WESTMONT TRACTOR Co.

CATERPILLAR

P O BOX 1445 May 15, 1963 MISSOULA, MONTANA

MAY 20 1963

United States Department of Interior
Office of Minerals Exploration
Washington 25, D. C.

Attention: Mr. W. R. Griswold, Chief
Division of Minerals

Gentlemen:

Reference is made to your May 10 letter on the subject of DMEA-3098 (Tungsten), Sunshine Mining Company, Tungstar Group(Tarlach Group), Deer Lodge and Granite Counties, Montana, Contract IDm-E598.

We are returning your photostatic copy of the owners consent to lien. I can tell you definitely that the signature of the William Gallagher is not the one associated with our company.

Now that we know what it is all about, I can tell you that the William Gallagher involved was formerly a resident of Butte, Montana but we understand that he has been deceased for several years.

We do not know whether or not you have been in communication with Mr. Elstone and Mr. Fisher of the Mines Prospecting and Exploration Company on this same matter, but both of those gentlemen are now residing in Missoula. Mr. Earl F. Elstone, 2115 26th Avenue and Mr. Herbert C. Fisher at 2109 26th Avenue and incidently Mr. Fisher also maintains a public accounting office at 259 W. Front Street here in Missoula.

We hope this information contributes to the solution of the problem involving the property.

Very truly yours,

Earl Smith
Office Manager

jas
file

REPORT OF
ROYALTY REVIEW

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Washington office pertaining to Contract Idm-E598, Docket DMEA-3098 (tungsten), dated September 14, 1953, with

Sunshine Mining Company
W. 300 Mission Ave.
Spokane 1, Washington

for the purpose of determining the amount of royalty payable to the U. S. Government on sales of minerals from property referred to as the Storm Lake Tungsten Property and Tungstar and Tarlach Claim Group located in Deer Lodge and Granite Counties, Montana, during the period August 1, 1959, through April 8, 1963.

A certification of discovery or development was issued on August 26, 1955, and, in accordance with Article 6 and Annex II of the contract, royalty is payable on all minerals produced from the land described in Article 2 of the contract for a period of 10 years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review dated September 6, 1955, indicated accepted costs under the exploration contract amounting to $44,927.80 with the Government's contribution on a 75 percent basis being $33,695.87.

The status of the project, the scope of review, and the reasons therefor are stated on page 2.

This review found no sales subject to the Government's royalty subsequent to the period covered by a prior Report of Royalty Review which found the sales subject to the Government's royalty through July 31, 1959, to be $8,418.34. The royalty account as of July 31, 1959, was:

Total Royalty Payable	$420.92
Total Royalty Paid	420.92
Balance of Royalty Due	$ -0-

As of April 8, 1963, the royalty account of this project was found to be:

Total Royalty Payable	$420.92
Total Royalty Paid	420.92
Balance of Royalty Due	$ -0-

E. D. Talbert

April 17, 1963

E. D. Talbert, OME Auditor

Idm-E598 Sunshine Mining Company DMEA-3098

STATUS OF PROJECT, SCOPE OF REVIEW
AND REASONS THEREFOR

This contract provides that the Operator, or its successor in interest, shall pay to the Government a percentage royalty on all minerals produced from the land thereunder. The land consists of 8 unpatented claims located in secs. 7, 8, and 12, T. 4 N., R. 13 and 14 W., M.P.M., Storm Lake mining district (a/k/a Silver Hill mining district). At the time the contract was executed the Operator was in possession by virtue of a March 24, 1953, agreement with James H., Marjeria H., William E., Regina, and John T. Maguire, part owners, and Mines Prospecting & Exploration Company, lessee-purchaser under an August 4, 1952, agreement with William Gallagher. In consideration of the contract, as amended, an Owner's Consent to Lien was executed on September 28, 1954, by the Mines Prospecting & Exploration Company, William Gallagher, and James H. Maguire for himself and as attorney-in-fact for the other Maguires. The exploration contract contains the so-called "abandonment" provision.

Exploration work under the contract was discontinued in January 1955 and the Operator abandoned the property in March 1955. No termination agreement was executed due to the Operator's refusal to sign such an agreement incorporating a provision that the Operator, as principal if the producer or as surety if not the producer, should pay the Government's percentage royalty.

During the exploration period approximately 245 tons of ore (averaging about 5 ounces of silver and 0.5% tungsten trioxide) were mined by the Operator, milled by the Contract Milling Company at North Butte, and sold to Mineral Recovery and Engineering Company for upgrading. Approximately 200 tons of exploration rock (averaging about 0.2% tungsten trioxide) were left stockpiled near the shaft.

During the latter part of 1955 Seymour Standish, 814 Forest Avenue, Evanston, Illinois, leased four of the claims and Gunnar S. Johnson, Box 775, Anaconda, Montana, leased the other four. Mr. Standish apparently dropped his lease in 1956, but Mr. Johnson milled 2,974 lbs. of 60.82 WO_3 from about 740 tons of ore. The sale of this production, as well as that during the exploration period, is covered by a Report of Royalty Review dated August 25, 1959.

Examinations of the property and inquiries by DMEA and OME regional representatives found the property inactive from late 1955 through

September 8, 1959, except for some diamond drilling by Mr. Johnson during 1957. In an April 8, 1963, reply to a MMR Form 63 inquiry, James H. Maguire, Box A34, Grants, New Mexico, stated "To the best of my knowledge there has been no production in that area. The ore body was too low grade for the lower price of tungsten".

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) The files indicate that the property has been inactive during the period covered by this review;

(2) Prior sales of production have been accounted for and proper royalty thereon paid; and

(3) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

So. 157 Howard Street
Spokane 4, Washington
April 29, 1963

E... COPY
O. M. E.
RECEIVED MAY 2 1963
DATE
800

Memorandum

To: Chief, Fiscal Section, Division of Administrative Services, Office of the Secretary, Washington 25, D. C.

From: Acting Field Officer, Region I

Subject: DMEA-3098 (Tungsten)
Sunshine Mining Company
Tungstar Group (Tarloch Group)
Deer Lodge and Granite Counties, Montana
Contract Idm-E598

There is enclosed a Report of Royalty Review dated April 17, 1963, covering the subject contract for the period August 1, 1959, through April 8, 1963.

One copy of the report has been retained for the Spokane Office files. The report is for record purposes only, and no copy was provided for the Operator.

D. R. MacLaren

Enclosure

DRMacLaren:my

cc: OMM(2)
CAAA
CFF

Reading copies to:
Nolan
McKelvey

April 17, 1963

Memorandum

To: Acting Field Officer, Region I

From: E. D. Talbert, Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: DMRA-3095 (Tungsten)
Sunshine Mining Company
Tungstar Group (Tarloch Group)
Deer Lodge and Granite Counties, Montana
Contract Idm-K598

The original and one copy of a Report of Royalty Review covering the subject contract are enclosed. If you concur in the facts stated therein, please make the following distribution:

(a) Original to the Fiscal Section, Division of Administrative Services, Office of the Secretary, U. S. Department of the Interior, Washington 25, D. C.; and

(b) One copy for your files.

This Report of Royalty Review is made for record purposes only; therefore, no copy for the Operator is provided.

As evidence of your concurrence, a copy of your memorandum transmitting the original report to the Fiscal Section should be furnished this Division. If for any reason you do not concur, both copies of the report should be returned to this Division with your comments.

Enclosures

EDTalbert/ama 4-17-63

cc:
Docket
Director's Reading File
CA & A Division
Fiscal Section

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Division of Minerals, Office of Minerals Exploration, Washington, D. C., pertaining to Contract No. Idm-E598, Docket No. DMEA-3098 (tungsten), dated September 14, 1953, with:

Sunshine Mining Company
738 Peyton Building
Spokane 1, Washington

for the purpose of determining the amount of royalty due the U. S. Government on sales of minerals from property referred to as Storm Lake Tungsten Prospect located in Deer Lodge and Granite Counties, Montana, during the period September 14, 1953, through July 31, 1959.

A certification of discovery or development was issued on August 26, 1955, and, in accordance with Article 6 of the contract as amended by Annex II, royalty is payable on all minerals mined or produced from the land described in Article 2 of the contract for a period of 10 years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review in lieu of final cost audit dated September 6, 1955, indicated accepted costs under the exploration contract amounting to $44,927.80 with the Government's contribution, on a 75 percent basis, being $33,695.87.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) Both the Operator's and the Field Team's final reports pertaining to this project state that all production during the exploration period has been reported and proper royalty paid to the Government;
(2) The inspecting engineer's report for the 6 months period ended June 30, 1957, indicates that all production by a subsequent lessee of the property has been reported and the royalty has been paid;
(3) Subsequent reports by representatives of the Field Team, Region I, state that the property has been inactive since June 30, 1957; and
(4) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

The review established the total sales of minerals to be $8,418.34. Royalty due the Government at the contract rate of 5 percent is $420.92. The royalty paid and balance due are as follows:

Total Royalty Due	$420.92
Total Royalty Paid	420.92
Balance of Royalty Due	$ -0-

C. E. Fisher

August 25, 1959

C. E. Fisher, OME Auditor

MME Form 22
April 59

DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration

CHECK SHEET OF EXAMINING ENGINEER

Operator's Name Sunshine Mining Company

Address 738 Peyton Building

Spokane, Washington

Exploration Contract No. Idm-E598 Docket No. DMEA-3098

		Check One Yes	Check One No.
1.	(a) Does the Operator stockpile ore subject to royalty repayment?		X
	(b) If so, is segregation and identification procedure adequate?		
2.	(a) Does Operator commingle production subject to DMEA or OME royalties with exempt production?		X
	(b) If so, do you consider the allocation of the commingled production equitable?		
3.	(a) Does the Operator stockpile mine or mill rejects (low grade ore, tailing, middlings, etc.) that may have potential value within the royalty payment period?		X
	(b) If so, are adequate records maintained on such material to protect the Government's interest?		
4.	Do you consider the assay controls in effect are adequate?	X	
5.	Do you consider that the manner of disposing of production gives the Government its fair royalty returns?	X	
6.	Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA or OME royalties?	X	
7.	Does the Operator buy from or sell to other Operators?		X
8.	Comment on any item 2 (b) to 6 if answer is No.		

Property inactive.

September 8, 1959
Date

S. W. Zoldok
Mining Engineer
S. W. Zoldok

53362

For Certificate of Deposit No. 396, dated April 10, 1957, giving royalty payment of $257.99, see E-41.

For Certificate of Deposit No. 257, dated August 15, 1955, giving royalty repayment of $144.30, see E-115.

E-598

For Certificate of Deposit No. 204, dated February 1, 1955, giving royalty repayment of $18.63, see E-152.

REPORT
OF REVIEW

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

RECEIVED
SEP 12 1955

I have reviewed the Monthly Reports of:

Sunshine Mining Company
738 Peyton Building
Spokane 1, Washington

pertaining to Exploration Project Contract No. Idm-E598, Docket No. DMEA-3098, including amendments Nos. 1 and 2, for the period of September 14, 1953 to August 29, 1955, inclusive, covering a project for the exploration of tungsten ore on properties known as the Storm Lake Tungsten Prospect and the Tarlach Claims, located in Deer Lodge and Granite Counties, State of Montana.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Government representative who visited and examined the project, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

(a) All of the costs incurred were under a contract provision for payment by the Government on the basis of agreed estimated costs of units of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total Cost as billed by Contractor	$44,927.80
Exceptions	None
Total Accepted Cost	$44,927.80

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 Thirty three thousand six hundred ninety five and 87/100 Dollars

--$33,695.87--

is considered valid and proper, provided 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.

C. A. Turner, Auditor

September 6, 1955

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED FEB 21 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1955 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address 700 Boston Building, Spokane, Washington
Contract Amount, $ 61,000.00 Government Participation: 70% Amount, $ 40,010.05

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:						
Bulldozing		3392.00	3392.00		3392.00	3392.00
Cleaning shaft		3230.00	3230.00		3230.00	3230.00
Sinking		12075.00	12075.00		12075.00	12075.00
Long hole drilling		122.40	122.40		122.40	122.40
Drifting	2009.10	17378.90	19388.00	2009.10	17378.90	19388.00
Timbering drift		210.00	210.00		210.00	210.00
Core drilling		6510.40	6510.40		6510.40	6510.40
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2009.10	42918.70	44927.80	2009.10	42918.70	44927.80

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

Date 2-4-55 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

Per [illegible] BY Title Agent

*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:

$ 1506.83

Signature [illegible]
(Authorized Certifying Officer)

Date 2/16/55 Vou. No. 1438
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 598 in accordance with the terms of the contract.

Signature /S/ John D. Bardill Title Metallurgist Date Feb 11, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zelok Title Mining Eng Date 2/11/55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1955

Month of Jan 195 5 Docket No. DMEA 3098 Contract No. Idm-R-298
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 730 Peyton Building, Spokane, Wn.

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	2009.10	84.3	19598.00	524.0		600	
Crosscutting								
Raising								
Shafts Sinking	Ft			12075.00	115.0			
Winzes								
Drilling: Core	Ft			6510.40	1001.6			
Chi Long hole				122.40				
Auger								
Stripping								
Trenching Bulldozing	Hr			5392.00				
Test Pits								
Roads and Trails								
Rehab. SHFT.	Ft			3230.00				
TOTAL DISTRIBUTED COSTS		2009.10		44927.80				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2009.10		44927.80				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 2-4-55 Operator BY

Per J. W. C. Title Agent

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

Sunshine Mining Co.
Tungsten Division
Stone Lake Project
Salesville, Montana

Docket No. DMA 3098
Contract No. Idm-[illegible]-598
February 7, 1955

Narrative Report of Operations
January, 1955

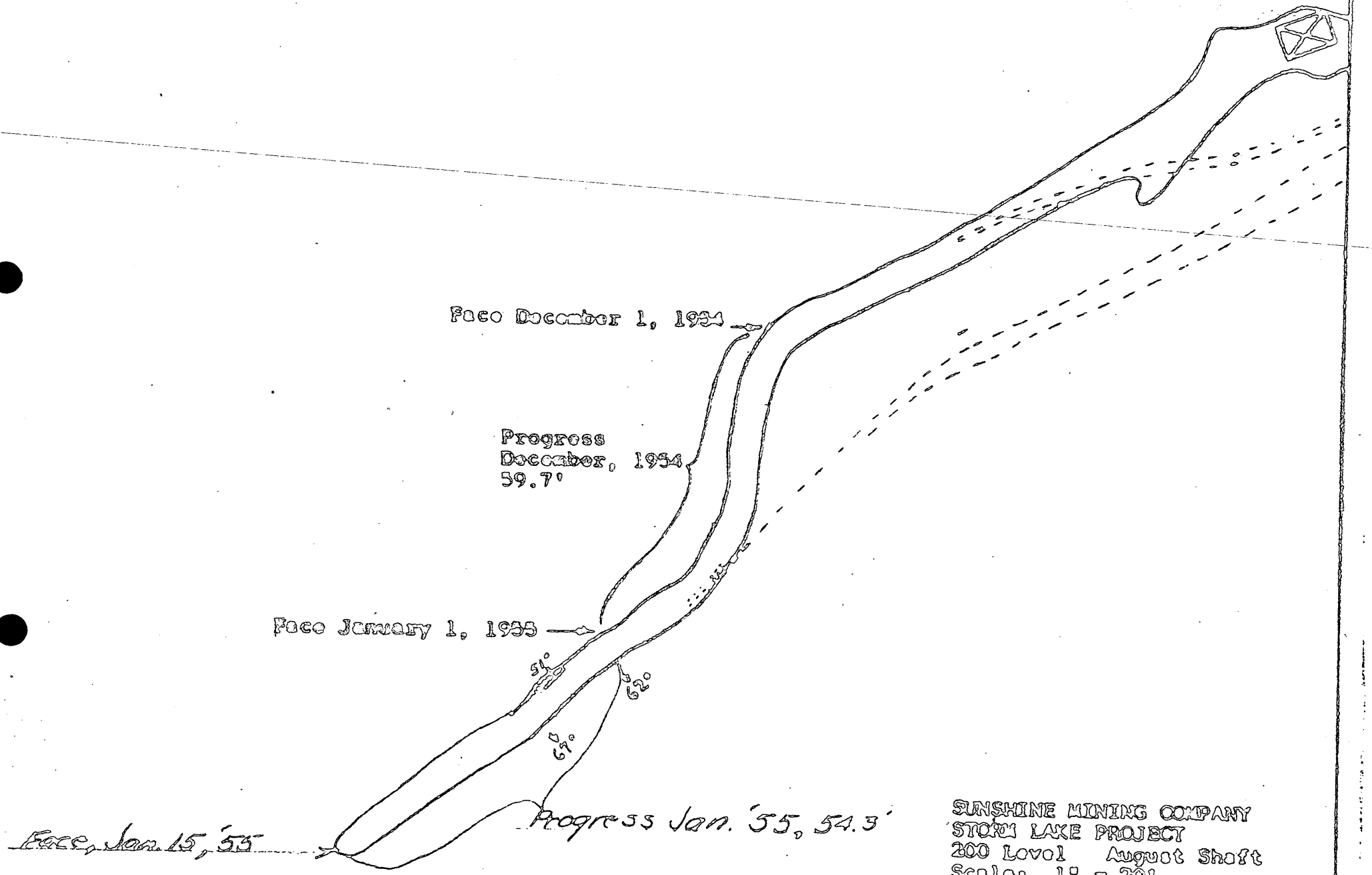
The west heading 200 level was advanced 54.3 feet on the fault-dike structure. Mineralization consists of a few scheelite bearing stringers in the dike and footwall of the dike. The heading is barren. Work in the heading was stopped on January 15.

Work was resumed on 201 raise. At the end of the period, the face of the raise was 44 feet above the drift sill. The structure is 4.5 feet wide with good walls. Mineralization is spotty; broken rock from the raise averages about 0.3 % WO3.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY JWC

John W. Cole
Superintendant



SUNSHINE MINING COMPANY
STORM LAKE PROJECT
200 Level August Shaft
Scale: 1" = 20'
DMEA Docket No. 3098
Contract No. Idm-E-598

Form MF-134 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1955 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $ 61,355.00 Government Participation 75 % Amount, $ 45,016.25

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:						
Bulldozing		3392.00	3392.00			
Cleaning		3230.00	3230.00			
shaft						
Sinking		12075.00	12075.00			
Long hole		122.40	122.40			
drilling						
Drifting	2208.90	15170.00	17378.90	2208.90		
Timbering						
drift		210.00	210.00			
Core						
drilling		6510.40	6510.40			
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2208.90	40709.80	42918.70	2208.90	40709.80	42918.70

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

Date 1-11-55 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

Per John W. Cole BY Title Agent

*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:

$ 1656 68

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

Date 1/26/55 Vou. No. 1421

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-598 in accordance with the terms of the contract.

Signature /S/ John D. Bardill Title Metallurgist Date 1-24-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Eng. Date 1-24-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

RECEIVED

Month of Dec 1955 Docket No. DMEA 3098 Contract No. Idm-E-598

Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten

Address 736 Peyton Building, Spokane, Washe

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	2208.90	59.7	17588.90	469.7		600	
Crosscutting								
Raising								
Shafts Sinking	Ft			12075.00	115.0			
Winzes								
Drilling: Core	Ft			6510.40	1001.6			
Chur long hole				122.40				
Auger								
Stripping								
Trenching Bulldozing	Hr			3392.00				
Test Pits								
Roads and Trails								
Rehab. shaft	Ft			3230.00				
TOTAL DISTRIBUTED COSTS		2208.90		42918.70				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2208.90		42918.70				

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

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 1-11-55 Operator BY

Per JWC Title Agent

John W. Cole

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

Docket No. DMEA 3098
Contract No. Idm-E-598
January 11, 1955

Narrative Report of Operations
December, 1954

The west heading 200 level was advanced 59.7 feet. The vein-fault-dike structure was intersected and followed for 25 feet. The vein consists of a few stringers of scheelite bearing quartz on the fault and footwall of the dike. The character of the dike rock appears to be changing; it contains a few inclusions of granite.

A lot containing 240 tons of development ore was milled at a mill in Butte during the first part of the months Approximately 83 units of WO3 were recovered in products that require additional treatment.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY JWC

John W. Cole
Superintendant

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [illegible], 1954 Docket No. DMEA [illegible] 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:						
Bulldozing		6598.00	6598.00			
Cleaning [illegible]		8830.00	8830.00			
Shaft [illegible] ing						
Sinking [illegible]		18075.00	18075.00			
Long hole		108.00	108.00			
drilling [illegible] Supervision:						
Drifting [illegible]		10170.00	10170.00			
Timbering [illegible]		210.00	210.00			
drift [illegible] al Services						
Core [illegible] g Mat'ls. and Supplies:						
drill [illegible]	1090.00	4020.40	5110.40			
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1090.00	50010.40	50709.00	169.65	39019.15	[illegible]

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

Per [illegible] Title [illegible]

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

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

(Instructions on reverse)

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

$ 1267 99

Signature [illegible]
(Authorized Certifying Officer)

Date 10/23/54 Vou. No. 1391
(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. E598 in accordance with the terms of the contract.

Signature /S/ John D. Bardill Title Metallurgist Date 12/20/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zeldok Title Mining Eng. Date 12/20/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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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 MP-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 [illegible] 1954 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]

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

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

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

REMARKS:

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

(Instructions on reverse)

(For Government use only)

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

Storm Lake Project

SUNSHINE MINING COMPANY--DIAMOND DRILL LOGS

D.D.H. No. 5 | Tarlach Claim | N 20 W---Bearing

Depth--260.1

Start--11/2/54 | Angle drilled-- -57

Finish--11/15/54 | Formation--Ls and Qtz

Logged by--J. Cole | Date: 11/17/54

Footage		Core		Description
Interval	Feet	Feet	%	
0-9.0	9.0			Ax core Crys. Ls
9.0-14.3	5.3	4.8	96	Massive Crys. Ls to 13.5 13.5-14.3 Clay
14.3-27.0	12.7	4.1	32	Probable dike 14.3-14.7 Mass. Ls.
27.0-44.8	17.8	10.4	58	White Crystalline Ls
44.8-55.7	10.9	8.9	82	" " "
55.7-61.8	6.1	3.3	54	Wh. Crys. Ls to 58.0 58.0-61.8 Prob. Silicified Ls with Des. Pyrite
61.8-70.7	8.9	2.5	28	Br. to Bl. Sil. Ls with pyrite to 64.0 then Mass. Wh. ls or Dol.
70.7-75.0	4.3	3.3	78	Mass. Wh. Dol.
75.0-91.7	16.7	5.2	31	Mass. Wh. Ls and Sil. Ls some pyrite
91.7-122.0	30.3	19.5	64	Mass. Wh. Ls
122.0-132.0	10.0	8.0	80	Mass. Wh. Ls 1/4" calcite stringers with Sch. at 126.2 and 126.6
132.0-140.8	8.8	3.3	38	Mass. Wh. Crys. Ls
140.8-151.5	10.7	10.2	95	0-2.0 Crys. Ls. Limonite stain -0.05-0.1' from 140.8 good Sch Mineral- ization 2.0-4.6 Mass. Crys. Ls 4.6-7.3 Iron stained altered Ls 0.1' good Sch. at 5.6' 7.3-10.2 Wh.Crys. Ls.
151.5-182.0	30.5	25.0	82	Mass. Wh. Crys. Ls
182.0-187.0	5.0	1.5	30	" " " "
187.0-191.4	4.4	3.3	75	0-2.0 Crys Ls 2.0-3.3 Lim. Stained Ls, Spot Sch at 3.0
191.4-196.5	5.1	4.4	86	Crys. Ls. Lim. stains in bands.
196.5-201.5	5,0	3.7	74	" " " " " "
201.5-207.0	5.5	5.3	97	" " " " " " Spot of Sch. at 2.9
207.0-212.0	5.0	4.0	80	Crys. Ls limonite banding Spots Sch. at 0.8 and 1.8'
212.0-217.0	5.0	3.7	74	Altered Mass. Ls, vugs at 1.3'
217.0-220.5	3.5	0.2	6	Sandy dolomite
220.5-224.9	4.4	2.6	59	Mass. Wh Ls some banding
224.9-228.9	4.0	2.5	57	Do Minor Sch at 2.0'

Footage		Core		Description
Interval	Feet	Feet	%	
228.9-232.8	3.9	2.6	67	Banded Ls looks weathered Sch specks 0.3 to 1.6'
232.8-236.2	3.4	1.5	44	Banded weathered Ls some Qtz & Calcite
236.2-241.4	5.2	2.2	43	" " " 0.05' calcite with minor sch. at 1.0
241.4-243.7	2.3	0.25	10	Qtz with Sch. Est 1.0% WO3
243.7-246.7	3.0	0.55	18	Qtz to 0.15' limonite st ls to end
246.7-249.8	3.1	0.3	10	Vuggy siliceous limonite resembles gossan Minor specks Sch. Best Sch 2.3-2.65 est. 0.5% WO3
249.8-254.6	4.8	2.9	60	0-2.6 Quartz 2.6-2.9 siliceous vein matter
254.6-260.1	5.5	2.3	42	0-0.4 end silicification 0.4 to 2.3 greenish colored altered Ls possibly RL formation

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

Docket No. DMEA 3098
Contract No. Idm-E-598
December 15, 1954

Narrative Report of Operations
November, 1954

Drilling of the Tarlach structure was completed during the period. Hole 5 was started on November 4 and completed November 15. Log and sections of the hole are attached. The structure was intersected as planned. Mineralization appeared to be about the same as at the outcrop.

Long hole drilling of the walls of the August vein on the 200 level was completed. Tungsten ore was encountered in the hanging wall of the west drift. Apparently the west drift was driven on a footwall split of the vein. The face of the drift will be extended as a crosscut to the vein and the drift extended on the vein.

JWC

John W. Cole
Superintendent

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

Budget Bureau No. 42-R1036.5

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

Month of Sept-Oct., 1954 Docket No. DMEA 5098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $61,355.00 Government Participation: 75 % Amount, $45,016.25

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:						
Bulldozing		3392.00	3392.00			
Cleaning		3230.00	3230.00			
shaft						
Sinking		12075.00	12075.00			
Long hole		122.40	122.40			
drilling						
Drifting		15170.00	15170.00			
Timbering		210.00	210.00			
drift						
Core						
drilling 741.5' @ 6.50	4819.75		4819.75	4819.75	-0-	4819.75
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	4819.75	34199.40	39019.15	4819.75	34199.40	39019.15

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

Date Nov. 1, '54 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

BY

Per [signature] Title Agent

*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:

$ 3614 81

Signature [signature] (Authorized Certifying Officer)

Date 11/8/54 Vou. No. 1349

(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. E598 in accordance with the terms of the contract.

Signature /s/ John D. Bardill Title Metallurgist Date Nov 8/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W. Goldich Title Mining Engr Date 11/8/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept-Oct 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Washington

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	Ft.			15,380.00	410		600	
Crosscutting								
Raising								
Shafts Sinking	Ft			12,075.00	115			
Winzes								
Drilling: Core	Ft	4819.75		4,819.75	741.5		2500	
Churn Long hole	Ft			122.40				
Auger								
Stripping								
Trenching Bulldozing	Hr			3,392.00				
Test Pits								
Roads and Trails								
Rehab. Shaft	Ft			3,230.00				
Total Distributed Costs		4819.75		39,019.15				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		4819.75		39,019.15				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date Nov. 1, '54 Operator BY

Per Jwc Title Agent

Remarks:

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

(Instructions on reverse)

(For Government use only)

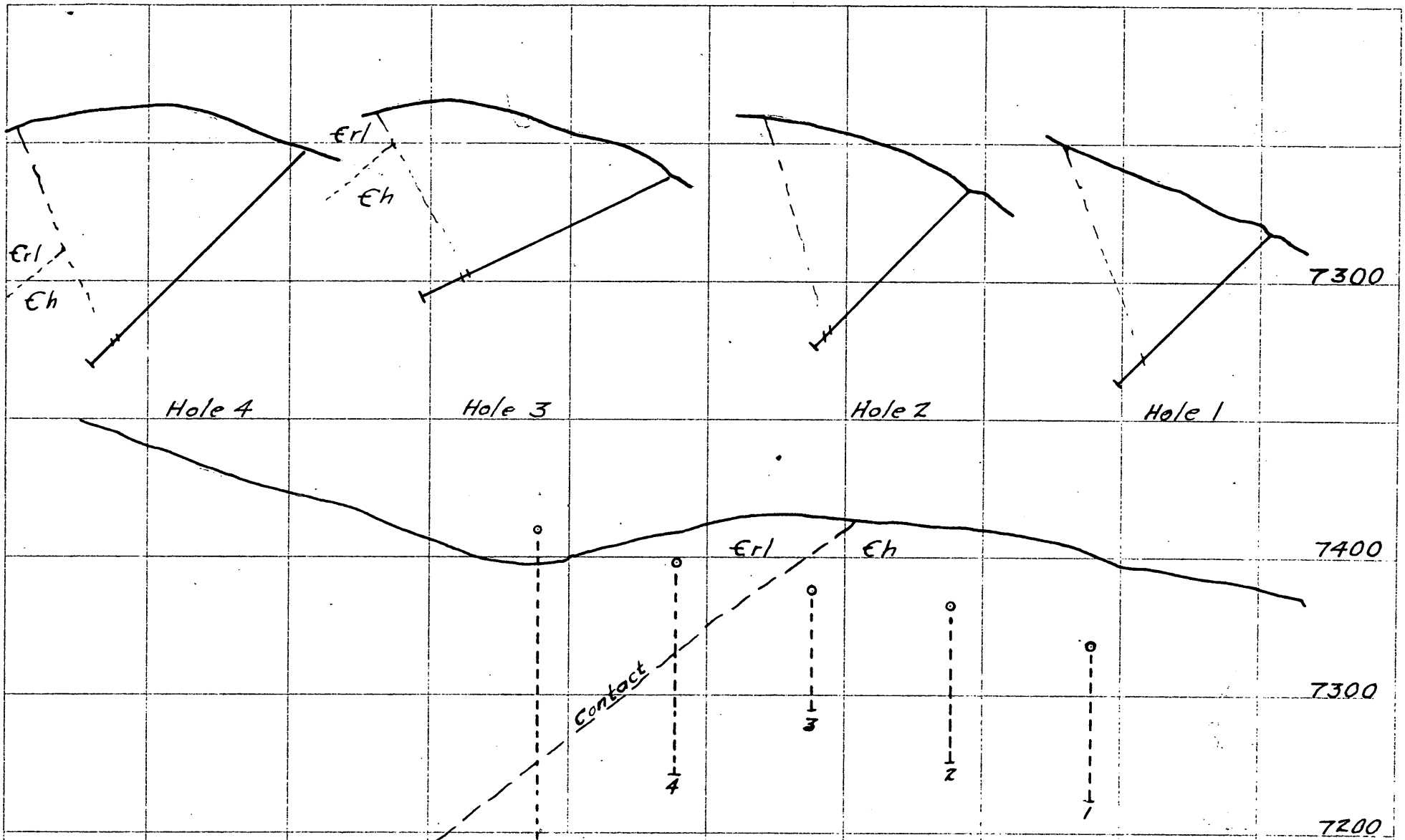
INSTRUCTIONS

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

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

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

GPO 83-38475



Scale: 1" = 100'

STORM LAKE TUNGSTEN

DMEA No. 3098

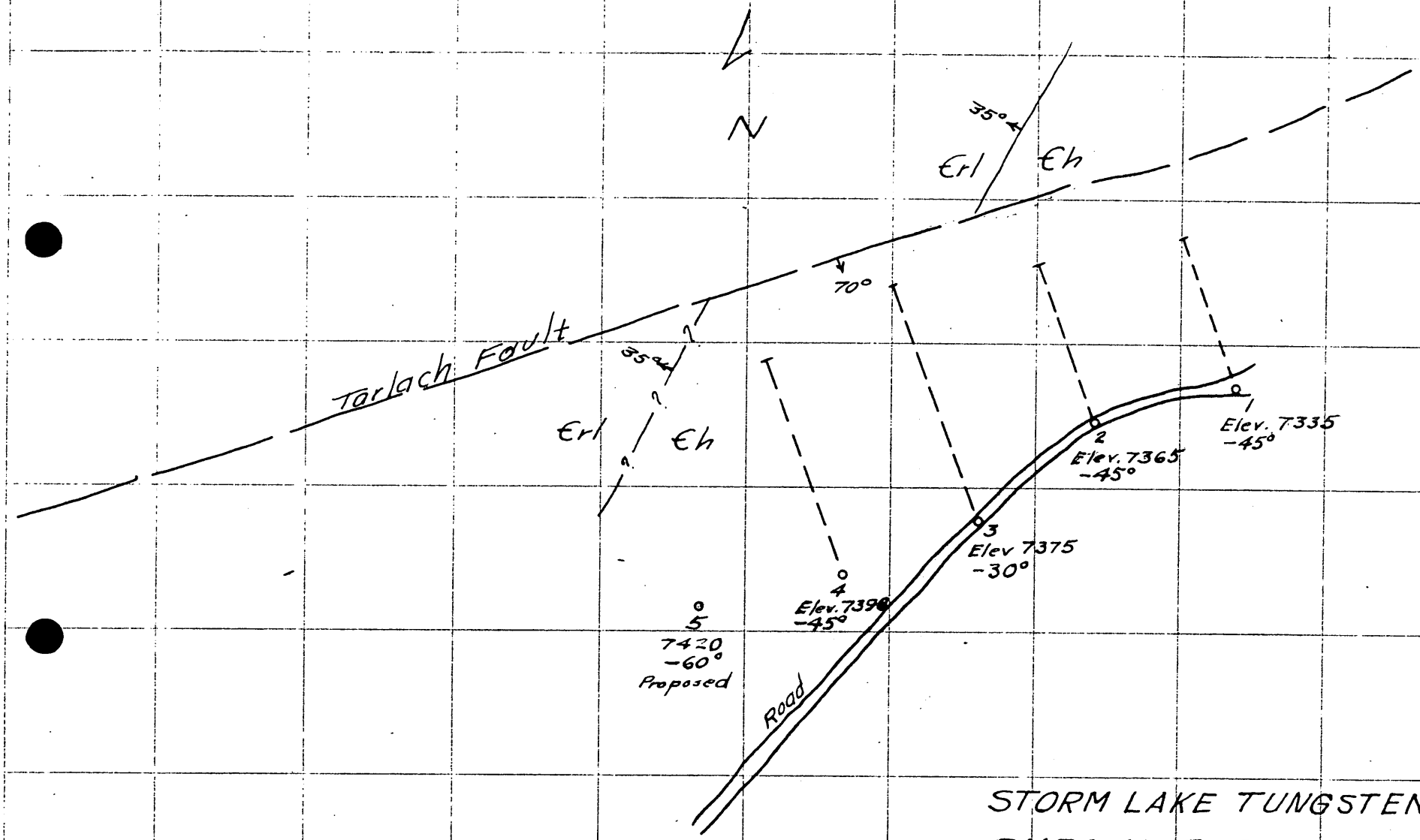
Core Drill Sections

Tarlach Claim

Date: 10-31-54

Engineer: JWC

"ALBANENE" No. 195M K&E CO., N.Y.
MADE IN U.S.A. PAT. 01.9



Scale: 1" = 100'

STORM LAKE TUNGSTEN
DMEA No. 3098
Core Drilling Plan
Tarlach Claim
Date: 10-31-54
Engineer: JWC

"ALBANENE" NO. 1056A K.A.L.CO., N.Y.
REG. U.S. PAT. OFF.

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

Docket No. DMEA 3098
Contract No. Idm-E-598
October 31, 1954

Narrative Report of Operations
September-October, 1954

A 3-compartment raise from the 200 level on the high grade streak in the East drift was started on September 27. The face of the raise was 20 feet above the sill at the end of the period and stoping has been started west of the raise. Long hole drilling of the foot and hanging walls was started but was interrupted until different steel can be obtained. 200 tons of ore was hauled to Butte for a mill test.

Core drilling of the Tarlach vein was started on September 4. Four holes, totaling 741.5 feet, had been drilled by October 20 when drilling was interrupted until results are evaluated. Quartz with some scheelite was intersected by all holes. One split core sample representing 5.6 feet of hole 4 assayed 0.308 percent WO3. Apparently the mineralized shoot rakes west under the Hasmark-Red Lion contact. Many cavities(probably sand filled) were encountered in the drilling. Water return was maintained with difficulty. Sludge samples were panned. Core recovery was fair through the ore zones. Logs of the holes and sketches showing locations and sections are attached.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY J W C

John W. Cole
Superintendant

COPY

STORM LAKE PROJECT

Sunshine Mining Company - Diamond Drill Logs

D.D.H. No. 1 Tarlach N 20 W Bearing

Depth 158.6

Start 9-4-54 Angle Drilled - 45

Finish 9-14-54 Formation Ls and Qtz

Logged by J. Cole Date: 10-28-54

Footage		Core Ft	Core %	Description
0-4.9	4.9	0	0	Ax
4.9-126.8	121.9	38.0	31.0	----Soft, white to gray dolomite. Some cavities or sand streaks.
126.9-130.2	3.4	3.4	100.0	----Vein Qtz. 127.5-129.5, crystal scheelite at 129.5
130.2-141.8	11.6	9.6	82.0	----Brown to gray vuggy Ls.
141.8-158.6	16.8	16.8	100.0	----Light brown Ls.

COPY

STORM LAKE PROJECT

Sunshine Mining Company - Diamond Drill Logs

D.D.H. No. 2 Tarlach N 20 W Bearing
Depth 161.9

Start 9-15-54 Angle Drilled -45

Finish 9-20-54 Formation Ls and Qtz

Logged by J. Cole Date: 10-28-54

Footage		Core Ft	Core %	Description
0-11.0	11.0	0		Dol.
11.0-116.7	105.7	70.0	66.3	--White to gray fresh dolomite
116.7-119.2	2.5	0.2	8.0	--Soft altered dolomite
119.2-125.9	6.7	5.7	85.0	--Brown altered dol.
125.9-133.1	7.1	5.8	82.0	--Brownish ls, minute hematite crystals scheelite crystal at 125.9
133.1-136.6	3.5	2.0	57.0	--Altered ls and vein calcite, crystal scheelite at 134.8
136.6-144.8	8.2	5.3	64.7	--Ls with Qtz stringers. Scheelite from 144.0-144.8. Est. 1.0% WO3
144.8-150.3	5.5	4.6	83.8	--Ls with Qtz stringers. Crystals scheelite at 149 and 150.
150.3-154.9	4.6	4.0	87.0	--Ls with some Qtz
154.9-161.9	7.0	4.8	68.6	--White soft ls. Dark streak 160-161, prob. diorite dike with calcareous inclus.

COPY

STORM LAKE PROJECT

Sunshine Mining Company - Diamond Drill Logs

D.D.H. No. 3 Tarlach N 20 W Bearing

Depth 200.0

Start 9-21-54 Angle Drilled -30

Finish 10-19-54 Formation Ls and Qtz

Logged by J. Cole Date: 10-28-54

Footage		Core Ft	Core %	Description
0-4.2	4.2			
4.2-140.0	135.8	78.0	57.5	White, pure dolomite
140.0-156.0	16.0	5.0	31.0	Do (streak iron and scheelite at 143')
156.0-159.4	3.4	2.8	82.0	Silicified dolomite, Qtz stringers
159.4-164.2	4.8	4.8	100.0	Vein Qtz with streaks and spots ls. Scheelite in stringers and spots Lamp est. less than 0.1%
164.2-169.3	5.1	1.8	35.0	Altered ls.
169.3-171.0	1.8	0.0	0	Sand
171.0-174.7	3.7	2.4	65.0	Felsite
174.7-177.8	3.1	0.0	0	Sand or cavity
177.8-194.0	16.2	15.0	92.4	Dolomite
194.0-195.0	1.0	1.0	100.0	Felsite
195.0-200.0	5.0	5.0	100.0	Dolomite

Drilling was delayed 9-28 to 10-5 (hole depth 177.8) while equipment was obtained for recovering stuck bit and shell. Also delayed 10-9 to 13 while waiting for equipment.

Cemented hole 141.0-169.3

Reamed hole Ex to Ax 4.0-25.0
25.0-96.0
96.0-115.0
115.0-158.0

Ax to Bx 0-58.8
58.8-70.2
70.2-90.0

STORM LAKE PROJECT

Sunshine Mining Company - Diamond Drill logs

D.D.H. No. 4 Tarlach N 20 W Bearing

Depth 221.0

Start 9-28-54 Angle Drilled -45

Finish 10-5-54 Formation Ls and Qtz

Logged by J. Cole Date: 10-28-54

Footage		Core Ft	Core %	Description
0-15.0	15.0	0.0	0	Ax
15.0-150.5	135.5	72.0	53.0	White dolomite
150.5-151.7	1.2	1.2	100.0	Qtz stringers in dol.
151.7-186.0	28.3	28.3	100.0	White to gray dol.
186.0-190.9	4.9	4.0	82.0	Brown vuggy ls with some calcite minor scheelite in the calcite.
190.9-196.5	5.6	3.0	53.5	Vein Qtz with scheelite. Assay of split core 0.308 WO3
196.5-202.8	6.3	.4	6.4	Brown altered ls and cavity or sand
202.8-206.7	3.9	.5	12.7	Altered Ls
206.7-214.2	7.5	2.5	33.3	Do
214.2-221.0	6.8	6.8	100.0	Fresh ls or dol.

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.

RECEIVED
OCT 18 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Sept., 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name Sunshine Mining Company Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $ 45,100.00 Government Participation: 75 % Amount, $ 33,828.75

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 Contracts:						
Short Form						
Bulldozing		3392.00	3392.00		3392.00	3392.00
Cleaning		3230.00	3230.00		3230.00	3230.00
shaft						
Sinking		12075.00	12075.00		12075.00	12075.00
Long hole		122.40	122.40		122.40	122.40
drilling Supervision:						
Drifting 73' @ $37.00	2701.00	12469.00	15170.00	2701.00	12469.00	15170.00
Timbering		210.00	210.00		210.00	210.00
drift						
Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2701.00	31498.40	34199.40	2701.00	31498.40	34199.40

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

Date 10-4-54 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

Per J W C BY Title Agent

*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:

$ 2025 75

Signature M G P
(Authorized Certifying Officer)

Date 10/14/54 Vou. No. 1317
(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. E598 in accordance with the terms of the contract.

Signature /S/ John D. Burdell Title Metallurgist Date 10/13/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E. Howard Title Mining Engr Date 10/13/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

Defense Minerals ...
OCT 18 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept. 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name Sunshine Mining Company Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	2701.00	73	15170.00	410		600	
Crosscutting								
Raising								
Shafts Sinking	Ft.			12075.00	115			
Winzes								
Drilling: Core Long hole	Ft			122.40				
Churn								
Auger								
Stripping								
Trenching Bulldozing				3392.00				
Test Pits								
Roads and Trails								
Rehab. shaft	Ft			3230.00				
TOTAL DISTRIBUTED COSTS		2701.00		34199.40				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2701.00		34199.40				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 10-4-54 Operator BY

Per John W. Cole Title Agent

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

Docket No. DMEA 5098
Contract No. Idm-E-598
October 4, 1954

Minerals Administration
RECEIVED
OCT 13 1954

Narrative Report of Operations
September, 1954

The East drift, 200 level, was advanced 73 feet. Rock in the heading consists of a 2 to 3 foot diorite dike on the fault structure with occassional quartz-scheelite mineralization on the footwall of the dike. Drift round samples were checked with the gold pan. They are estimated to contain less than 0.1 percent WO_3. Work in the heading was redessed by mutual agreement on September 25 until long prospect holes are drilled in the walls. Sectional drill steel to drill up to 50' holes has been ordered.

In the meantime, a raise has been started on the vein approximately 80 feet east of the shaft.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY JWC

John W. Cole
Superintendant

Form N F-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

Defense Minerals Administration
RECEIVED
OCT - 4 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address &#'738 Peyton Building, Spokane, Wash.
Contract Amount, $ 45,100.00 Government Participation: 75 % Amount, $ 33,828.75

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:						
Bulldozing		3392.00	3392.00			
Cleaning		3230.00	3230.00			
shaft						
Sinking		12075.00	12075.00			
Long hole		122.40	122.40			
drilling						
Drifting 77' @ 37.00	2849.00	9620.00	12469.00			
Timbering 15' @ 6.00	90.00	120.00	210.00			
drift						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2939.00	28,559.40	31,498.40	2939.00	28559.40	31498.40

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

Date 9-13-54 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

Per John W. Cole BY Title Agent

*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:

$ 2204 25

Signature (Authorized Certifying Officer)

Date 9/29/54 Vou. No. 1305
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 598 in accordance with the terms of the contract.

Signature /S/ John D Bardell Title Metallurgist Date 9/28/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 9/28/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 4 1954

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

Month of August 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Washington

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	2939.00	77	12679.00	337		600	
Crosscutting								
Raising								
Shafts Sinking	Ft.			12075.00	115		115	
Winzes								
Drilling: Core Long hole	Ft.			122.40				
Churn								
Auger								
Stripping								
Trenching Bulldozing				3392.00				
Test Pits								
Roads and Trails								
rehabilitating Shft				3230.00				
TOTAL DISTRIBUTED COSTS		2939.00		31498.40				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2939.00		31498.40				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 9-13-54 Operator BY

Per J.W.C. Title Agent

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

Docket No. DMEA 3098
Contract No. Idm-E-598
September 13, 1954

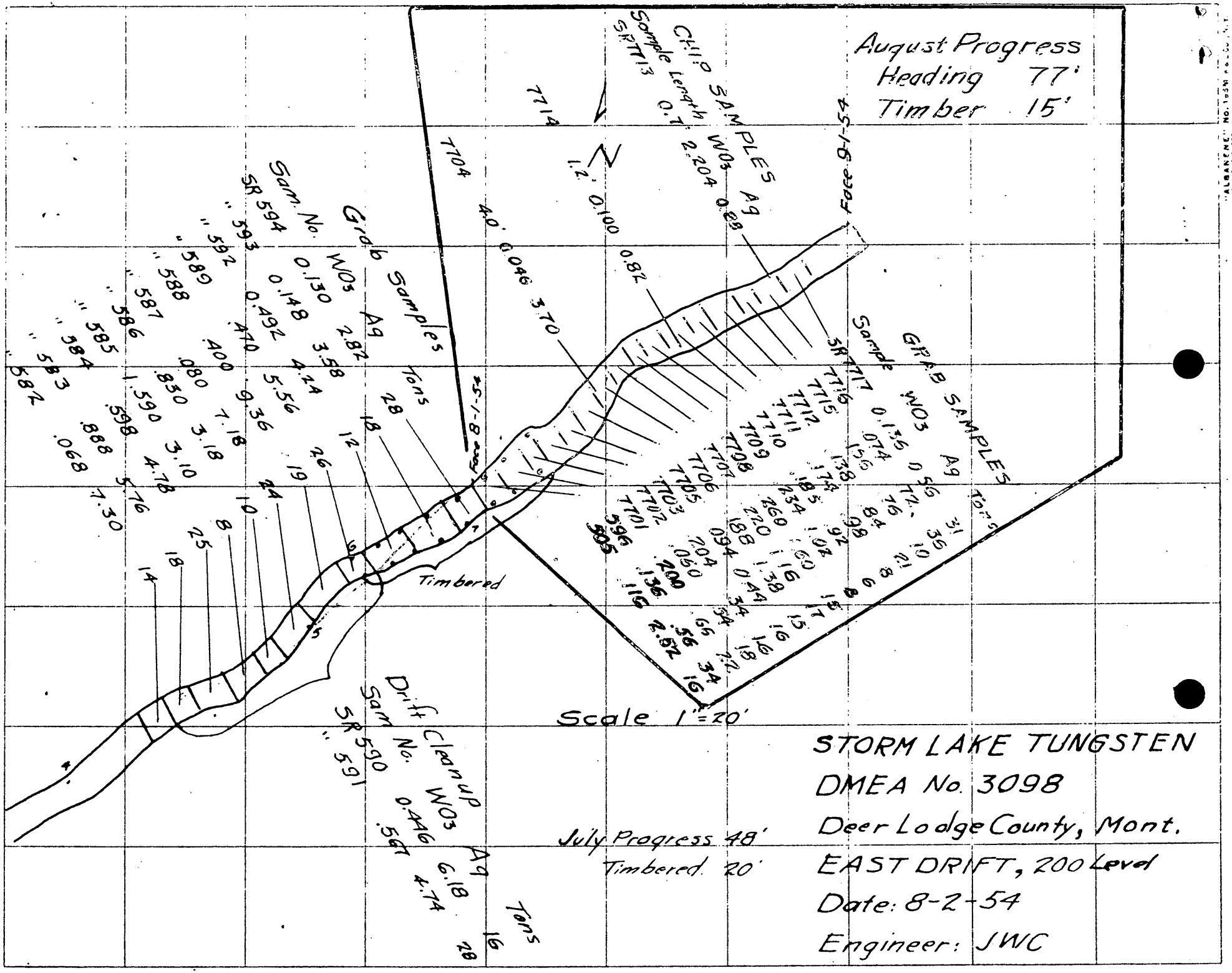
Narrative Report of Operations
August, 1954

The East drift, 200 Level, was advanced 77 feet. Track was laid and the slusher ramp moved ahead 100 feet. Timber was placed along 15 feet of drift.

The structure in the heading is strong. However, mineralization has decreased as shown by analyses on the accompanying sketch.

JWC

John W. Cole
Agent


August Progress
Heading 77'
Timber 15'
Face 8-1-54
Chip Samples
Sample Length
SR 7713
0.7
2.204
WO3
Ag
0.88
7714
7704
1.2' 0.100
0.82
4.0' 0.046
3.70
Face 5-1-8
Grab Samples
Sam. No.
WO3
Ag
Tons
SR 594
0.130
2.82
28
" 593
0.148
3.58
18
" 592
0.492
4.24
12
" 589
.470
5.56
26
" 588
.400
9.36
19
" 587
.080
7.18
24
" 586
.850
3.18
10
" 585
1.590
3.10
8
" 584
.598
4.78
25
" 583
.888
5.76
18
" 582
.068
7.30
14
Timbered
Drift Cleanup
Sam. No.
WO3
Ag
Tons
SR 590
0.446
6.18
28
" 591
.567
4.74
16
Grab Samples
Sample
WO3
Ag
Tons
SR 717
0.135
.56
31
716
.074
.36
715
.156
.10
712
.138
.21
711
.174
.8
710
.185
.6
709
.234
.98
708
.269
.92
707
1.07
706
220
1.60
705
188
1.16
703
.094
1.38
702
.204
0.44
701
.060
.34
596
.200
.54
505
.136
.65
116
.56
.15
2.52
.34
.16
16
.18
.12
Scale 1" = 20'
July Progress 48'
Timbered 20'
STORM LAKE TUNGSTEN
DMEA No. 3098
Deer Lodge County, Mont.
EAST DRIFT, 200 Level
Date: 8-2-54
Engineer: JWC

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July 1954 Docket No. DMEA 3098 Contract Idm-E-598

Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten

Address 738 Peyton Building, Spokane, Wash.

Contract Amount, $ 45,100.00 Government Participation: 75 % Amount, $ 33,828.75

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:						
Bulldozing		3392.00	3392.00			
Cleaning		3230.00	3230.00			
shaft		12075.00	12075.00			
Sinking		122.40	122.40			
Long hole drilling	1776.00	7844.00	9620.00			
Drifting	120.00	--	120.00			
Timbering drift						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1896.00	26663.40	28559.40	1896.00	26663.40	28559.40

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

Date 8-7-54 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

Per [signature] BY Title Agent

*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:

$ 1422 00

Signature [signature] (Authorized Certifying Officer)

Date 8/26/54 Vou. No. 1262

(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. 6598 in accordance with the terms of the contract.

Signature /s/ John D Bardill Title Metallurgist Date 8/16/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W Zoldok Title Mining Engr Date 8/18/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungstn
Address 738 Peyton Building, Spokane, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft.	1896.00	48	9740.00	260		600	
Crosscutting								
Raising								
Shafts Sinking	Ft.			12075.00	115		115	
Winzes								
Drilling: Co Long Hole	Ft.			122.40				
Churn								
Auger								
Stripping								
Trenching Bulldozing				3392.00				
Test Pits								
Roads and Trails								
Rehabilitating Sh	FT Ft			3230.00				
TOTAL DISTRIBUTED COSTS		1896.00		28559.40				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1896.00		28559.40				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 8-7-54 Operator
BY
Per J W C Title Agent

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

Docket No. DMEA 3098
Contract No. Idm-E-598
August 7, 1954

Narrative Report of Operations
July, 1954

The East drift, 200 level, was advanced 48 feet. Track was laid and the slusher moved ahead. Caving rock was encountered along the fault and vein; 20 feet of drift was timbered.

The vein ranges from 4 inches to 3 feet wide with good mineralization. The weighted average of 13 grab samples of 245 tons of broken rock representing 70 feet of drift is 0.448 % WO_3 and 5.29 Oz. Ag per ton. Since the mineralization is confined to a narrow vein, it should be possible to mine selectively considerably higher grade ore than is shown by this average. Results of sampling are shown on the accompanying sketch.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY JWC

John W. Cole
Agent

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

Budget Bureau No. 42-R1036.5

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

Month of June, 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $ 45,100.00 Government Participation: 75 % Amount, $ 33,828.75

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:						
Bulldozing		3,392.00	3392.00		3392.00	3392.00
Cleaning		3,330.00	3330.00		3230.00	3230.00
shaft						
Sinking		12,075.00	12075.00		12075.00	12075.00
Long hole		122.40	122.40		122.40	122.40
drilling						
Supervision:						
Drifting 97' @ 37.0	3589.00	4,255.00	7844.00	3589.00	4255.00	7844.00
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3589.00	23,074.40	26663.40	3589.00	23074.40	26663.40

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

Date 7-9-54 *Payee SUNSHINE MINING CO. ~~TUNGSTEN DIVISION~~

Per John W. Cole BY Title Agent

*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:

$ 2691.25

Signature MAP
(Authorized Certifying Officer)

Date 7/12/54 Vou. No. 1226
(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. E598 in accordance with the terms of the contract.

Signature /S/ John D Bardill Title Metallurgist Date July 14-54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zaldok Title Mining Engr Date 7/14/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft	3589.00	97	7,844.00	212	xxx	600	
Crosscutting								
Raising								
Shafts Sinking	Ft			12,075.00	115			
Winzes								
Drilling: Core long hole	Ft			122.40				
Churn								
Auger								
Stripping								
Trenching Bulldozing				3,392.00				
Test Pits								
Roads and Trails								
Rehabilitating SH.				3,230.00				
TOTAL DISTRIBUTED COSTS		3589.00		26,663.40				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		3589.00		26,663.40				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 7-9-54 Operator BY

Per Jwe Title Agent

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

Docket No. DMEA 3098
Contract No. Idm-E-598
July 9, 1954

Narrative Report of Operations
June, 1954

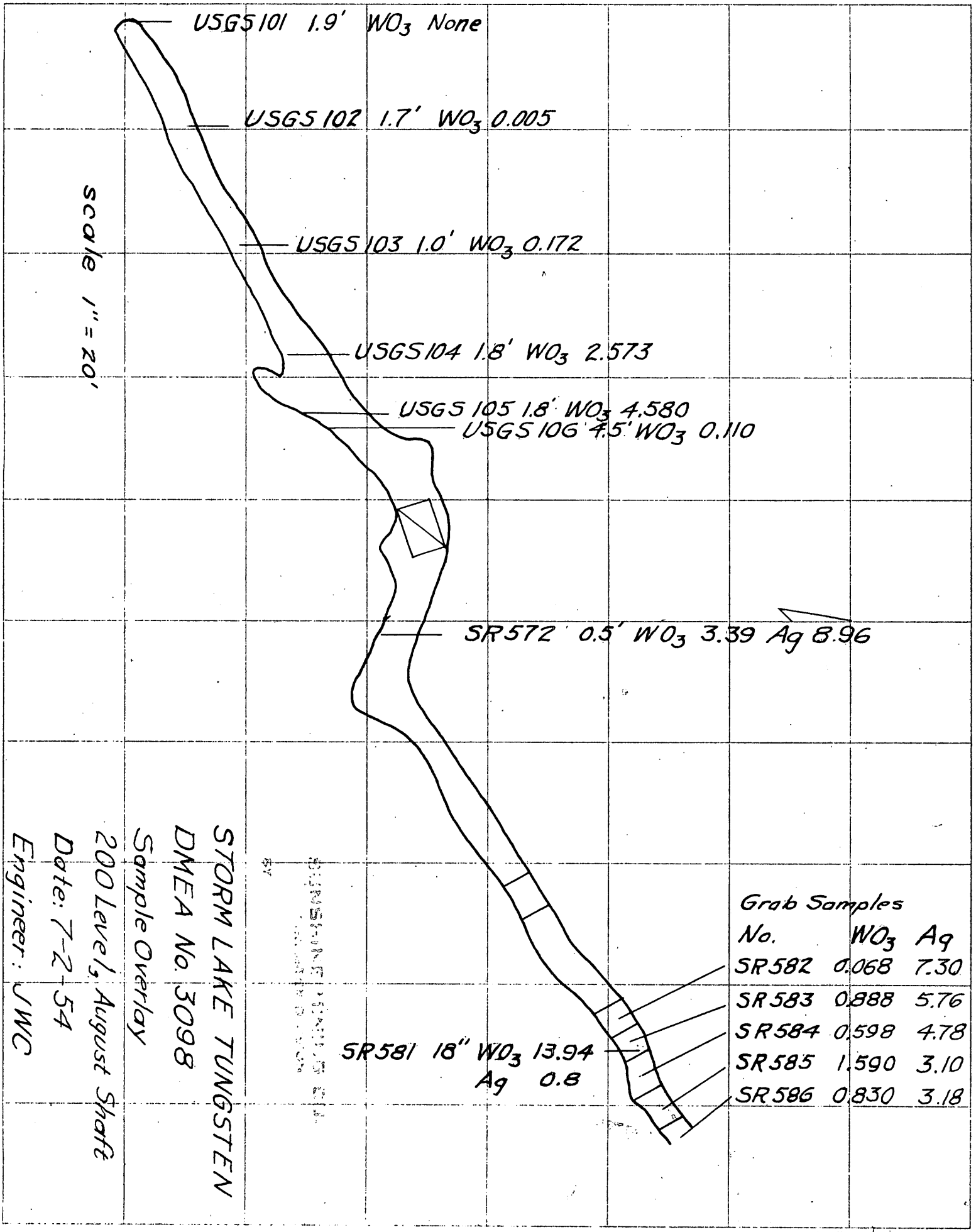
The West drift - 200 level- was advanced 21 feet. The vein pinched out although the fracture continues into the face of the drift.

The East drift -200 level- was advanced 76 feet. Measured form the point of intersection with the fault, the drift follows the fault for 60 feet. At this point, a quartz vein is intersected that probably is the hanging wall extension of the vein followed in the West drift. The vein and both walls are mineralized with scheelite. A soft iron oxide-quartz- scheelite lenz parallels the quartz vein on the footwall side for 21 feet; it is 2 feet wide at the west end and tapers out at the east end. Lamp estimate plus one assay indicate the lenz contains 10 to 15 percent WO3. Results of analyses of 5 grab samples from the drift are shown on accompanying sketch.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY JWC

John W. Cole
Agent



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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals
Address 738 Peyton Building, Spokane, Wash. Tungsten
Contract Amount, $ 45,100.00 Government Participation: 75 % Amount, $ 33,828.75

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:						
Bulldozing		3,392.00	3,392.00			
Cleaning		3,230.00	3,230.00			
shaft						
Sinking		12,075.00	12,075.00			
Long hole		122.40	122.40			
drilling						
Drifting 35' @$37.00	3145.00	1,110.00	4,255.00			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3145.00	19,929.40	23,074.40			

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

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 6-14-54 *Payee

Per J W C BY Title Agent

*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:

$ 2358 75

Signature M D P
(Authorized Certifying Officer)

Date 6/23/54 Vou. No. 1201
(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. E598 in accordance with the terms of the contract.

Signature (S) Stephen W Zoldok Title Mining Engr Date 6/21/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen W Zoldok Title Mining Engr Date 6/21/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	Ft	3145.00	85	4,255.00	105		600	
Crosscutting								
Raising								
Shafts sinking	Ft			12,075.00	115		115	
Winzes								
Drilling: Core Long hole	Ft.			122.40				
Churn								
Auger								
Stripping								
Trenching Bulldozing				3,392.00				
Test Pits								
Roads and Trails								
Rehabilitating shft				3,230.00				
TOTAL DISTRIBUTED COSTS		3145.00		23,074.40				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		3145.00		23,075.40				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 6-11-54 Operator BY

Per [signature] Title Agent

REMARKS:

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

(Instructions on reverse)

(For Government use only)

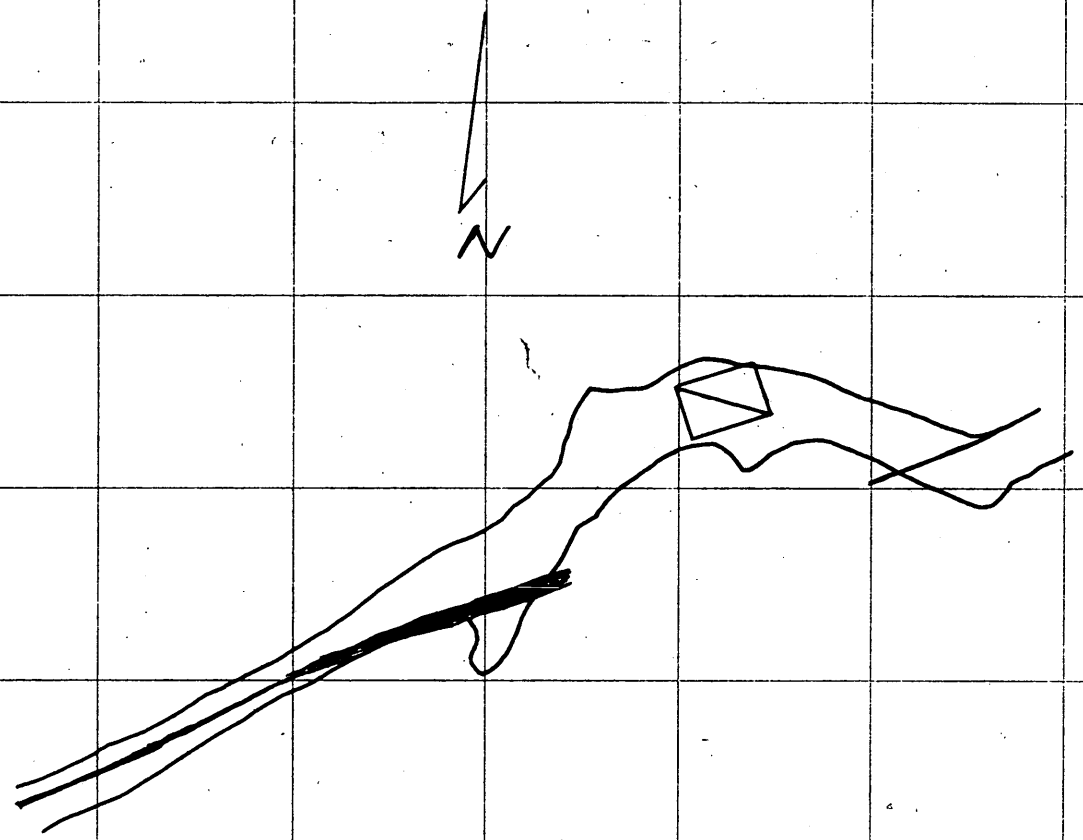
INSTRUCTIONS

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

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

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

GPO 83-38475



SUNSHINE MINING CO.
TUNGSTEN DIVISION

STORM LAKE PROJECT
DMEA 3098
May 1954
200 Level
Scale 20' = 1"
J.W.C.

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

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

June 11, 1954

Docket No. DMEA 5098
Contract No. Idm-E-598

Narrative report of operations
May, 1954

The East drift on the 200 level was advanced 15 feet. The West drift was advanced 70 feet. The East drift intersected a quartz-calcite-scheelite vein where it is faulted off. The vein in the West drift starts about 30" wide. It gradually narrows to 3 " in the face.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY JWC

John W. Cole
Agent

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

Month of April 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $ 45,100.00 Government Participation: 75 % Amount, $ 33,828.75

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:						
Bulldozing		3392.00	3,392.00			
Cleaning		3230.00	3,230.00			
shaft						
Sinking		12075.00	12,075.00			
Long hole		122.40	122.40			
drilling						
(2) Labor & supervision:						
Drifting 80' @ $37.00	740.00	370.00	1,110.00			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	~~740.00~~	~~19189.40~~	~~19,929.40~~	740.00	19189.40	19929.40

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

Date 5-7-54 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

BY

Per Title

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

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:

$ 555.00

Signature (Authorized Certifying Officer)

Date 5/20/54 Vou. No. 1173

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-598 in accordance with the terms of the contract.

Signature /s/ John D. Bardell Title Metallurgist Date May 17-54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W. Zoldok Title Mining Eng. Date 5/19/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1954 Docket No. DMEA 3098 Contract No. Idm-E598

Operator's Name Sunshine Mining Company Minerals Tungsten

Address 738 Peyton Building, Spokane, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting		740.00	20 ft.	1,110.00			600	
Crosscutting								
Raising								
Shafts -sinking				12,075.00			115	
Winzes								
Drilling: ~~Core~~ Long hole				122.40				
Churn								
Auger								
Stripping								
Trenching Bulldozing				3,392.00				
Test Pits								
Roads and Trails								
Rehabilitating Shaft				3,230.00			95	
TOTAL DISTRIBUTED COSTS		740.00		19,929.40				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		740.00		19,929.40				

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 May 18/54 Operator Sunshine Mining Co. Tungsten Division

Per Richard King Title Agent

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

May 10, 1954

Docket No. DMEA 3098
Contranct No. Idm-E-598

Narrative report of operations
April, 1954

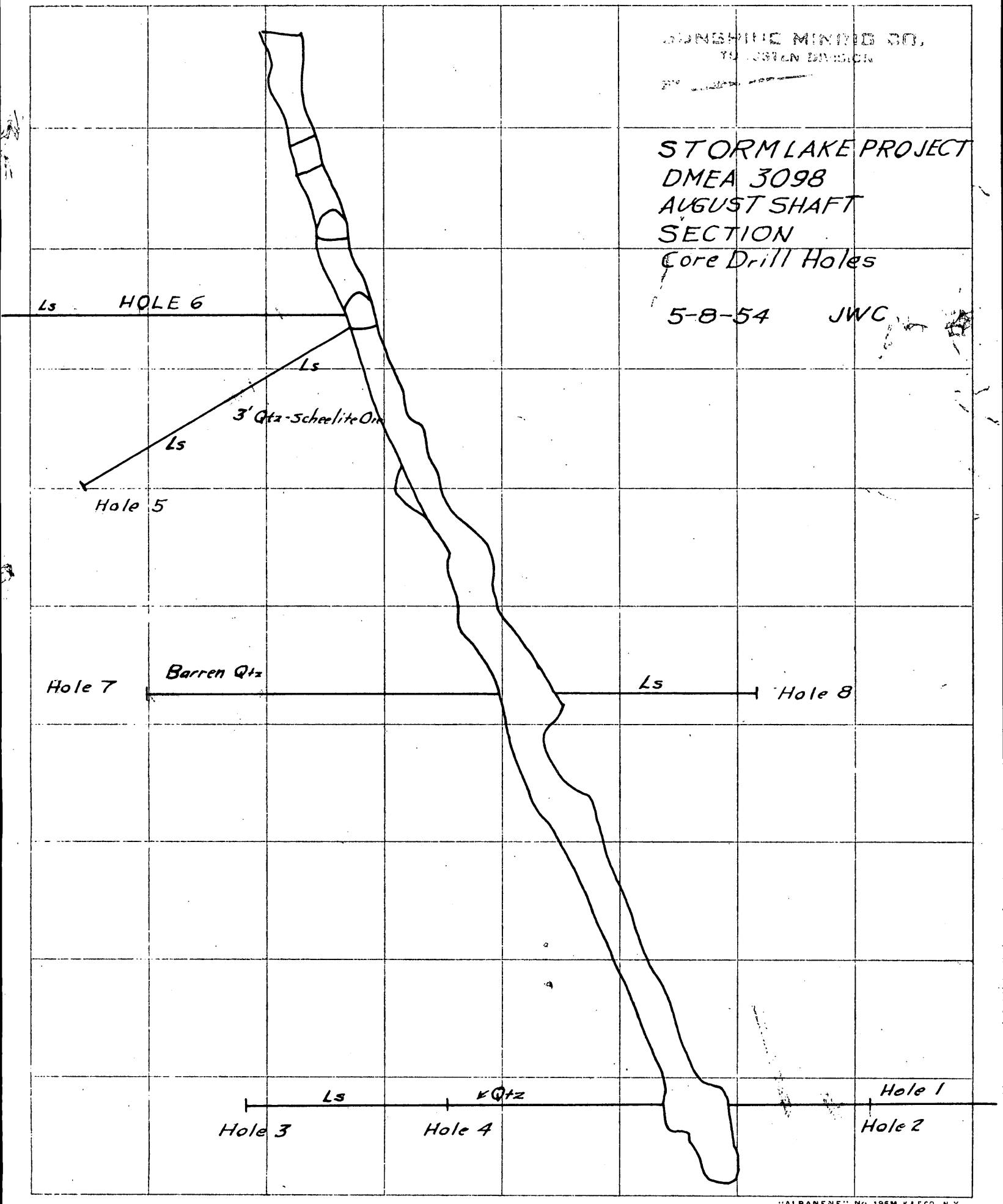
The east drift from the 200 level was advanced 20 feet. Several days delay was caused by collapse of the 200 level bulkhead. The shaft was cleaned and bulkhead replaced. Shaft bucket skids were replaced and realined.

Core drilling was started on May 1 and continued until May 26. Eight holes were drilled from stations in the shaft. Depth of holes ranged from 28.8 to 78.5 feet. Total footage drilled was 425.4 feet. Core recovery approached 100 percent. Loss of water in the holes prevented collection of satisfactory sludge samples. Location of holes and graphic logs are shown on accompanying sketches.

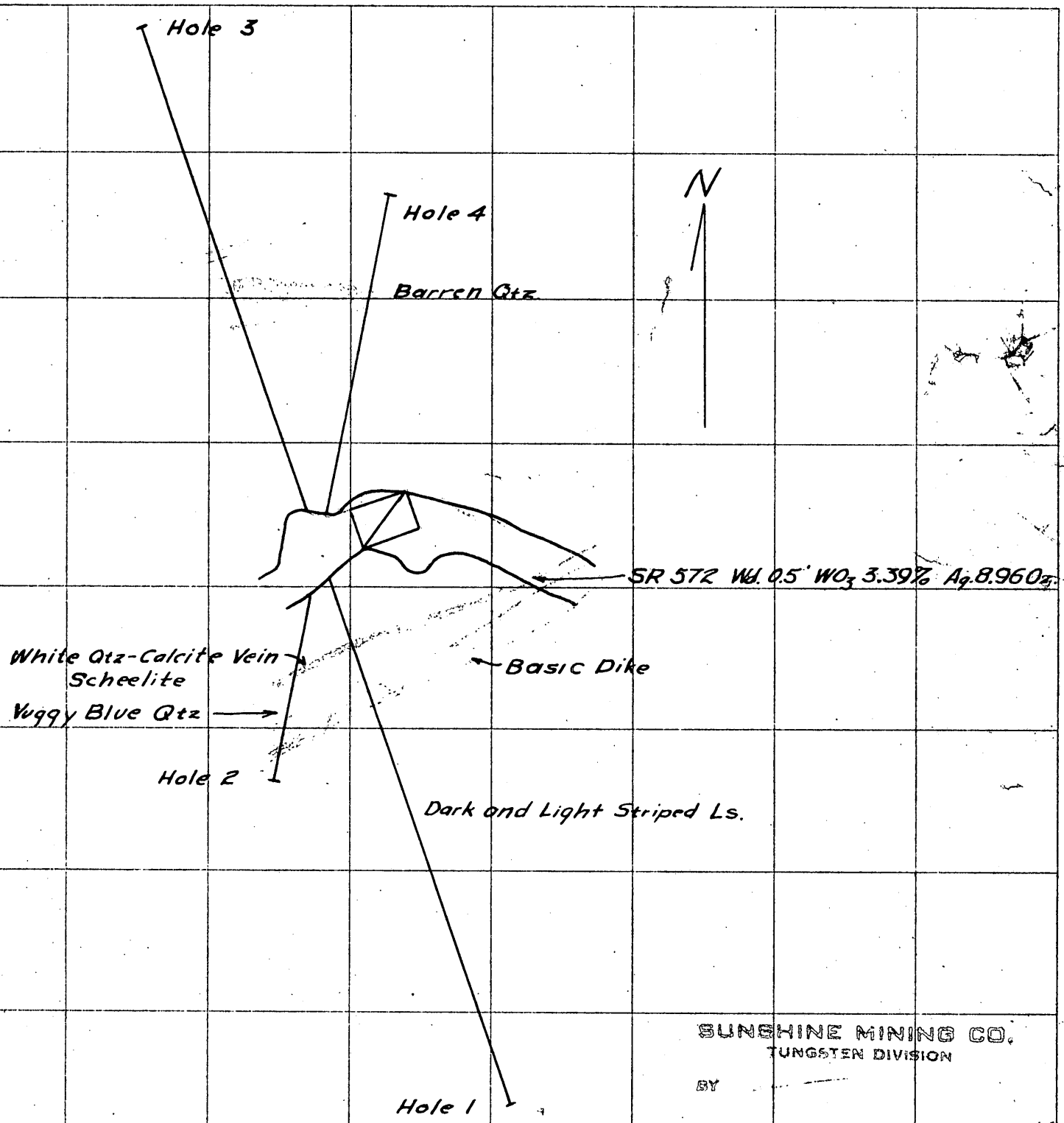
SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY JWC

John W. Cole
Superintendant



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



SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY

Scale: 200' = 1"

STORM LAKE PROJECT
DMEA 3098
AUGUST SHAFT
200 level
Core Drill Holes
Geology
5-8-54 JWC

"ALBANENE" NO. 185M K&E CO., N.Y.
REG. U.S. PAT. OFF

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

W

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $ 45,100.00 Government Participation: 75 % Amount, $ 33,828.75

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:						
Bulldozing		3392.00	3392.00			
Cleaning		3230.00	3230.00			
shaft ng						
Sinking 26.6' @ 105	2793.00	9282.00	12075.00			
Long hole		122.40	122.40			
drilling upervision:						
Drifting 10.0' @ 37	370.00	0.00	370.00			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3163.00	16026.40	19189.40	3163.00	16026.40	19189.40

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

Date 4-9-54 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

Per John W. Cole BY Title Sup't.

*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:

$ 2372.25

Signature [illegible] (Authorized Certifying Officer)

Date 4/23/54 Vou. No. 1146

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 598 in accordance with the terms of the contract.

Signature /S/ John D Bardill Title Metallurgist Date 4/4/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 4/20/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MA-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 195 4 Docket No. DMEA 3098 Contract No. Dm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Ft.	952.20	10.0	952.20	10.0	95.22	600	37.00
Crosscutting								
Raising								
Shafts Repairing	Ft.			2165.46	95.0	22.79	95	34.00
~~Wass~~ Sinking	Ft.	2916.90	26.6	16162.22	115.0	142.28	115	105.00
Drilling: Core								
~~Chop~~ Long hole	Ft.			151.52	68.0	2.22	250	1.80
Auger								
Stripping								
Trenching	Hr			2085.00	148.0	14.09	186	16.00
Test Pits								
Roads and Trails	Hr.			1134.20	64.0	17.72	64	16.00
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS		3869.10		22650.60				
Operating Equipment Purchased				11252.42				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc				7280.23				
TOTAL COSTS		3869.10		41183.25				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 4-9-54 Operator
BY
Per John W. Cole Title Sup't.

REMARKS: Sinking and drifting costs include $ 500.00 depreciation. Amortization of buildings and improvements not included.

→ 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

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1954

Docket No. DMEA 5098
Contract No. Idm-X-598
Tungsten

Narrative report of operations
March 1954

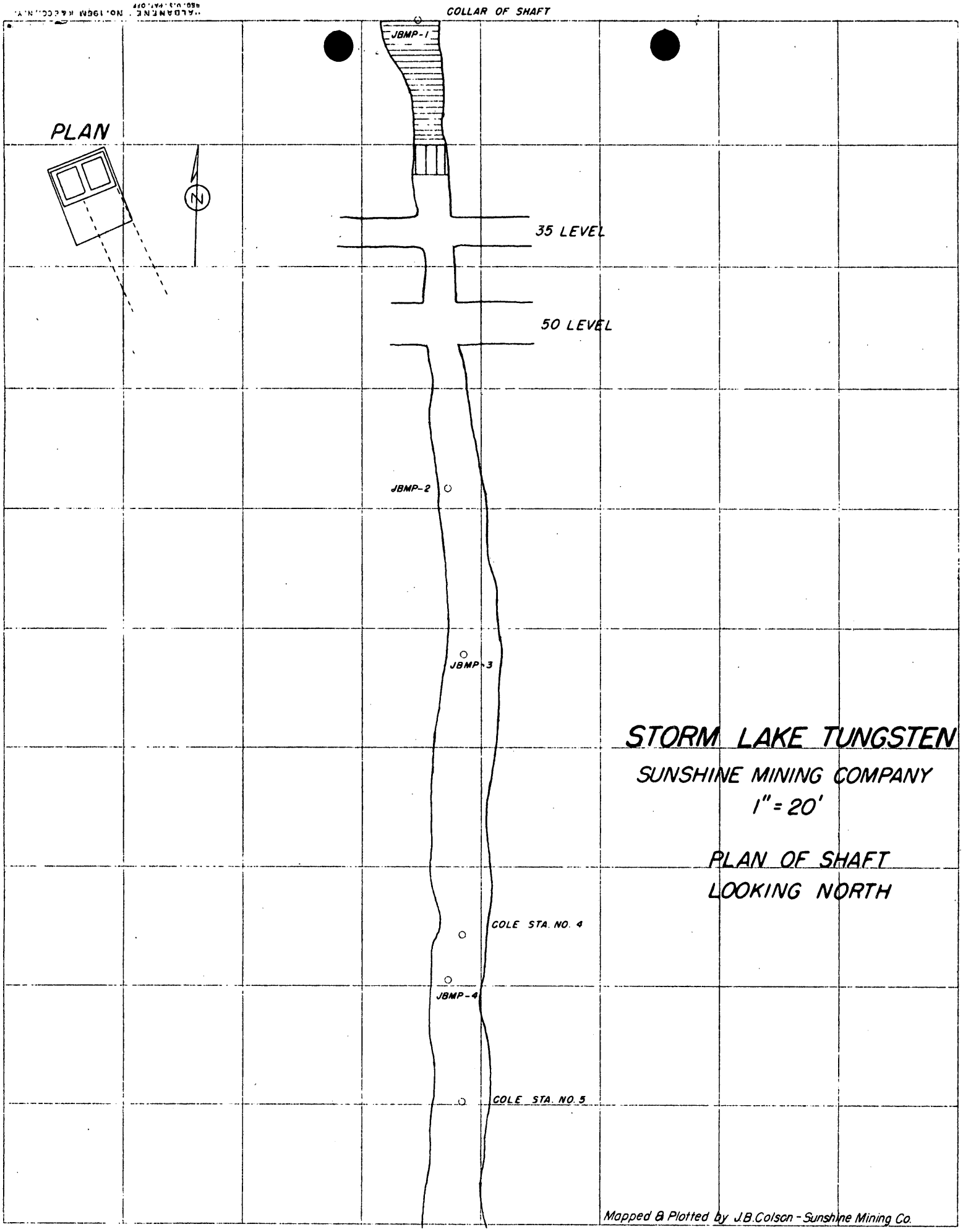
The bottom of the August shaft was advanced 26.6 feet, from 183.4 to 210.0 feet. A bulkhead was placed at 200 feet. A drift was started on ore stringers and advanced 10 feet southwest of the 200 level. The drift was widened to 10 feet for a core drill station. Core driller and equipment arrived from Kellogg preparatory to core drilling. Drilling had not started at the end of the period.

A private tractor was employed two days in clearing the road of snow.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY

John W. Cole
Superintendant


COLLAR OF SHAFT
JBMP-1
PLAN
N
35 LEVEL
50 LEVEL
JBMP-2
JBMP-3
COLE STA. NO. 4
JBMP-4
COLE STA. NO. 5
STORM LAKE TUNGSTEN
SUNSHINE MINING COMPANY
1" = 20'
PLAN OF SHAFT
LOOKING NORTH
Mapped & Plotted by J.B.Colson - Sunshine Mining Co.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [illegible] 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Sunshine Mining Company Minerals [illegible]
Address 750 Sprague Avenue, Spokane, Wash.
Contract Amount, $ 45,100.00 Government Participation: 75 % Amount, $ 33,825.75

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
[redacted]						
(1) Independent Contracts: Short Form		[illegible]	[illegible]			
Bulldozing		[illegible]	[illegible]			
Cleaning						
shaft						
Sinking	[illegible]	[illegible]	[illegible]			
Long hole		[illegible]	[illegible]			
drilling						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	3381.00	12645.40	16026.40

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

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date [illegible] *Payee

John S. Cole Cup't.
Per [signature] Title

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

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:

$ 2535.75

Signature [signature]
(Authorized Certifying Officer)

Date 3/17/54 Vou. No. 1111
(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. E598 in accordance with the terms of the contract.

Signature /s/ Verdo Z Johnson Title Mining Engr Date 3/16/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W Zoldok Title Mining Engr Date 3/16/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form 22F-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1954 Docket No. DMEA 3090 Contract No. 1dr-3-898
Operator's Name Sunshine Mining Company Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts Repairing	Ft			2165.46	95	22.79	95	34.00
Water Sinking	Ft	3382.50	32.2	15245.32	68.4	149.83	115	105.00
Drilling: Long hole	Ft			151.62	68	2.23	250	1.80
Churn								
Auger								
Stripping								
Trenching	Hr			2086.00	148	14.09	186	16.00
Test Pits								
Roads and Trails	Hr			1134.20	64	17.72	64	16.00
Total Distributed Costs		3382.50		18781.50				Total Costs Authorized by Contract
Operating Equipment Purchased		9.85		11252.42				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				7280.23				
Total Costs		3392.35		37314.15				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 3-8-54 Operator BY

Per John W. Cole Title Sup't.

Remarks: Supplies charged as purchased - no inventory credit. Sinking cost includes $ 500.00 depreciation. Does not include amortization of buildings and improvements.

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

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project
Anaconda, Montana

Docket No. DMEA 3098
Contract No. Idm-E-598
Tungsten

Narrative report of operations
February 1954

The August shaft was advanced 32.2 feet during the period to 183.4 feet depth. The average advance for each bottom shift was 1.62 feet for 20 shifts. 3 shifts were spent in shaft repairs. The road to the mine was cleared of snow by Deer Lodge county equipment. A Caterpillar D6 bulldozer was used 3 days for the job.

Quartz and calcite stringers mineralized with scheelite and silver minerals continue in the shaft bottom. The veinlets have the same attitude as the ore vein above the 100 level fault.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

BY JWC

John W. Cole
Superintendant

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

Month of January, 1954 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name Sunshine Mining Company Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $ 45,100.00 Government Participation 75 % Amount, $ 33,825.75

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) Short Form Contracts:						
Bulldozing		3392.00	3392.00			
Cleaning		3230.00	3230.00			
shaft						
Sinking 29.7' @ 105	3118.50	2782.50	5901.00			
Long hole		122.40	122.40			
drilling						
Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3118.50	9526.90	12645.40	3118.50	9526.90	12645.40

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

Date 2-10-54 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

Per W.C. Title Superintendent

*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:

$ 2338.88

Signature (Authorized Certifying Officer)

Date 2/16/54 Vou. No. 1080
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-598 in accordance with the terms of the contract.

Signature (S) Verdo Z Johnson Title Mining Eng. Date 2/15/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Stephen W Goldok Title Mining Eng. Date 2/15/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 195 4 Docket No. DMEA 3038 Contract No. Idm-3-698
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts repairing	Ft.			2165.46	95	22.79	95	34.00
sinking	Ft.	4610.07	29.7	9862.82	56.2	175.40	115	105.00
Drilling: Long hole	Ft			151.52	69	2.22	250	1.60
Churn								
Auger								
Stripping								
Trenching	Lr			2065.00	148	14.09	186	16.00
Test Pits								
Roads and Trails	Lr			1134.20	64	17.72	64	16.00
Total Distributed Costs		4610.07		15379.00				Total Costs Authorized by Contract
Operating Equipment Purchased				11242.57				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc				7280.23				
Total Costs				33921.80				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 2-10-54 Operator

Per J W C Title Supt.

Remarks: Supplies charged as purchased-no inventory credit. Sinking costs include $ 500 depreciation. Does not include amortization of buildings and improvements.

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

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project

Docket No. DMEA 5098
Contract No. Idm-E-598
Tungsten

Narrative report of operations
January 1954

The August shaft was sunk 29.7 feet during the period to 151.2 feet depth. Silicified limestone with scheelite bearing quartz and calcite stringers has been penetrated.

Work was interrupted during the week of January 17-24 by heavy snowfall and subzero temperatures. The road was plowed at a cost of $ 273.50. Work was resumed January 25 on a one shift basis. Provisions are being made for the employees to stay at the mine in case of further bad weather.

Final assay returns on suffaee samples from the Marlach vein indicate that a section 110 feet by average 4.65 feet wide contains plus 0.5 percent WO3.

SUNSHINE MINING CO.
TUNGSTEN DIVISION
BY JWC
John W. Cole
Superintendant

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

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

RECEIVED
JAN 29 1954

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

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

ITEMS OF COSTS	FOR OPERATOR'S USE			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 Contracts:						
[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]		[illegible]			
[illegible]	[illegible]		[illegible]			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	[illegible]	[illegible]	[illegible]	3550.90	5976.00	9526.90

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

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date ..... *Payee .....

BY [illegible]

Per JWC Title .....

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

→ 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:

$2663.18

Signature [illegible]
(Authorized Certifying Officer)

Date 1/14/54 Vou. No. 1058
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 598 in accordance with the terms of the contract.

Signature /S/ Stephen W Zoldok Title Mining Engr Date Jan 13-1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date Jan 13-1954

MONTHLY REPORT OF OPERATOR

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

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(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.

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 20 1954

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

Month of Dec 1953 Docket No. DMEA 2099 Contract No. Kdm-2-598
Operator's Name Sunshine Mining Company Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts Repairing	Ft.	629.30	19	2165.40	95	22.79	95	24.00
Shafts Sinking	Ft.	5252.75	20.5	5252.75	20.5	196.21	115	105.00
Drilling: Long hole	Ft.	151.02	60	151.02	09	2.02	250	1.60
Churn								
Auger								
Stripping								
Trenching	hr			2066.00	160	14.00	188	16.00
Test Pits								
Roads and Trails	hr			1154.20	04	17.72	04	16.00
Total Distributed Costs		6033.03		10766.93				Total Costs Authorized by Contract
Operating Equipment Purchased		10000.00		11242.57				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				7280223				
Total Costs		16033.03		29311.75				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 1-8-54 Operator
BY
Per J W C Title Sup't.

Remarks: Supplies charged as purchased. No inventory credit. Sinking cost includes $ 500.00 depreciation. Does not include amortization of buildings and improvements.

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

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project

Docket No. DMEA 3098
Contract No. Idm-E-598
Tungsten

Narrative report of Operations
December, 1953

Rehabilitation of the August shaft was completed December 5. The bottom 10 feet of the shaft was filled with broken rock. Solid rock was encountered at depth 95-98 feet. The shaft bottom was at depth 121.5 at the end of the period.

The vein pinched at depth 100 feet. Below this point, the shaft has penetrated impure limestone with occasional stringers and blebs of scheelite bearing calcite. A round was blasted in the footwall of the shaft at depth 80 feet. Nine feet(normal to vein) of good ore(lamp estimate) is exposed at this point with neither the footwall or hanging wall exposed. Some indication that an intersecting vein crosses at this point or it may be a mineralized bed in the limestone. It should be investigated by core drilling or cross-cutting from the shaft.

Shaking operations are conducted on a 2 shift a day basis. The shaft should be completed to depth 210 feet in approximately 30 days.

SUNSHINE MINING COMPANY

John W. Cole
Superintendant

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 3098 Contract No. Idm-E-598
Operator's Name Sunshine Mining Company Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $ 45,105.00 Government Participation: 75 % Amount, $ 33,828.75

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) ~~Dmeaxxxxx~~ Short Form Contracts:						
Drilling						
Bulldozing 32hrs @ $16	512.00	2880.00	3392.00			
Crosscutting Rd 16 hrs						
Drifting Tr. 16 hrs						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) ~~Contingencies~~ (specify): Cleaning and re-timbering shaft 70ft at $ 34	2380.00	204.00	2584.00			
TOTALS	2892.00	3084.00	5976.00	2892.00	3084.00	5976.00

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

Date 12-13-53 *Payee SUNSHINE MINING CO. TUNGSTEN DIVISION

Per JWC BY Title Sup't.

*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:

$ 2169 00

Signature [signature]
(Authorized Certifying Officer)

Date 12/18/53 Vou. No. 1024
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-598 in accordance with the terms of the contract.

Signature /S/ Stephen W. Zoldok Title Mining Engr Date 12/18/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Engr Date 12/18/53

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Nov. 1953 Docket No. DMEA 3098 Contract No. Idm-E-598

Operator's Name Sunshine Mining Company Minerals Tungsten

Address 738 Peyton Building, Spokane, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising Repairing	Ft.	1144.46	70	1536.10	76	20.21	95	34.00
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching	Hr	174.00	16	2085.00	148	14.09	186	16.00
Test Pits								
Roads and Trails	Hr	200.10	16	1134.20	64	17.72	64	16.00
TOTAL DISTRIBUTED COSTS		1518.56		4755.71				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		88.82		1242.57				
Initial Rehabilitation and Repairs		4645.00		7280.23				
New Buildings, Improvements, etc.								
TOTAL COSTS		6252.38		13276.51				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 12-13-53 Operator BY

Per J.W.C. Title Sup't.

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project

Docket No. DMEA 3098
Contract No. Idm-E-598
Tungsten

Narrative report of operations
November, 1953

Construction of the road was completed. Two additional trenches were excavated on the August structure. Eight jackhammer drill holes were completed in the scheelite bearing dolomite zone near the Uncle Jake discovery cut. 67.8 feet of hole was drilled. 14 samples were collected. 4 samples were discarded after lamping. Ten samples were assayed. Assays ranged from 0.05 to 0.288 percent WO3.

Compressor and shop building, change building, hoist building, powder magazine and headframe were completed. Hoist and compressor were installed.

Seventy feet of shaft was cleaned and timber installed where needed.

Assays of 19 samples from the Tarlach outcrop range from trace to 0.72 percent WO3. Pulps of these samples are being assayed by other assayers as a check.

SUNSHINE MINING COMPANY

JWC

John W. Cole
Superintendant

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 Sept-Oct, 1953 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name Sunshine Mining Company Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.
Contract Amount, $45,105.00 Government Participation: 75 % Amount, $33,828.75

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 180hrs@$16	2880.00	0	2880.00			
Crosscutting						
Drifting Road 48 hrs						
Trenching 132 "						
180						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
(5) Cleaning and retimbering shft. 6 ft. @ $34	204.00	0	204.00			
TOTALS	3084.00		3084.00	3084.00		3084.00

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

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date Nov. 11, '53 *Payee

BY Rowland Ring Smith

Per John W. Cole Title Sup't. Agent

*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:

$ 2313.00

Signature
(Authorized Certifying Officer)

Date 11/20/53 Vou. No. 989
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 59 8 in accordance with the terms of the contract.

Signature /S/ Stephen W Zoldok Title Mining Eng Date Nov 18-1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ A. E. Weissenborn Title Exec. Officer Date Nov 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-104A
(April 1952)

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

Received
NOV 13 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of ~~Oct.~~ Sept 1953 Docket No. DMEA 3098 Contract No. Idm-E-598
Operator's Name SUNSHINE MINING COMPANY Minerals Tungsten
Address 738 Peyton Building, Spokane, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts Repairing	Ft.	391.64	6	391.64	6	65.27	95	34.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching	Hr	1911.41	132	1911.41	132	14.48	186	16.00
Test Pits								
Roads and Trails	Hr	934.10	48	934.10	48	19.45	64	16.00
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS		3237.15		3237.15				
Operating Equipment Purchased		1153.75		1153.75				
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		2635.23		2635.23				
TOTAL COSTS		7026.13		7026.13				

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.

SUNSHINE MINING CO.
TUNGSTEN DIVISION

Date 11-11-53 Operator BY

Per John W. Cole Title Supt
Rodland Ring Auth. Agent

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

SUNSHINE MINING COMPANY
Tungsten Division
Storm Lake Project

Docket No. DMEA 3098
Contract No. Idm-E-598
Tungsten

Narrative Report of Operations
September-October, 1953

An engineer-superintendant started work on September 16. The road was surveyed and plans for the work were made. A bulldozer was hired and road construction begun on September 29. A preliminary road to the August shaft was completed on October 3. Trenching was started and 5 trenches were completed by the end of the period. A survey was made and geologic map prepared on a 200 scale showing trenches 1 to 4.

Compressors and drills were employed in rock excavation at the August shaft collar to level the ground for buildings. The collar of the shaft was cribbed with timber to provide a foundation for the headframe. Construction of headframe and buildings was started on October 26. A maximum of 5 men were employed in the work in addition to 4 carpenters who are building the headframe and buildings under contract.

The Tarlach vein was sampled during the period. Assays have not been received.

SUNSHINE MINING COMPANY

John W. Cole

John W. Cole
Superintendant

Mr. James H. Maguire
P. O. Box A-34
Grants, New Mexico

DEC 4 1963

Re: DMEA-3098 (Tungsten)
Sunshine Mining Company
Tungstar Group (Earlach Group)
Deer Lodge and Granite
Counties, Montana
Contract Idm-8598

Dear Mr. Maguire:

This is with reference to the Owner's Consents to Lien, dated June 12, 1953, and September 28, 1954, which you executed for yourself and as attorney-in-fact for William E., Regina, John T., and Marjorie H. Maguire.

By the terms of the subject Exploration Project Contract, as amended, and the certification of discovery or development dated August 26, 1953, all minerals mined or produced from September 14, 1953, to September 14, 1963, were subject to the Government's percentage royalty as set forth in said contract.

As the period during which production was subject to royalty has now expired, the Government according to its present records retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract.

Sincerely yours,

George Fumich, Jr.

Acting Director

FMMurphy/mm
12/4/63
cc: Director's Reading File
✓CA&A Division
Region I
Docket
Code 500

DEC 4 1963

Mr. Earl F. Elstone
President
Mines Prospecting and Exploration Co.
2115 26th Avenue
Missoula, Montana

Re: DMEA-3098 (Dungaten)
Sunshine Mining Company
Tunsgatar Group (Tarlach Group)
Deer Lodge and Granite
Counties, Montana
Contract Idm-E59E

Dear Mr. Elstone:

This is with reference to the Owner's Consents to Lien, dated June 12, 1953, and September 28, 1954, which you executed as president of your Company.

By the terms of the subject Exploration Project Contract, as amended, and the certification of discovery or development dated August 26, 1955, all minerals mined or produced from September 14, 1953, to September 14, 1963, were subject to the Government's percentage royalty as set forth in said contract.

As the period during which production was subject to royalty has now expired, the Government according to its present records retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract.

Sincerely yours,

George Fumich, Jr.

Acting Director

FMMurphy/mm
12/3/63
cc: Director's Reading File
CA&A Division
Region I w/cy of Form 63 dated 10/15/63
Docket
Code 500

CERTIFICATION BY THE UNITED STATES OF AMERICA
OF A DISCOVERY OR DEVELOPMENT UNDER
AN EXPLORATION PROJECT CONTRACT

To: Sunshine Mining Company
738 Peyton Building
Spokane 1, Washington

Pursuant to the provisions of Exploration Project Contract No. Idm-R398, dated September 14, 1953 (Docket No. DMEA 3098), hereinafter called the "Contract," between you and the United States of America, hereinafter called the "Government;" to establish and fix the Government's percentage royalty on production and its lien thereon and on the land described in the contract, the Government considers and therefore certifies that a discovery or development from which production may be made has resulted from the exploration work.

The nature of said discovery or development is described broadly or indicated as follows:

A program of trenching, long-hole drilling, shaft-sinking, drifting, and diamond drilling has explored for possible extensions and occurrences of tungsten-bearing ores in a quartz vein or veins. This exploration work has exposed small ore lenses and has furnished data for calculation of minor indicated ~~ore~~ reserves and made such material accessible for mining operations.

THE UNITED STATES OF AMERICA

Dated: AUG 2 6 1955

C. O. Mattson
Administrator, Defense Minerals
Exploration Administration

cc: Docket
Code 400 - Mr. Martin
Code 800 - Mr. Chambers
Code 110 - Mr. Johnson
Adm. Reading File
Operating Committee
R. W. Hedman, USBM
R. Holliday, USBM
T. Kiilsgaard, USGS
Finance Officer,
FT, Reg. I - Spokane

cc: Mines Prospecting & Expl. Co.
Missoula, Mont.
Dr. A. Fredell, EPS, GSA

TLChapman/ls
3/14/55

100

AUG 29 1955

Anaconda Mining Company
710 Peyton Building
Spokane 1, Washington

Re: Contract No. [illegible] - Tungsten
Tungsten Group (Yellowish Group)
Deer and Granite Counties, Montana
Contract No. [illegible]

Gentlemen:

Transmitted herewith is a certification of discovery or development for Contract No. [illegible], on the Yellowish Group, Deer Lodge and Granite Counties, Montana.

By the terms of the exploration project contract and of the certification, all production from the property from the date of the exploration project contract, September 15, 1953, is subject to the Government's percentage royalty or net share in the amount until the sum of [illegible] is paid or until September 15, 1958, whichever occurs first. The sum of $33,695.85 is subject to final audit.

Payments should be made to Mr. A. E. Wolcenstein, Executive Officer, 2004 Field Term, Region 1, Northern District, South 317 Broad Street, Spokane 1, Washington. Checks should be drawn to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct the royalties from the current due on each shipment and forward checks to the Executive Officer.

Monthly payments to the Government should be accompanied by suitable evidence, such as copies of settlement sheets, showing quantity and grade of ore produced, the name of purchaser, and the price and charges established to be allowed by the purchaser.

You are requested to notify Mr. Wolcenstein of any changes in ownership or production rights that may have any effect on the Government's right to the percentage royalty. Also, if production occurs at any time for an extended period, please notify Mr. Wolcenstein of Contract termination that no production has been made.

Sincerely yours,

C. O. Mittendorf

Enclosure

Administrator

AUG 29 1955

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region I - Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 3098 - Tungsten
Sunshine Mining Company
Storm Lake Tungsten Property
Deer Lodge & Granite Counties,
Montana
Contract No. Idm-8598

Dear Mr. Weissenborn:

Reference is made to your letter of July 29, 1955, from which we note that the objectives of the above-noted contract have been accomplished. We conclude, therefore, that no formal termination is necessary now.

Consequently, we are issuing a Certification of Discovery or Development, and we are enclosing your copies of the certification and related letters.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

/s/ N. E. Nelson

Member, Geological Survey

cc: DOCKET
FT. REG. I-SPOKANE
CODE 400 - Mr. Martin
CODE 800 - Mr. Chambers
CODE 110 - Mr. Johnson
OPERATING COMMITTEE
R. W. GEEHAN, USBM
ROBERT HOLLIDAY, USBM
THOR KIILSGAARD, USGS
ADM. READING FILE

TLChapman/ ls 8/9/55
WSMartin

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

400

AUG 29 1955

Mines Prospecting and Exploration Company
719 Radio Central Building
Missoula, Montana

Re: Docket No. DMEA 3098 - Tungsten
Sunshine Mining Company
Tungstar group (Tarlach group)
Deer Lodge and Granite Counties,
Montana
Contract No. Idm-3598

Gentlemen:

Transmitted herewith for your information is a copy of the certification of discovery or development issued as a result of the exploration program under the above-referenced contract. The property as set forth in the contract was leased to the Sunshine Mining Company by the Mines Prospecting and Exploration Company on March 24, 1953, and is the same property referred to in the Owners' Consents to Lien, executed by Mines Prospecting and Exploration Company, Earl F. Elstone, President, Herbert C. Fisher, Secretary, on June 12, 1953, and September 28, 1954.

By the terms of the exploration project contract and of the certification, all production from the aforesaid lands from the date of the exploration project contract is subject to the Government's percentage royalty as set forth in the contract until the sum of $33,695.85 is paid or until September 14, 1963, whichever occurs first. This sum is subject to final audit.

Sincerely yours,

C. O. Mittendorf

Administrator

TLCHAPMAN:ls/foc
cc to: Docket
Code 110 - Mr. Johnson
Code 800 - Mr. Chambers
Code 400 - Mr. Martin
FT. REG. I - NW DIST.
Adm. Read. File
Operating Comm.
R. W. Geehan, USBM
Thor H. Kiilsgaard, USGS
Robert Holliday, USBM

8/23/55

cc: Docket
Oper. Comm.
Code 400
Adm. Read. File
R. W. Gechan, USBM
Thor Killsgaard, USGS

cc: FT, Reg. 1-Spokane
Robt. Holliday, USBM
Code 110 - Mr. Johnson
Code 500 - Mr. Chambers

AUG 29 1955

Mr. C. A. Tredell, Acting Director
Materials Division, Emergency Procurement Service
General Services Administration
Washington 25, D. C.

re: Docket No. [illegible] - Tungsten
Sunshine Mining Company
Tungsten Group (Tarlach Group)
Deer Lodge & Granite Counties,
Montana
Contract No. [illegible]

Dear Mr. Tredell:

Enclosed is a certification of discovery or development for the above-noted project.

Contract No. [illegible] was executed September 14, [illegible]. Expenditures up to $43,[illegible].00 were authorized, of which the Government share at 75% was $33,[illegible].15. By Amendment No. 2, executed September 22, [illegible], the authorized expenditures were increased to $[illegible],355.00, of which the Government share at 75% was $[illegible]. The project was terminated with an expenditure of $44,[illegible], of which the Government share at 75% is $33,[illegible], subject to final audit.

The object of the exploration program was to explore the extensions and occurrences of tungsten-bearing ores in a quartz vein or veins for additional reserves. The project necessitated building of a road, rehabilitation of shaft, and exploration by trenching, long hole drilling, shaft-sinking, drifting, and diamond drilling.

The contract and Amendments No. 1 and No. 2 authorized [illegible] hours of bulldozing for roads and trenching, rehabilitation of [illegible] feet of shaft, sinking shaft 115 feet, drifting [illegible] feet, long hole drilling 2[illegible] feet (in lieu of bulldozing trenches, Amendment No. 1), and diamond drilling 2,500 feet (Amendment No. 2). Of the above, 212 hours of bulldozing, rehabilitation of [illegible] feet of shaft, shaft-sinking 115 feet, drifting 5[illegible] feet, [illegible] feet of long hole drilling, and 1,[illegible] feet of diamond drilling were completed. With the work approximately 70% complete, the main objectives of the contract had been reached and further work was not considered worthwhile.

It is estimated that about 1,425 tons of ore that will assay from 0.50 to 0.[illegible]36 WO_3 are indicated by the exploration project.

Sincerely yours,

S. O. Mittenden

Administrator

Enclosure

T.Chapman/ia
8/12/55

Government's copy

RECEIVED

EXPLORATION PROJECT CONTRACT
SUNSHINE MINING COMPANY
DOCKET NO. DMEA 3098

AMENDMENT NO. 2

It is agreed this 22nd day of September, 1954, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Sunshine Mining Company, that Exploration Project Contract No. Idm-E598 (Docket No. DMEA 3098), dated September 14, 1953, as amended, is further amended effective August 25, 1954, as follows:

1. In Article 3, Exploration project, delete "12 months" and substitute "24 months."

2. In Article 4 of the contract, delete the figures "$33,828.75" and "$45,105.00" and substitute the figures "$46,016.25" and "$61,355.00," respectively.

3. In Exhibit "A", under "Description of the Work," add two new stages of work, as follows:

Stage III

The work under Stage III is indicated, in part, on Map No. 3 attached hereto and made a part hereof entitled "Tarlach Vein Contour Map," and consists of five diamond drill holes of EX size as indicated to explore the downward extension of the Tarlach vein. Four drill holes shall be drilled, as indicated on Map No. 3, bearing approximately No. 20° W. and at an inclination of approximately minus 45°. The location, bearing, and inclination of Drill Hole No. 5 will depend upon the results of the first four drill holes. Drilling of this hole is subject to the prior written approval of the Government. The aggregate drilling under Stage III shall not exceed 1,000 feet.

Stage IV

Stage IV shall be undertaken only after completion of Stage III and upon prior written approval of the Government.

Diamond drill not to exceed an aggregate of 1,500 feet, of EX size in an estimated five drill holes to further explore the Tarlach Vein. The number of holes, and the location, bearing, and inclination of all holes are subject to prior written approval of the Government.

4. In Exhibit "A", under "Estimated Costs of the Project, Agreed Unit Costs," add:

Diamond drill 2,500 feet @ $6.50/ft.[1/] $16,250.00

5. In Exhibit "A", under "Estimated Costs of the Project, Agreed Unit Costs," delete the figures "$45,105.00" and "$33,828.75" and substitute the figures "$61,355.00" and "$46,016.25," respectively.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By O. Meredith

Administrator, Defense Minerals Exploration Administration

SUNSHINE MINING COMPANY

By Rowland King

Agent

1/ Refers to footnote 1/ in Exhibit "A".

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Minerals Administration
RECEIVED
FEB 1 - 1954

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Montana, County of Deer Lodge, described as follows:1/ The Echo, September, Scheelite, Tungstar, South Tarlach, R.R.W.Tarlach as amended, Ridge Claim No. 2 (Uncle Jake), and the Scotty Tom Lode Mining Claims, as recorded in the Deer Lodge County Courthouse, Anaconda, Montana. Book 23, pages 16-20-23-37-45-47-49-51, Sections 7 & 8, Twp. 4 North; R. 13 W. & Sec. 12, Twp 4 North; R. 14 W. M.P.M.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Sunshine Mining Company

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract or any amendment thereof shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract or any amendment thereof there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions _____

Dated this 28 day of September, 1954.

Mines Prospecting & Exploration Co.

Earl F. Wistrand Pres. [Seal]

Herbert C. Fisher Secretary [Seal]

James H. Maguire [Seal]

James H. Maguire

Marjorie H. Maguire

Marjorie H. Maguire

John T. Maguire

William E. Maguire

Regina Maguire

James H. Maguire

by James H. Maguire as Attorney in fact for John T. Maguire, William E. Maguire and Regina Maguire, his wife

William Gallagher

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

January 19, 1954

Memorandum

To: Mr. W. S. Martin, Acting Chief
Iron and Ferro Alloys Division

From: Jay L. Chambers, Chief (Signed) J. L. Chambers
Contract Administration and Audit Division

Subject: Docket No. DMEA-3098 (Tungsten), Sunshine Mining Company, Deer Lodge and Granite Counties, Montana, Contract Idm-1598

In a memorandum to the DMEA Field Team, Region II, under date of January 5, 1954, J. J. Quinlan, Geologist, made a report on a visit on the above-cited project, in which he made certain recommendations in regard to the use of bulldozing funds.

Mr. Quinlan recommended that the balance of the bulldozing fund which he placed at $625.00 be authorized for use in removing snow on the property access highway.

I would like to call your attention in this memorandum, as I did orally a few days ago, to the fact that the bulldozing balance was only $608.00, instead of $625.00, and of this amount Amendment No. 1 to the contract allows $450.00 for long-hole drilling. This would leave a balance of only $158.00.

The question also arises in my mind as to the legality of an amendment authorizing snow removal on a short form contract. The contract calls for so much work at a stipulated agreed unit price. The matter of having access to the property, it appears, would be entirely for the account of the Operator. On this point, however, Legal should be consulted.

I am writing this memorandum because I think the matter should be called to the attention of the Executive Officer of Region II.

JLChambers/wb
January 19, 1954

Copy to: Docket
Admr. Reading File
Mr. Chambers

DEPARTMENT OF THE INTERIOR
GOVERNMENT COPY
Defense Minerals Administration
RECEIVED
NOV 23 1953

AMENDMENT NO. 1

It is agreed this 17th day of November 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, and Sunshine Mining Company

each acting in consideration of the agreement of the other to the terms hereinafter set forth, that the Exploration Project Contract Idm-E 598 of September 14, 1953 between the parties hereto be modified and amended as described in Exhibit "F" attached hereto, which, with any maps or drawings attached thereto, is made a part of this agreement. The effective date of this amendment shall be November 6, 1953.

This amendment is made by authority granted the Executive Officer, DMEA Field Team, Region II, in Order No. 2684 by the Acting Secretary of the Interior.

This amendment shall not be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "Allowable Maximum."

Executed in sextuplicate the day and year first above written.

SUNSHINE MINING COMPANY
(Operator)

By Rowland King

THE UNITED STATES OF AMERICA

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

Bureau Minerals Administration
RECEIVED
NOV 23 1953

EXHIBIT "A"

EXPLORATION PROJECT CONTRACT
SUNSHINE MINING COMPANY
CONTRACT No. Idm-E598
DOCKET No. DMEA-3098 (Tungsten)

AMENDMENT No. 1

Changes and modifications:

In Exhibit "A" under the section entitled "Description of the Work, Stage I, TRENCHING," add the following statement:

"At locations where it is not practical to test outcrops with a bulldozer, long-hole drilling may be substituted in lieu of bulldozing to more advantageously test those outcrop areas. The maximum amount of long-hole drilling which may be substituted for bulldozing shall not exceed 250 feet."

In Exhibit "A" under the section entitled "Estimated Costs of the Project, Agreed Unit Costs," add footnote "2/" to item 1-- "Bulldozing (road and trenches) 250 hours @ $16.00/hr." Footnote 2/ is as follows:

"2/ Where long-hole drilling is performed in lieu of bulldozing it will be paid for out of funds allocated for bulldozing. Long-hole drilling will be paid for at the rate of $1.80 per foot, which includes costs of sampling and assaying. Further, as a maximum of 250 feet of long-hole drilling is allowed, the total cost of long-hole drilling which may be substituted for bulldozing shall not exceed $450."

DEPARTMENT OF THE INTERIOR
Bureau Minerals Administration
Spokane
NOV 23 1953

SUNSHINE MINING COMPANY
CONTRACT No. Idm-E598
DOCKET No. DMEA-3098 (Tungsten)

Justification of Amendment No. 1

This amendment to the contract is made in order to permit the sampling and evaluation of promising outcrops which cannot adequately be uncovered with a bulldozer. In particular, the Jefferson limestone, in the vicinity of the Uncle Jake discovery cut, contains crystals of disseminated scheelite for a distance of 90 feet into the footwall of the Tarlach structure (see attached sketch map). It is believed that this disseminated scheelite may be in part representative of replacement ore out along favorable beds from the Tarlach structure. It is not possible to use the bulldozer in this area because of the massive nature of the limestone. However, as the beds which appear to contain the scheelite are very close to the surface it is proposed to use long holes to test the favorable bed or beds. It is proposed to drill the holes on 25-foot centers working from the area of the best showing. It is estimated that these holes will be approximately 10 feet deep, and that a maximum of 25 holes will be drilled.

The holes will be drilled with a jackhammer and the cuttings from every 5-foot interval will be saved for lamping and assaying. It is estimated that the cost of drilling will amount to $1.00 per foot. Assaying of the cuttings will cost $4.00 per sample or $0.80 per foot. Thus the total estimated cost per foot of long hole including sampling and assaying charges is $1.80 per foot or $450 for 250 feet of hole.

Docket No. 3698

Commodity Tungsten

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 598

Date of Contract ~~or Amendment~~: September 14, 1953

Name and Address of Operator:

Sunshine Mining Co.
738 Peyton Building
Spokane, Washington

Amount of Government participation ____ $ 46,016.25

Percent of Government participation 25 %

Region: I IV State: Montana

Note: Please reimburse $12,320.38

E. R. Talbert
(Name)
for J. E. Chambers, Chief
Contract Administration and
Audit Division

(Title)

Date Delivered to Bureau of Mines, Washington.

9/20/55

54458

Docket No. DMEA - 3098

Commodity Tungsten

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

AMENDMENT

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 598

Date of Contract ~~or Amendment~~ Sept. 14, 1953

Name and Address of Operator:
Sunshine Mining Co.,
738 Peyton Bldg.,
Spokanel, Washington

Amount of Government participation $ 46,016.25

Percent of Government participation 75 %

Region: 11 State: Montana

Note: This document establishes the obligation shown above and cancels the previous obligation of $ 33,828.75

(Name)
J. L. Chambers
Chief, Contract Administration and Audit Division

(Title)

Date Delivered to Bureau of Mines, Washington.

9/23/54

54458

Docket No. ~~DEM AMT 3098~~

Commodity ~~Tungsten~~

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration, under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 602

Date of Contract ~~or Amendment~~: September 14, 1953

Name and Address of Operator:
Sunshine Mining Company
738 Peyton Building,
Spokane 1, Washington

Amount of Government participation $ 33,828.75

Percent of Government participation 75 %

Region: II State: Montana

(Name)

J. E. Chambers,
Chief, Contract Administration and Audit Division

(Title)

Date Delivered to Bureau of Mines, Washington. 9/15/53

13808

MF-200 (A)
(February 1952)

DOCKET NO. DMEA 3098

COMMODITY Tungsten

Government's Copy

IDM-E 598

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 14th day of September, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Sunshine Mining Company, a corporation duly organized and existing under and by virtue of the laws of the State of Washington
738 Peyton Building
Spokane 1, Washington

hereinafter called the "Operator," as follows: and as set forth in Annexes I and II attached hereto and made a part hereof:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Montana Counties, ~~xxxx~~ of Deer Lodge and Granite, described as ~~xxxxx~~[3] set forth in Annex I,

the Operator represents and undertakes:[4]

(*a*) ~~That the Operator is the owner in possession and entitled to possession, and that the property is subject only to the following claims, liens, encumbrances, as to each of which the subordination agreement of the holder is attached.~~

(*b*) That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien is attached.

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for[5] Tungsten

in or upon the described land; and shall bring the project to completion within a period of 12 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 75 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $33,828.75 which is 75 percent of $45,105.00 the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows: See Annex II, substituted for that part of 6(a) preceding the colon:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if, in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* _____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

SUNSHINE MINING COMPANY
(Operator)

By Frank M. Hardy
Vice President

By C. Mitendorf
Administrator, Defense Minerals Exploration Administration

I, C. M. Hull, certify that I am the secretary of the corporation named as Operator herein; that Frank M. Hardy, who signed this contract on behalf of the Operator, was then Vice President of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

C. M. Hull [CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

EXPLORATION PROJECT CONTRACT
SUNSHINE MINING COMPANY
DOCKET NO. DMEA-3098

ANNEX I

The property referred to in Article 2 of the contract form consists of the following 8 unpatented lode mining claims located in Sections 7, 8, and 12, Township 4 North, Ranges 13 and 14 West, M. P. M., in the Storm Lake Mining District (also called the Silver Hill Mining District), Deer Lodge and Granite Counties, Montana; they are recorded in the Deer Lodge County Court House at Anaconda, Montana, as follows:

Claim Name	Book No.	Page No.
R.R.W. Tarlach, as amended	23	16
Ridge Claim No. 2 (Uncle Jake)	23	23
Scotty Tom	23	20
South Tarlach	23	37
✓ September	23	45
✓ Echo	23	47
✓ Scheelite	23	49
✓ Tungstar	23	51

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Montana, County of Deer Lodge, described as follows: 1/ The Echo, September, Scheelite, Tungstar, South Tarlach, R.R.W.Tarlach as amended, Ridge Claim No. 2 (Uncle Jake), and the Scotty Tom Lode Mining Claims, as recorded in the Deer Lodge County Courthouse, Anaconda Montana. Book 23, pages 16-20-23-37-45-47-49-51

Sections 7 & 8, Twp. 4 North; R 13 W & Sec. 12, Twp 4 North; R 14 W. M.P.M.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ Sunshine Mining Company

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production 3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ _____, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 12th day of June, 1953.

Mines Prospecting & Exploration Co.

William E. Maguire Earl F. Elstone Pres. [Seal]

Regina Maguire

John T. Maguire Herbert C. Fisher Secy. [Seal]

James H. Maguire

Marjorie H. Maguire

William Gallagher [Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

EXPLORATION PROJECT CONTRACT
SUNSHINE MINING COMPANY
DOCKET NO. DMEA-3098

ANNEX II

The following provisions are in lieu of all of paragraph (a) of Article 6 which precedes the colon:

If the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after a sufficient, complete, final report and final account referred to in the contract has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development. The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2, as follows: (1) Regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

EXPLORATION PROJECT CONTRACT
SUNSHINE MINING COMPANY
DOCKET NO. DMEA-3098

EXHIBIT "A"

Description of the Work

The mining claims, and the proposed work which is to be performed in two stages, are shown on the attached maps—

Map No. 1, entitled "Storm Lake Tungsten Prospect," which shows the mining claims and the approximate location of proposed road and trenches; and

Map No. 2, entitled "Storm Lake Tungsten Prospect, Longitudinal Section," which shows the August shaft, drifts and raise, and the proposed shaft deepening and drifts.

The exact location, direction, inclination, and extent of all work shall be subject to the prior approval of the Government.

Stage I

ROAD

Approximately 2 miles of road to and on the property shall be constructed with a bulldozer, to be used not in excess of 64 hours. The bulldozer shall be a D-7 or equivalent.

TRENCHING

To uncover outcrops, approximately 6 surface trenches shall be dug with a bulldozer, to be used not in excess of 186 hours. The length and depth of the trenches will be dependent on the overburden and mineralization.

REHABILITATION

Where necessary, but not in excess of 95 feet, clean out and retimber the August shaft to the 95-foot level.

SHAFT SINKING

Sink the August shaft, with necessary timbering, from the 95-foot level to the 200-foot level, allowing an additional 10 feet for a sump—total of 115 feet. The shaft shall continue to follow the vein on its dip and be 6 feet by 9 feet in rock section.

DRIFTING

Based upon the geological conditions and mineralization, drift easterly and westerly along the vein for a distance of 300 feet. The drifts shall be not less than 5 feet by 7 feet in the clear and timbered where necessary.

Stage II

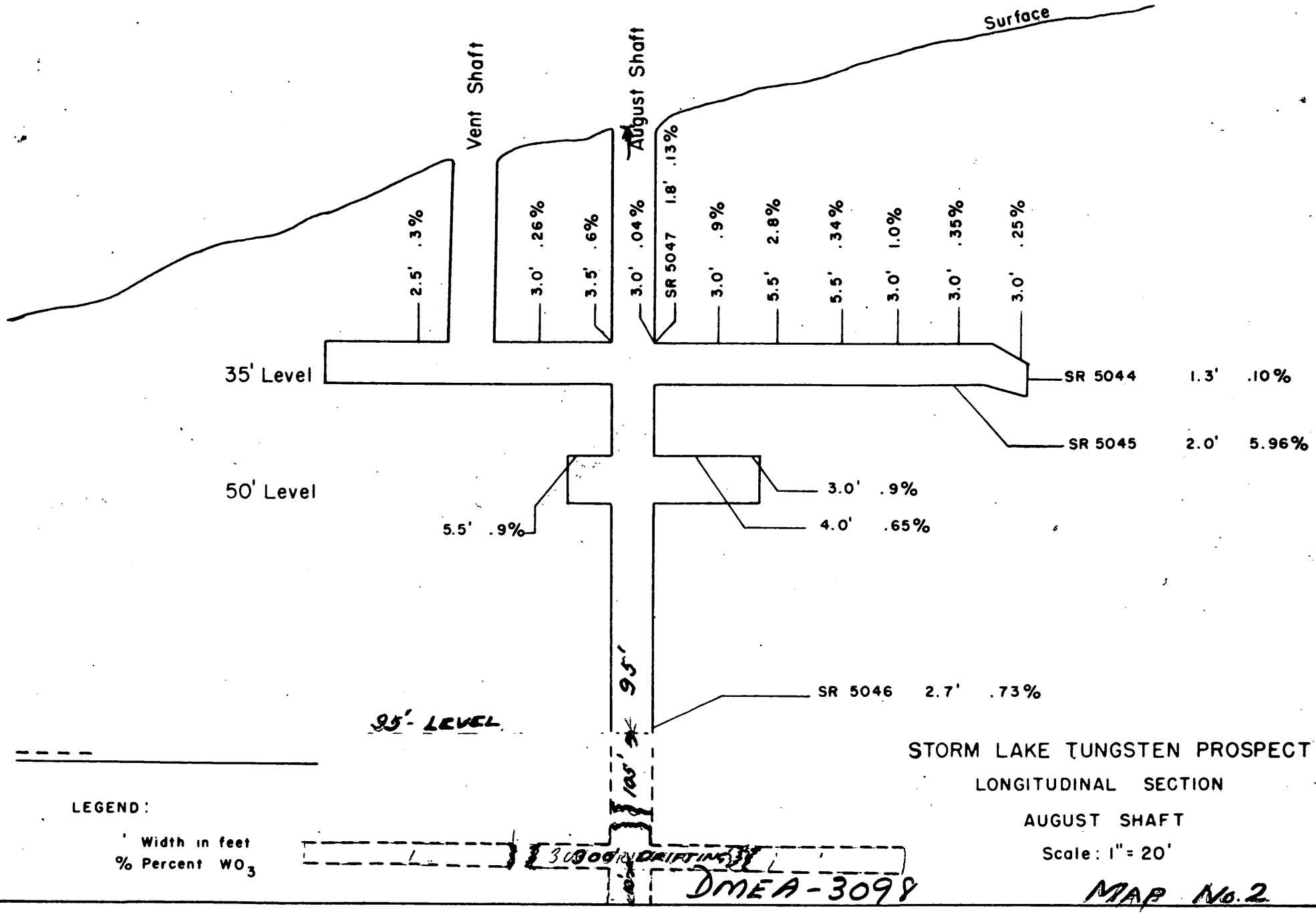
If warranted by the results obtained in Stage I, continue the drift or drifts on the 200-foot level for a distance of 300 feet. The drifts shall be not less than 5 feet by 7 feet in the clear and timbered where necessary.

Estimated Costs of the Project

Agreed Unit Costs

Bulldozing (road and trenches) 250 hours @ $16.00/hr.	$4,000.00	
Cleaning and retimbering shaft 95 feet @ $34.00/ft.	3,230.00	
Shaft sinking, 115 feet @ $105.00/ft 1/	12,075.00	
Drifting, 600 feet @ $37.00/ft. 1/	22,200.00	
Timbering drifts, 600 feet @ $6.00/ft.	3,600.00	
Total Agreed Unit Costs		$45,105.00
Government Participation at 75%		$33,828.75

1/ The unit costs include all costs of sampling and assaying.



STORM LAKE TUNGSTEN PROSPECT

LONGITUDINAL SECTION

AUGUST SHAFT

Scale: 1" = 20'

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That I, Regina Maguire of Miles City Montana, have made, constituted and appointed, and by these presents do make, constitute and appoint R. R. Wallace, Cable Mine, Anaconda Montana, or James H. Maguire, Silverton Idaho, either of which may act as my true and lawful attorney, for me and in my name, place and stead, and for my use and benefit, with full authority to make all contracts and to do all other acts of a business nature in connection with selling or leasing the following lode mining claim situated in the County of Deer Lodge, State of Montana, to-wit: Scotty Tom Lode Mining Claim, as recorded in Book 23, Page 20, in the records of Deer Lodge County, Anaconda Montana; including the conveyance of same, as effectually as I could do if personally present, with full power of substitution and revocation; and I hereby ratify and confirm all acts that either may lawfully do in performance of this power.

Witness my hand this 24 of March, 1953.

Regina Maguire

STATE OF MONTANA)
County of Quartz) : SS.

On this 24 day of March, 1953, before me the undersigned, a Notary Public in and for the State of Montana, personally appeared Regina Maguire, personally known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that she executed the same.

Subscribed and sworn to before me this day and year first above written, and I hereunto set my hand and seal.

[illegible]
Notary Public for Montana
Residing at Miles City Montana
My commission expires _____

[illegible] NOTARY PUBLIC for the
State of Montana, residing at
Miles City, Montana
My commission expires June 5, 1956

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That we, William E. Maguire, and John T. Maguire, of Anaconda, Deer Lodge County, Montana, have made, constituted and appointed, and by these presents do make, constitute and appoint our brother, James H. Maguire, of Silverton, Idaho, our true and lawful attorney, for us and in our names, place and stead and for our use and benefit, with full authority to make all contracts and to do all other acts of a business nature in connection with mining claims owned by us and situate in the Counties of Deer Lodge and Granite, Montana, including the conveyance of said mining claims, if at his discretion he deems it advisable, and as effectually as we would do if personally present, with power of substitution and revocation; and we do hereby ratify and confirm all acts that he may lawfully do in performance of this power.

Witness our hands at Anaconda, Montana, this 16th day of August, 1952.

William E. Maguire

John T. Maguire

Subscribed and sworn to before me this 16th day of August, 1952.

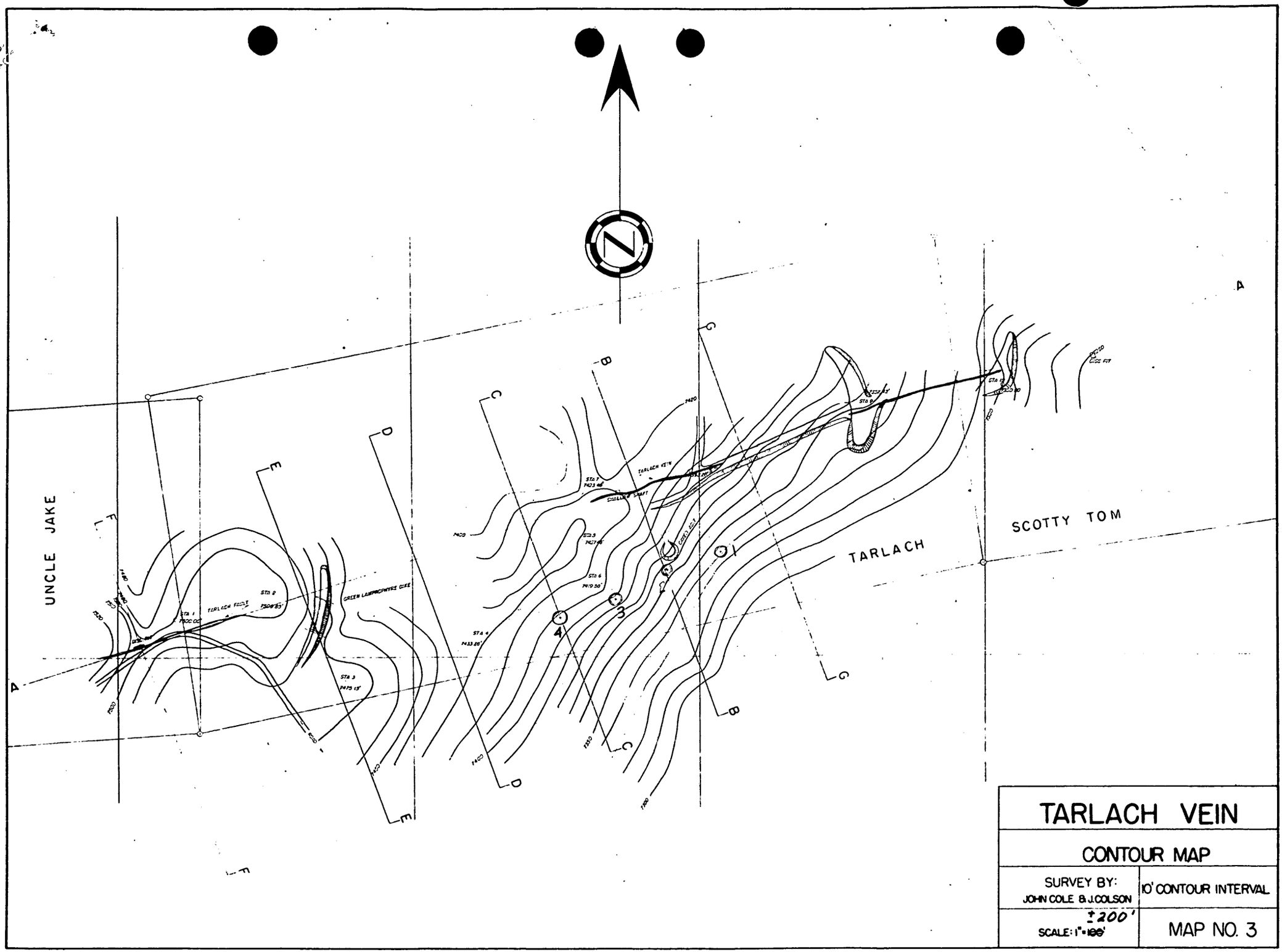
[illegible] Public [illegible] the State of Montana, [illegible]ding at Anaconda, Montana.
My [illegible] expires November 28, 1953.

Docket No. DMEA 3098

STORM LAKE TUNGSTEN

Deer Lodge County, Mont.
Sunshine Mining Company
Contract No. Idm - E 598
Scale: 1" = 40'

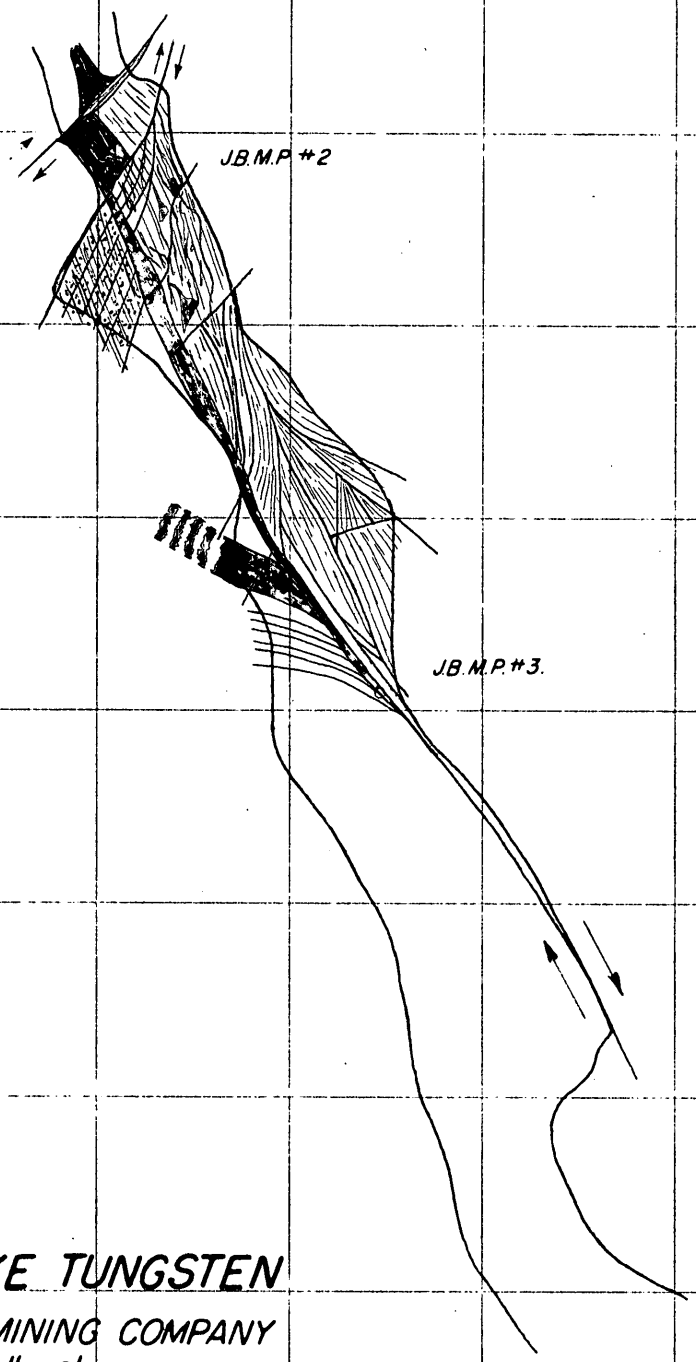
"ALBANENE" NO. 1903 R&LCO. N.Y. REG. U.S. PAT. OFF.



TARLACH VEIN

CONTOUR MAP

SURVEY BY: JOHN COLE & J. COLSON	10' CONTOUR INTERVAL
SCALE: 1" = ~~100'~~ ±200'	MAP NO. 3



STORM LAKE TUNGSTEN

SUNSHINE MINING COMPANY

1" = 10'

GEOLOGY OF PART OF THE AUGUST SHAFT "CRITICAL AREA"

Silified D.J. Limestone.

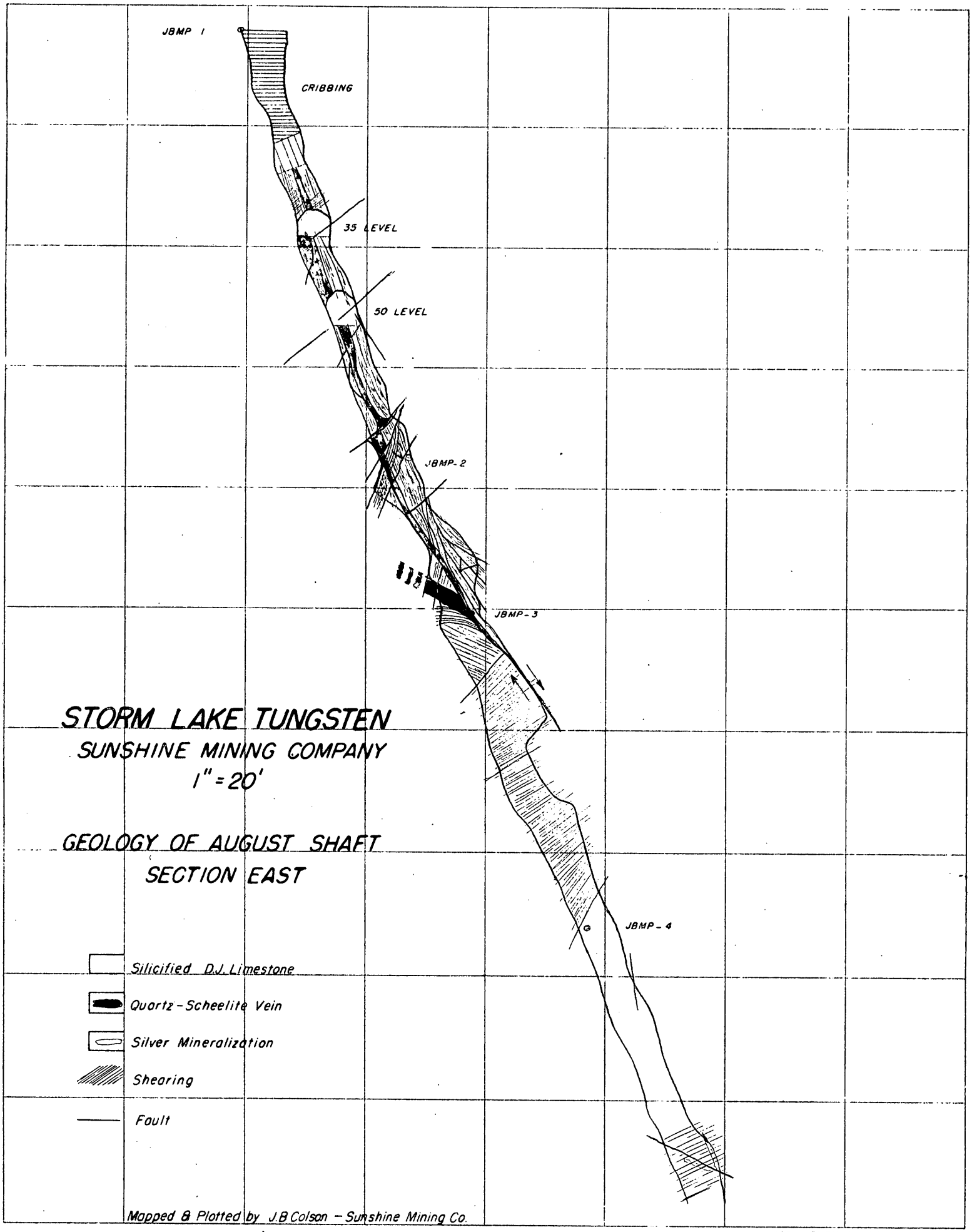
Quartz-Scheelite Vein

Fault.

J.B.M.P. #4.

Geology by J.B. Colson 3/23/54

"ALBANENE" NO. 190M K&E CO., N.Y.
REG. U.S. PAT. OFF.



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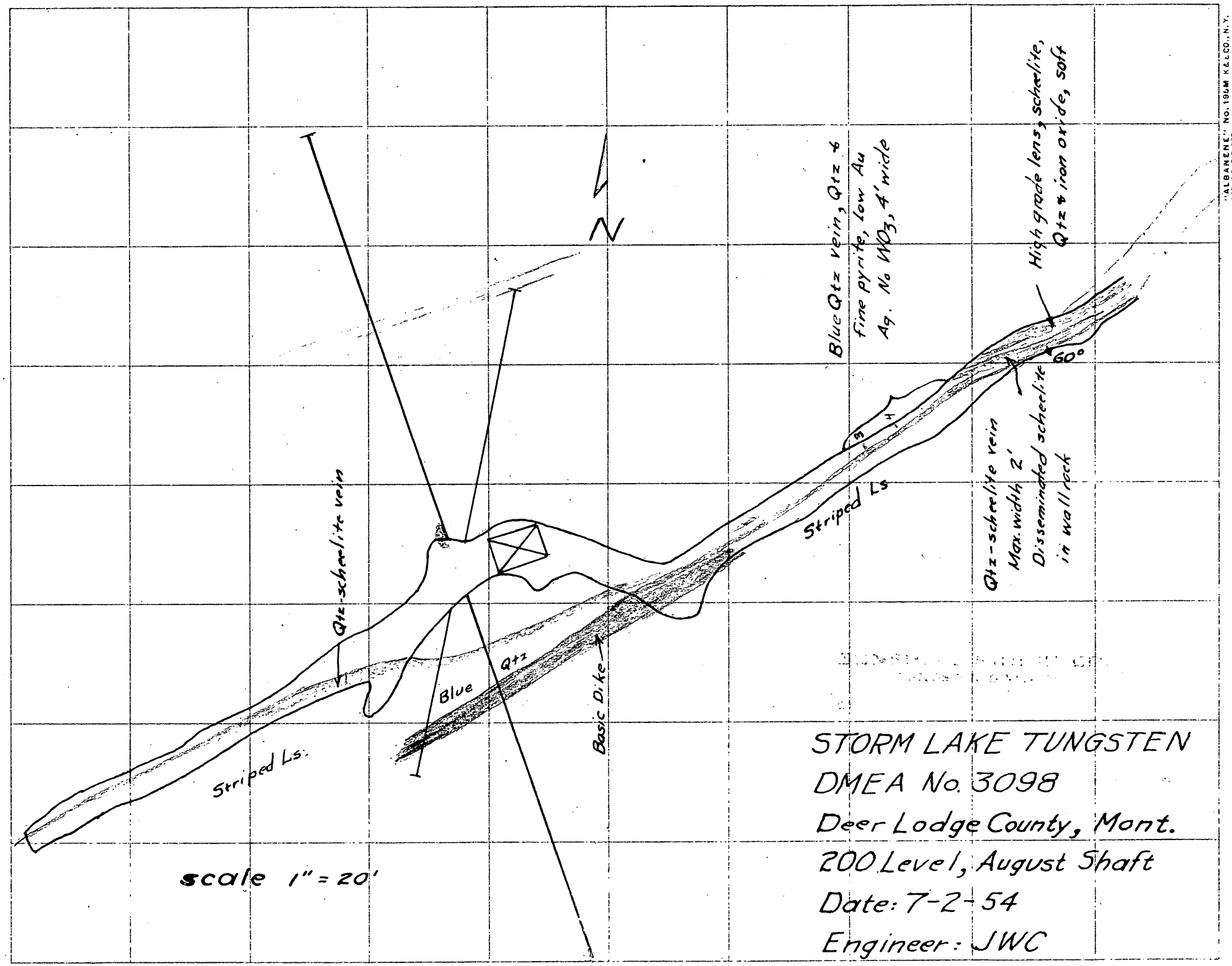
REG. U.S. PAT. OFF



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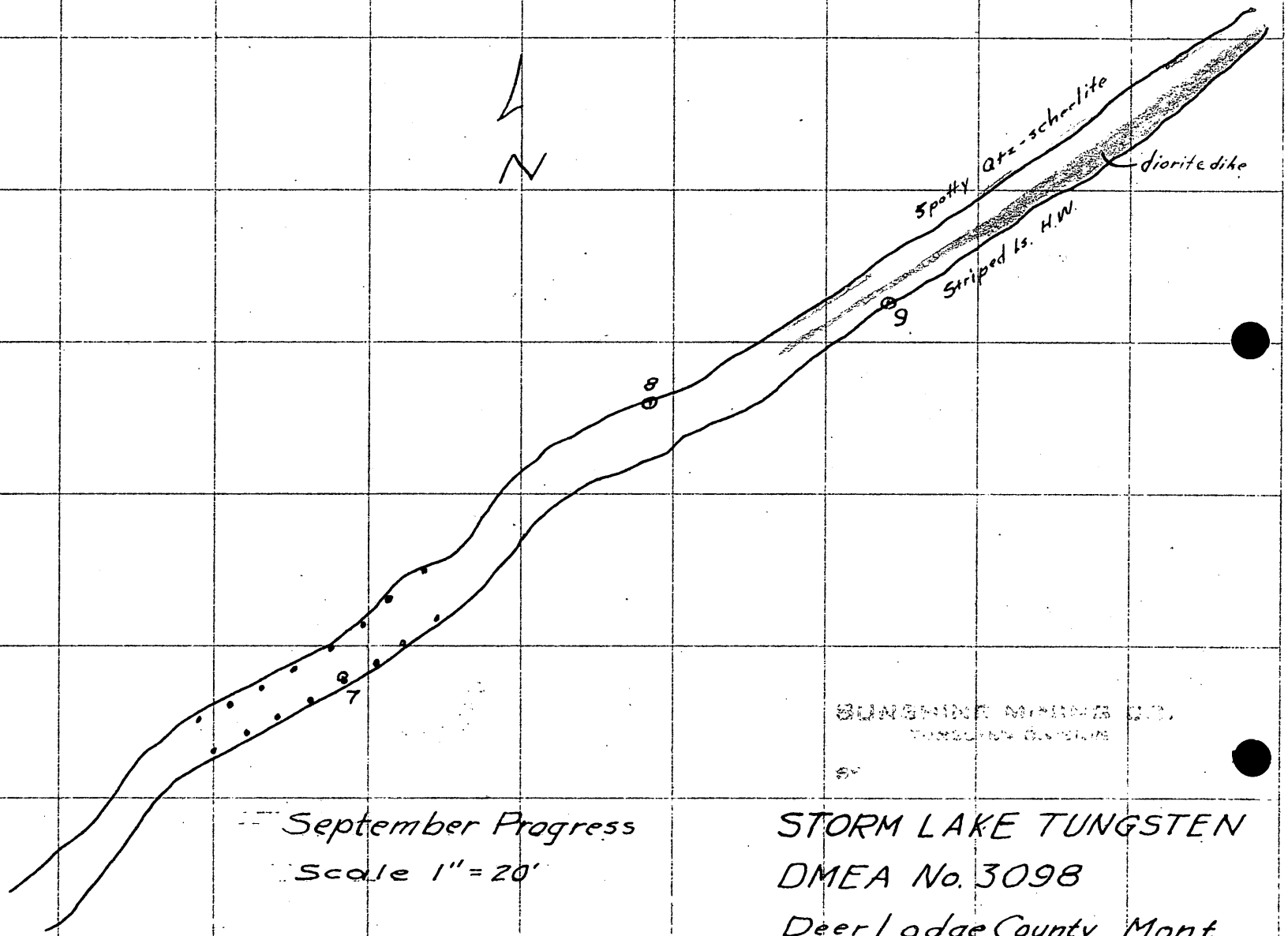
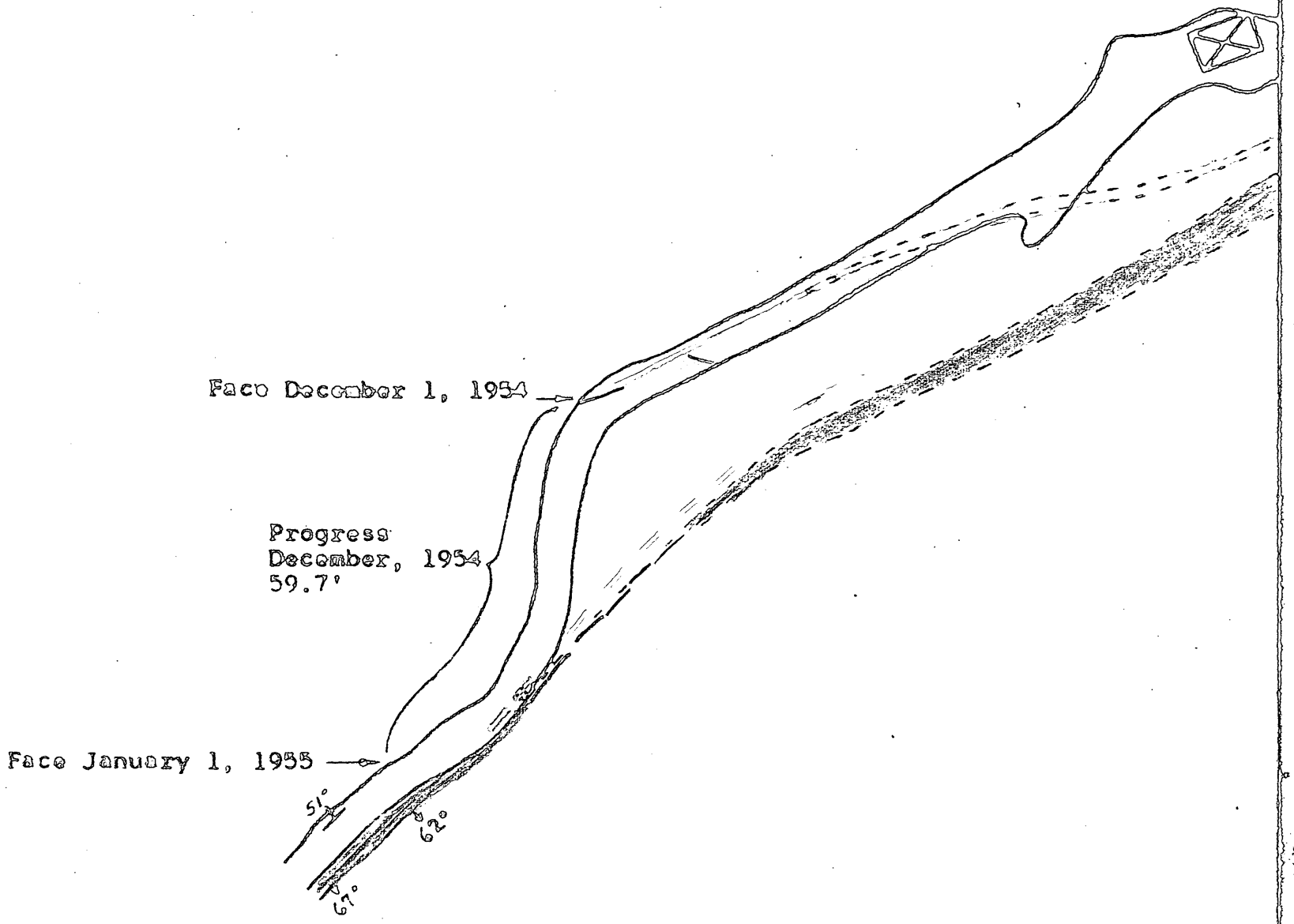


September Progress
Scale 1" = 20'

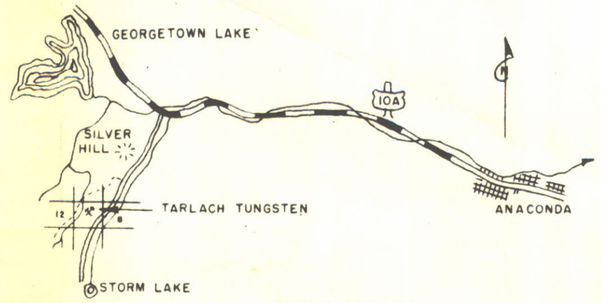
STORM LAKE TUNGSTEN
DMEA No. 3098
Deer Lodge County, Mont.
200 Level, August Shaft
Date: 9-4-54
Engineer: JWC

"ALBANENE" No. 165M K&E CO., N.Y.
REG. U.S. PAT. OFF

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Mineral Administration
RECEIVED
OCT 1 1955

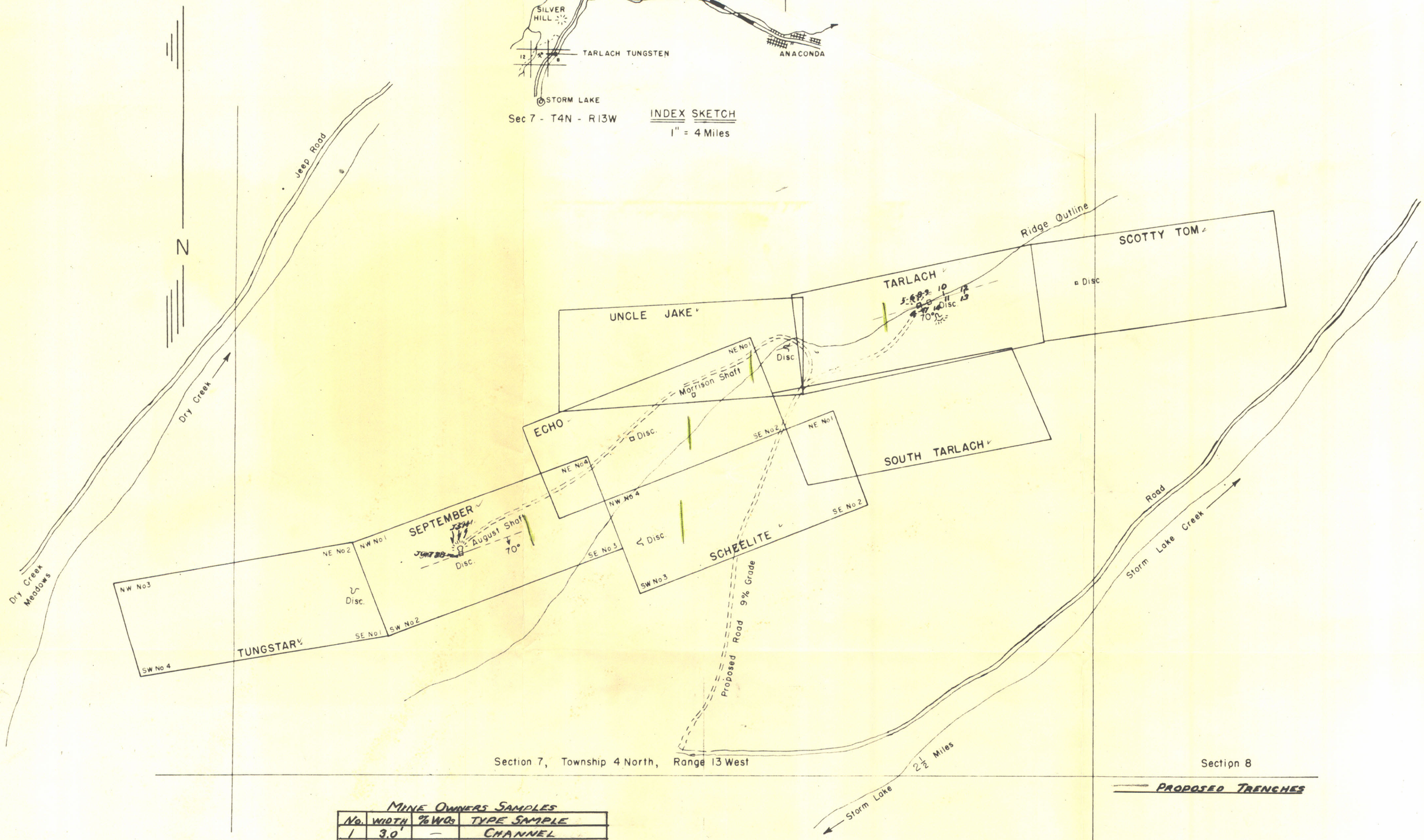


SUNSHINE MINING COMPANY
STORM LAKE PROJECT
200 Level August Shaft
Scale: 1" = 20'
DMEA Docket No. 3098
Contract No. Idm-E-598



Sec 7 - T4N - R13W

INDEX SKETCH
1" = 4 Miles



PROPOSED TRENCHES

MINE OWNERS SAMPLES

No.	WIDTH	% WO_3	TYPE SAMPLE
1	3.0'	—	CHANNEL
2	4.5'	—	"
3	5.0'	0.80	"
4	3.0'	0.60	"
5	2.6'	1.40	"
6	8.0	0.40	"
7	4.0'	0.02	"
8	6.0'	0.05	"
9	8.0'	1.10	"
10	2.0'	2.80	"
11	0.5'	5.70	"
12	7.0'	0.02	"
13		5.30	DUMP SAMPLE
14	0.93% Cu 9.90z Ag 6.4% WO_3 SELECT		

U.S BUREAU OF MINES SAMPLES

No.	WIDTH	% WO_3	Oz. Ag	Oz Au	% Cu	% Mo
JWT9B	1'	0.92	2.50	—	0.08	
JSM-1	DUMP	0.36	1.52	—	—	0.37
JSM-2	"	0.15	1.42	—	—	0.26
JSM-3	"	0.79	0.26	—	—	0.56

MAP No. 1

CLAIM MAP

STORM LAKE TUNGSTEN PROSPECT

DEER LODGE COUNTY, MONTANA

SCALE: 1" = 400'

Surveyed by: Elstone & Wallace
August 10, 1952

DMEA-3098