 1" = 20'
D-100-6
SALT LAKE BLUE 1000H



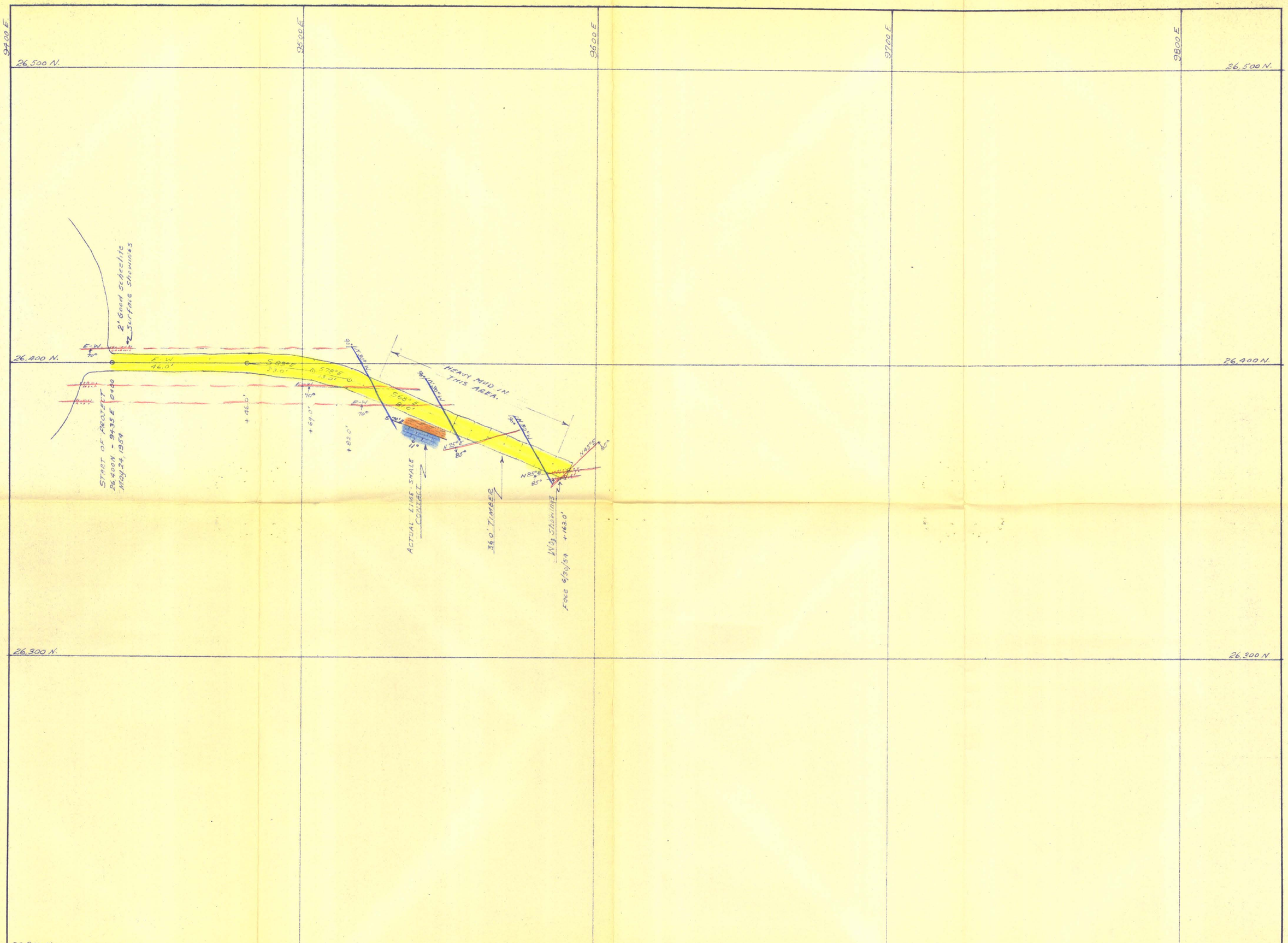
REVISIONS		REVISIONS		REVISIONS		WORK			
May, 1983 Advance	131.0 Ft.	September, 1983 Advance	96.5 Ft.	Ext. 12/15/83	Down	Ext. 8/4/83	Down	DRAWN	6/1/83
June, 1983 Advance	265.5 Ft.	October, 1983 Advance	186.0 Ft.			✓ 9/4/83	✓	TRACED	7/1/83
July, 1983 Advance	183.5 Ft.	November, 1983 Advance	104.0 Ft.			✓ 10/4/83	✓	CHECKED	
August, 1983 Advance	154.0 Ft.					✓ 11/15/83	✓	APPROVED	

Mining Publications Co.
MT. WHEELER MINES, INC.
P.O. Box 150
SALT LAKE CITY, UTAH

DETAIL OF BEDDING EXPLORATION
DMEA: 2082-TUNGSTEN; CONTRACT I dm-E 2148; Amended May 11, 1983.

SCALE 1" = 20'

D- 100-6



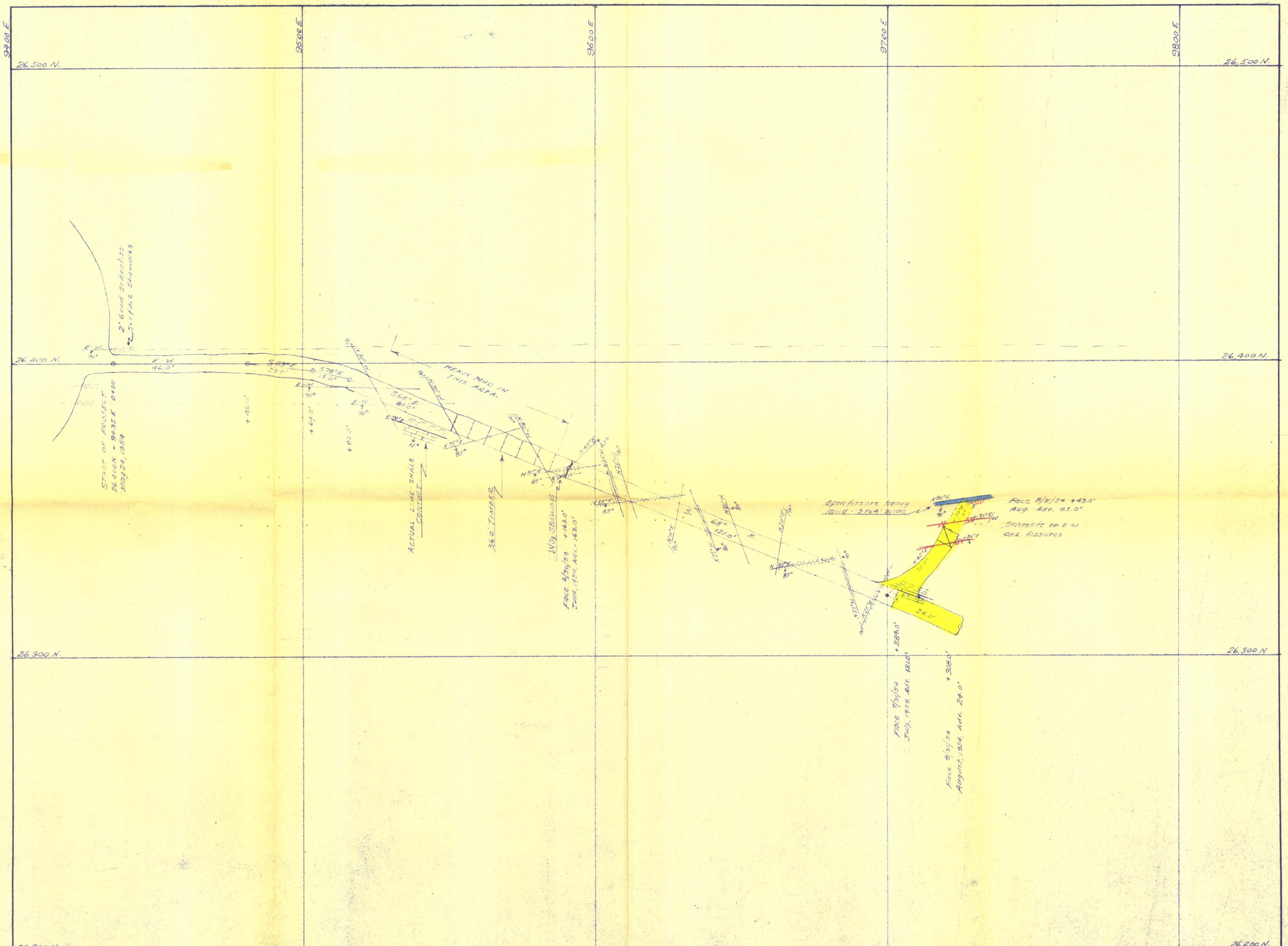
REVISIONS	REVISIONS	REFERENCES	WORK			
			DRAWN 7/7/54	Pacco	Mt. Wheeler Mines, Inc. 218 Felt Building SALT LAKE CITY, UTAH.	PLANT
			TRACED			
			CHECKED			
			APPROVED			

D.M.E.A. - 2082 - TUNGSTEN
Contract I-Am-E248 Amend. No. 4
PROGRESS MAP ~ NORTH ZONE.

SCALE 1" = 20'

C - 100

CESCO-1000M



REVISIONS		REVISIONS		REFERENCES		WORK		
		June, 1954 Advance	163.0'			DRAWN 7/7/54	[illegible]	
		July, 1954 Advance	121.0'			TRACED 8/4/54	✓	
		Aug., 1954 Advance	67.0'			CHECKED 8/3/54	✓	
						APPROVED		

Mt. Wheeler Mines, Inc.
218 Felt Building
SALT LAKE CITY, UTAH.

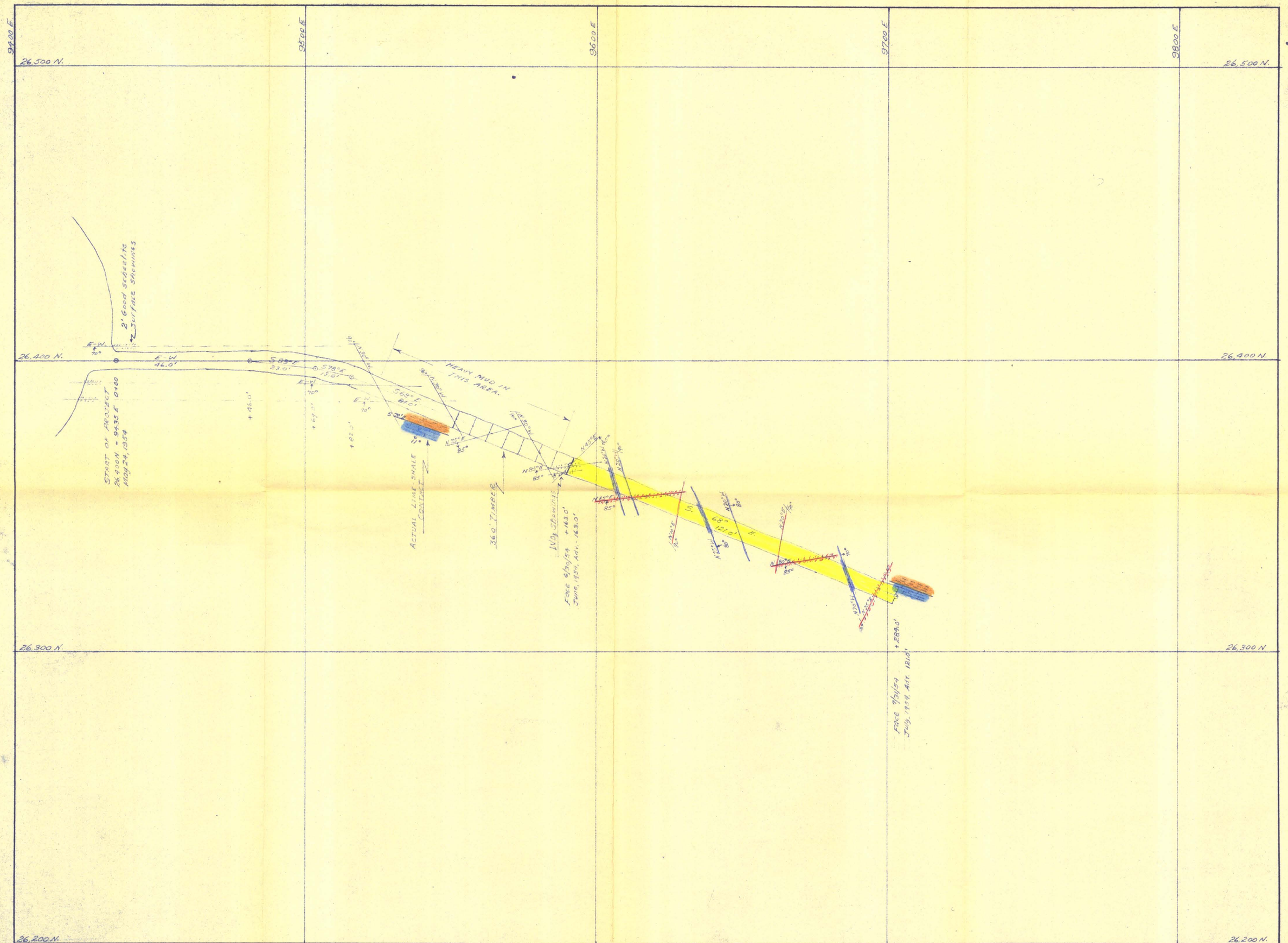
PLANT

D.M.E.A.-2082-TUNGSTEN
Contract I-Am-E248 Amend. No. 4
PROGRESS MAP ~ NORTH ZONE.

SCALE 1" = 20'

C-100

CESCO-1000M



REVISIONS	REVISIONS	REFERENCES	WORK		
	June, 1954, Advance 163.0'		DRAWN 7/7/54	Jacu	
	July, 1954, Advance 121.0'		TRACED 8/4/54	✓	
			CHECKED		
			APPROVED		

Mt. Wheeler Mines, Inc.
218 Felt Building
SALT LAKE CITY, UTAH.

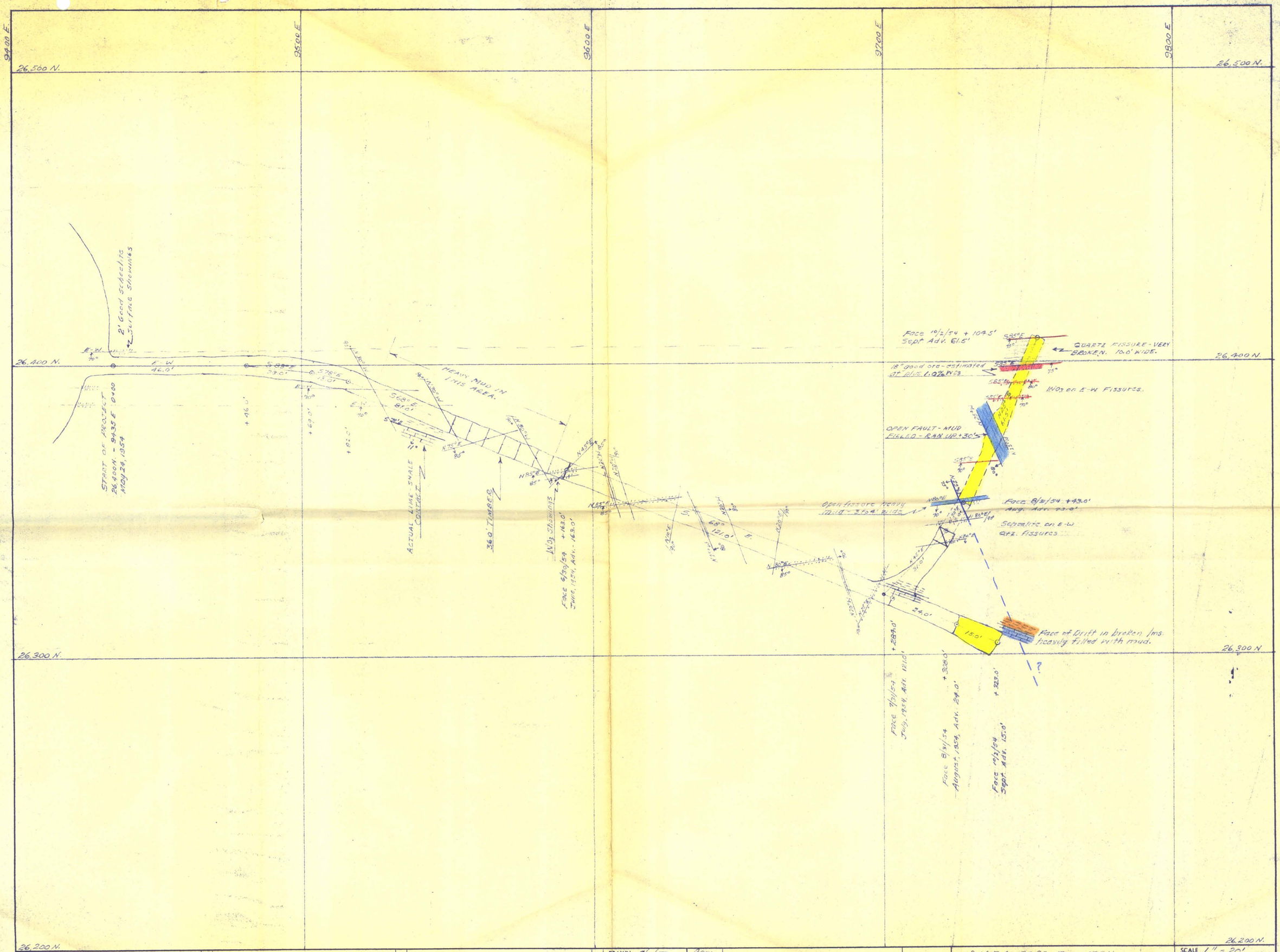
PLANT

D.M.E.A. - 2082 - TUNGSTEN
Contract Idm-E248 Amend. No. 4
PROGRESS MAP ~ NORTH ZONE.

SCALE 1" = 20'

C-100

CESCO-1000H



REVISIONS			
	June, 1954 Advance	163.0'	
	July, 1954 Advance	121.0'	
	Aug. 1954 Advance	67.0'	
	Sept. 1954 Advance	76.5'	

REFERENCES

WORK		
DRAWN	9/7/54	Pacco
TRACED	9/9/54	✓
CHECKED	9/9/54	✓
APPROVED	10/8/54	✓

Mt. WHEELER MINES, INC.
218 Felt Building
SALT LAKE CITY, UTAH.

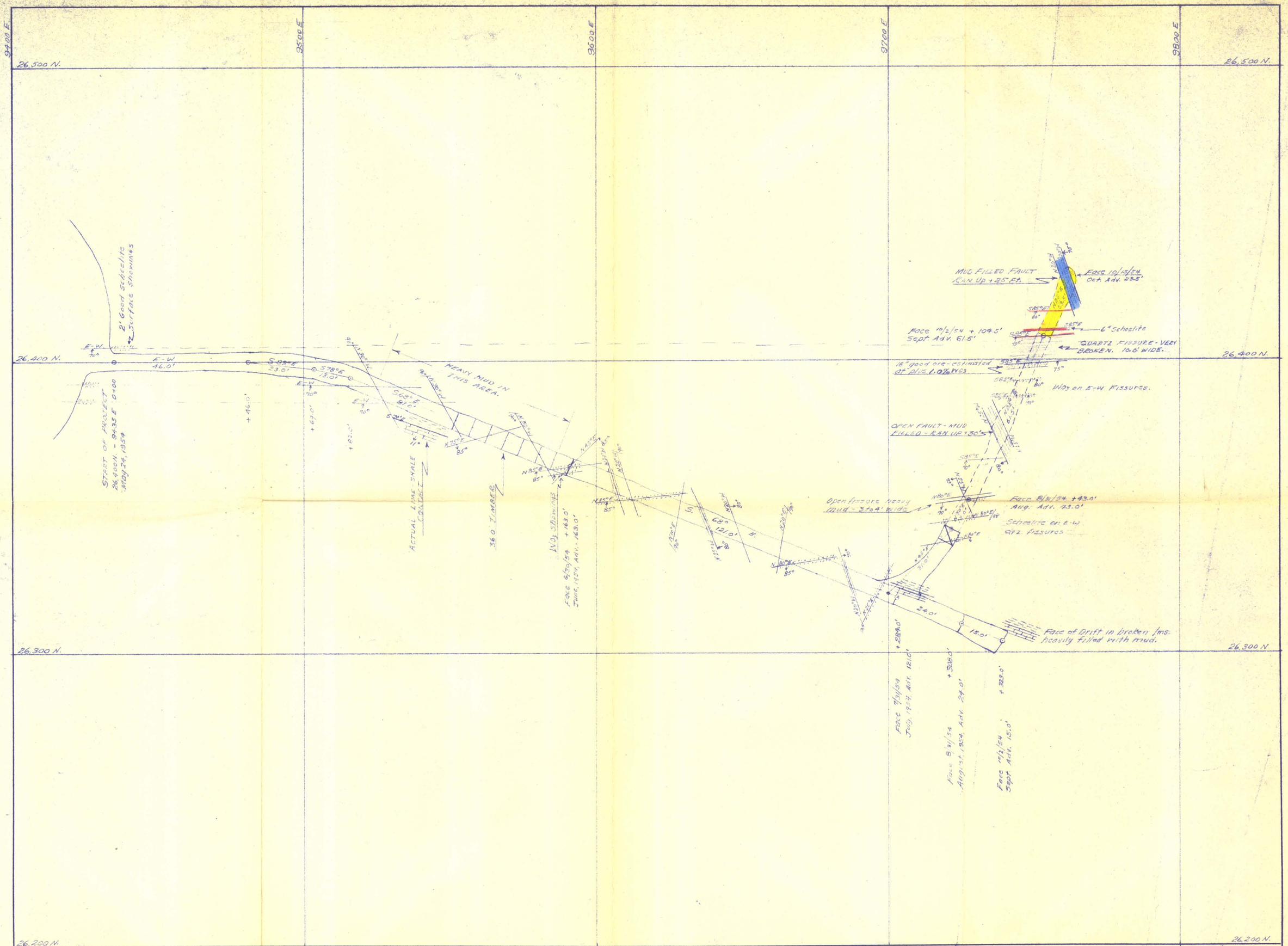
PLANT

D.M.E.A. - 2082 - TUNGSTEN
Contract Idm - E248 Amend. No. 4
PROGRESS MAP ~ NORTH ZONE.

SCALE 1" = 20'

C - 100

DESCO-1000M



REVISIONS		REVISIONS		REFERENCES		WORK		
		June, 1954, Advance	163.0'	October 1954 Advance	23.5'	DRAWN 7/7/54	Dave	
		July, 1954, Advance	121.0'			TRACED 8/9/54	✓	
		Aug., 1954, Advance	67.0'			CHECKED 9/3/54	✓	
		Sept. 1954, Advance	76.5'			APPROVED 10/8/54	✓	

MT. WHEELER MINES, INC.
218 Felt Building
SALT LAKE CITY, UTAH.

PLANT

D.M.E.A. - 2082 - TUNGSTEN
Contract I-dm-E248 Amend. No. 4
PROGRESS MAP ~ NORTH ZONE.

SCALE 1" = 20'

C - 100

CESCO-100DM