DEFENSE MINERALS EXPLORATION ADMINISTRATION

Division of Iron and Ferro-Alloys Division

Date March 3, 1958
(Revised 4.4.58)

Semi-Annual Report - Certified Project

Date June 30, 1956

DMEA No. 2654 Operator McRae Tungsten Corp. Contract No. Idm-E 406

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)	19,900	0.82% WO_3 * 16,329 units **
Increase (Operator)	None	
Total	19,900	0.82 " * 16,329 "
Decrease (Production)	None	
Net Available	19,900	0.82 " * 16,329 " **

Investment

No data shown

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

* Added from F. T. Final Report

** Estimated that only about one third accessible for mining.

Production remarks:

Mr. McRae advises that this mine will not be placed into production until the Snowbird mine ore has been depleted.

Other remarks:

None. The property was not accessible for inspection at the time of my trip to Boise on June 6, 1956.

Condemned Wingfield S.P.H.

200338

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 27 1958

DATE	INITIALS	CODE
1/28	C	220
28	Com	100

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: July 1 to December 31, 1957

Date of report: December 26, 1957

Operator: McRae Tungsten Corporation
1704 Gourley Street
Boise, Idaho

Mine name: Red Bluff group of claims

County and State: Valley County, Idaho

Docket number and commodity: DMEA-2654 (tungsten)

Contract number: Idm-E406

Property inactive. No change in royalty status since report of January 1 to June 30, 1956.

Signed: John D. Bardill (Engineer)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: January 1 to June 30, 1957 Date of exam: June 6, 1957

Operator: McRae Tungsten Corporation, 1704 Gourley St., Boise, Idaho

Mine name: Red Bluff group of claims

County and State: Valley County, Idaho

Docket number and commodity: DMEA-2654 (tungsten)

Contract number: Idm-E406

Project inactive. No change in status since report of January 1 to June 30, 1956.

Mr. McRae advised me at Boise, Idaho, on June 6, 1957 that this mine will not be placed in production until the Snowbird mine ore has been depleted and the price of tungsten increases so that the property may be operated profitably.

Signed: J. D. Bardill (Engineer)

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 11 1957

DATE	INITIALS	CODE
7/11	S.K.	220
11	Com	100

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JAN 22 1957
D.M.E.A.

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: July 1 to December 31, 1956 Date of exam: Dec. 12, 1956

Operator: McRae Tungsten Corp., 1704 Gourley St., Boise, Idaho

Mine name: Red Bluff group of claims

County and State: Valley County, Idaho

Docket number and commodity: DMEA-2654 (tungsten)

Contract number: Idm-E406

Project inactive. May get into production late in 1957. No change in status since report of January 1 to June 30, 1956.

Signed: John D. Bardill (Engineer)

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

406

RECEIVED
JUL 1 3 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: January 1 to June 30, 1956 Date of exam: June 6, 1956

Operator: McRae Tungsten Corp., 1704 Gourley St., Boise, Idaho

Mine name: Red Bluff group of claims

County and State: Valley County, Idaho

Docket number and commodity: DMEA-2654 (tungsten)

Contract number: Idm-E406

Date of contract: September 25, 1952

Date of certification: June 29, 1956

Expiration date of royalty payments: September 25, 1964

Total amount of contract: $53,800.00

Total expenditures under contract: $23,299.21

Amount of Government participation at 75%: $17,474.40

Royalty payments this period: none

Previous royalty payments: none

Total royalty payments to date: none

Percent Government participation repaid: none

Royalty due on production to date: none

Royalty remarks: none

Original estimate of reserves (from final Engr.-Geol. report): Indicated:
Block A : 6,080 tons containing 4,986 units WO_3
Block B : 13,833 tons containing 11,343 units WO_3
Estimated that only about one-third accessible for mining.

Increase (or decrease) of reserves by work performed subsequent to original and last Field Team estimates: none

Revised estimate of reserves: none

Production this period: none

Amount of previous production (since date of contract): none

Total DMEA production to date: none

Percent of revised reserves mined: none

Production remarks:

Mr. McRae advises that this mine will not be placed into production until the Snowbird mine ore has been depleted.

Other remarks:

None. The property was not accessible for inspection at the time of my trip to Boise on June 6, 1956.

Signed: John D. Bardill (Engineer)

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

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

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

D. O. Vou. No. 1

Bu. Vou. No. 1761

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

Voucher prepared at Spokane 4/27/56 (Give place and date)

THE UNITED STATES, Dr., Payee's Account No. Idm-E406

To McRae Tungsten Corporation (Payee)

1704 Gourley Street (Address) Boise, Idaho (City) (State)

PAID BY

(For use of Paying Office)

RECEIVED MAY 1 - 1956

No. and Date of Order	Date of Delivery or Service	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary) Discount Terms	QUANTITY	UNIT PRICE Cost	UNIT PRICE Per	AMOUNT Dollars	AMOUNT Cts.
	Aug. 1955	Balance withheld under Voucher #1666 paid 12/12/55				4,035.00	
	Feb. 1956	MF-104 dated 2/7/56 after audit adjustments and salvage proceeds credit				(1,172.95)	
PAYMENT: Complete ☐ Partial ☐ Final ☐		Plus check received from Starline Equipment Co. for salvage				603.75	
		Use continuation sheet(s) if necessary			Total	3,465.80	

Shipped from to Weight Government B/L No.

(Payee must NOT use this space)

Differences

Account verified; correct for 3,465.80

(Signature or initials) M.P.

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

MEMORANDUM

ACCOUNTING CLASSIFICATION (For completion by Administrative Office)

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

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

Paid by { Check No. _____ dated _____, 19____, for $_____ / Cash, $_____, on _____, 19____. } on Treasurer of the United States in favor of payee named above.

16—22900a-2

METHOD OF OR ABSENCE OF ADVERTISING

METHOD OF ADVERTISING

1. Advertising in newspapers Yes ☐ No ☐.
2. (*a*) Advertising by circular letters sent to ..... dealers.
   (*b*) And by notices posted in public places Yes ☐ No ☐.

   (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made below.)

ABSENCE OF ADVERTISING

3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with .....
5. Without advertising, it being impracticable to secure competition because of .....

.....

.....

.....

.....

(Here state in detail the nature of the exigency or circumstances under which the securing of competition was impracticable under 3 and 4)

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal, and acceptance, or less formal agreement) Standard Form No. 1036—Revised should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, as amended.)

☆ U. S. GOVERNMENT PRINTING OFFICE : 1950 O—75805

16—22000a-2

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAY 7 - 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1956 Docket No. DMEA 2690 Contract No. DMEA-2690
Operator's Name McRae Tungsten Co. Minerals Tungsten
Address 1724 Gowen St. Boise, Idaho
Contract Amount, $53,000.00 Government Participation: 75 % Amount, $40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling		5171.87	5171.87		5171.87	5171.87
Bulldozing		2200.00	2200.00	11.73	2200.77	2212.50
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor		5433.22	5433.22	[illegible]	5433.22	5267.99
Supervision	330.00	2900.00	3230.00	[illegible]	2830.00	2700.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		281.66	281.66	[illegible]	281.66	268.36
Explosives		832.72	832.72		832.72	832.72
Pipe		137.24	137.24		137.24	137.24
Track		806.22	806.22		806.22	806.22
Diesel Gas		622.17	622.17	6.33	628.17	634.50
Etc.		334.56	334.56	89.69	334.56	424.25
(4) Operating Equipment:						
Rental		233.13	233.13	[illegible]	233.13	—0—
Purchase		2360.00	2360.00	233.13	2360.00	2593.13
Depreciation		206.71	206.71	[illegible]	206.71	89.57
(5) Initial Rehabilitation and Repairs		349.32	349.32	[illegible]	349.32	149.32
(6) New Bldgs., Improvements, etc.		913.13	913.13		913.13	913.13
(7) Miscellaneous:						
Repairs to Equipment		260.15	260.15	1.07	260.15	261.22
Sampling and Analysis	40.00	232.50	272.50	40.00	232.50	272.50
Payroll Taxes	14.92	380.10	394.02	13.82	380.10	393.92
Liability Insurance	9.05	471.37	480.42	17.03	471.37	488.40
Shop Overhead		800.30	800.30	120.57	800.30	920.87
Bonds on Contracts	36.05	36.05	36.05	36.05		36.05
(8) Contingencies (specify):						
salvage proceeds				[illegible]		[illegible]
TOTALS	430.02	24,863.22	25,293.61	1513.92	24,863.14	23,299.21

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

Date 2/7/56 *Payee McRae Tungsten Corp

Per Robert J. McRae Title President.

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

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

(Instructions on reverse)

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

$ —0—

Signature M&P
(Authorized Certifying Officer)

Date 4/27/56 Vou. No. 1761
(See other side)

adjusted to final audit report

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 406 in accordance with the terms of the contract.

Signature 1S1 John D. Bardill Title Metallurgist Date 4/25/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1S1 A. E. Weissenborn Title Exec. Officer Date 4/25/56

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
MAY 7 - 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Feb. 195 6 Docket No. DMEA 2654 Contract No. IDM-F406
Operator's Name McRae Tungsten Corp. Minerals Tungsten
Address 1704 Courtley St. Boise, Idaho 40,350.00

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			10,526.94	295	35.87	380	
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	Ft			5,171.87	1004	5.151		8.00
Churn								
Auger								
~~Shipping~~ Freight				36.05				
~~Trenching~~ Assay				158.00				
Test Pits								
Roads and Trails				2,500.00				
D. Drill Sites				200.00				
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased				2,360.00				
Initial Rehabilitation and Repairs				200.00				
New Buildings, Improvements, etc.				913.13				
				3,207.62				
Total Costs				25,273.61				

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 2/7/56 Operator McRae Tungsten Corp

Per Robert J McRae Title President

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

(Instructions on reverse)

Remarks:

(For Government use only)

/s/ John D Bardile

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

FINAL PROGRESS REPORT

DMEA 2654
Contract IDM E-406

Red Bluff

This report covers all activity up to the final audit of the subject contract.

During September, November, December 1955, maps, logs, and sampling and assaying of cores was completed. In December a final report was made up and this has been accepted. In January the jointly owned equipment and buildings were disposed of by competitive bids. During the first week in February the final audit was initiated. When the audit is completed it would appear the contract can be closed.

The accompanying voucher covers mostly supervision in the preparation of final maps, samples, reports, sale of equipment and final audit. The four days of supervision back in May, 1954 were for the preparation of final maps, reports, etc. on Stage III of the contract.

No production is planned from the Red Bluff property in the near future. There will be production from the Snowbird starting in June, 1956.

Robert J. McRae

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

1201 N. Division St.
Spokane 2, Washington
October 27, 1955

RECEIVED
NOV - 8 1955

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: John D. Bardill, Bureau of Mines

Subject: Final inspection report, Docket No. DMEA-2654 (tungsten), McRae Tungsten Corporation, Red Bluff Claims, Valley County, Idaho, Contract No. Idm-E406

This project was discussed with Mr. Oliver A. McGinley, mine superintendent, at Big Creek, Idaho, on October 6, 1955. A snowstorm the previous day covered the ground with about a foot of snow. Since the diamond drilling had been completed on August 31, the site proper was not visited.

The drilling was started during the first week of August 1955.

Five holes aggregating 1,004 feet were drilled to prospect for the horizontal and vertical extensions of the ore shoot. Holes P-1 and P-4 were drilled on either end of the ore shoot. Both holes penetrated the structure but tungsten mineralization was sparse.

Hole P-2 located between P-1 and D.D.H. No. 2 cut the structure but mineralization was sparse.

Hole P-3 near D.D.H. No. 5 cut 4 to 5 feet of good grade hubnerite ore estimated to assay 2.5 percent WO_3.

Hole P-6 was drilled to cut the ore about 70 feet below the ore found in Hole P-3. The hole was drilled to a depth of 349 feet, at a minus 45° angle, without encountering the ore structure which may mean that the west wall is considerably out of its normal position.

Amendment No. 4 to the contract transferred 1,020 feet of unused diamond drilling footage from Stages I and II to Stage IV to further delineate the ore zone indicated by previous underground exploratory work.

The following diamond drilling footage was completed and allowed under Stage IV of the contract:

Hole	P-1	122.0 ft.
"	P-2	197.0 "
"	P-3	186.5 "
"	P-4	149.0 "
"	P-6	349.0 "
		1003.5 "

The drill cores have been logged and the locations of the holes mapped by Geological Survey geologists.

A Certification of Discovery will be recommended and a Field Team final report drafted.

John D. Bardill

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

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

RECEIVED
OCT 10 1955

September 1, 1955

Memorandum

To: DMEA Field Team, Region I, Northwest District

From: Donald F. Kellum, Geologist, U. S. Geological Survey

Subject: Interim inspection, Docket No. DMEA 2654 (tungsten), McRae Tungsten Corp., Red Bluff Claims, Valley County, Idaho, Contract No. Idm-E406

An inspection of the property was made with Tom N. Huber, Field Assistant, Geological Survey, on Friday, August 19, 1955. Mr. Harold Seargeant, general superintendent, and Mr. Oliver A. McGinley, mine superintendent, were at the property.

Surface drilling to test the downward extension of the silicified hubnerite-bearing zone exposed by previous underground and surface exploration had been completed in three of the seven proposed holes for an aggregate of 505 feet. The approximate position of these completed holes, designated P-1, P-2, and P-3, are indicated on the map accompanying Amendment No. 4 of the contract. A fourth hole, P-4, was being drilled at the time of inspection.

With the exception of two dikes, rock intersected by drilling consisted of moderate to highly sheared and silicified fine grained dark rock, probably an argillite, and a siliceous coarse grained altered and silicified plutonic rock closely resembling the more intensely silicified portions of the argillite. Due to this large amount of siliceous replacement it is difficult in core examination to define the physical limits of the particular siliceous zone outlined by previous work. The vein as exposed underground, in surface trenching, and particularly in the present drilling, more nearly represents a zone of almost complete silica replacement containing areas of less thoroughly replaced material and having either sharp or gradational contacts with similar appearing sheared and silicified argillite. Smaller, almost completely silicified areas occur sporadically to each side of the main zone.

Core from DDH's P-1 (E-W, -45°, 122') and P-2 (E-W, -45°, 197'), testing the northern extension of the hubnerite zone, was essentially barren and only one crystal of hubnerite was noted in each of the holes. The position of these traces indicates that the hubnerite probably occurs as scattered low grade pods within or associated with the main zone of silicification in this area.

DDH P-3 (E-W, -45°, 186'), testing the area immediately beneath the south end of the underground workings, intersected 3 feet of disseminated hubnerite between footages 131.5 and 134.5 as well as sparse showings at 124 feet and 157.8 feet. In section, these intersections correspond to hubnerite zones mapped in the main drift and west crosscut at the south end of the main drift. A probable southward rake on the order of 35 to 45° is indicated by the 3-foot intersection of hubnerite in the drill hole and the corresponding ore mapped in the drift above. Previous raising and winzing on ore at the north end of the underground workings also indicates that there is a southward rake to these hubnerite bodies although at a lesser angle than indicated by the present work.

DDH P-4 (E-W, -45°, 127'), placed to test the southward extension of the hubnerite zone near its intersection with a large dacite dike occurring southeast of the mine area, was collared in dike rock and directed westward to cut the dike contact with the silicified country rock. At the time of inspection, this hole had been advanced through the dike, and had intersected a broken zone in siliceous rock adjacent to the dike for a distance of 25 feet. As such an extensive broken zone did not occur at the dike contact where cut by previous drilling, it was believed by Mr. McGinley that the drill had been deflected downward and was following a broken zone at the dike contact. Drilling was to continue for approximately 10 feet and if still in the broken and barren zone the hole would be stopped.

The results of completed drilling were discussed with Mr. McGinley, who also relayed information given him by Mr. McRae concerning proposed locations of further drilling. It was agreed that the results of hole P-3 warranted continuing in the mine area, and that DDH P-6 should be relocated further south of its proposed position in order to intersect the indicated south rake of the ore body exposed in the north end of the adit. The remaining holes, P-5 and P-7, will be used in this area also.

At present the personnel at the mine, in addition to drilling, are enlarging the mill and intend to operate through the winter. Access during the winter will be by intermittent snowcat trek from Big Creek airfield, communication by short wave radio.

Distribution:
DMEA (4)
USBM (2)
USBM (AD)
Docket
Kellum

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

Budget Bureau No. 42-R1036.5

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

RECEIVED
DEC 16 1955

Month of August, 1955 Docket No. DMEA 2654 Contract No. Idm-400
Operator's Number 5 Minerals Tungsten
Address McRae Tungsten Corp. 1704 Courtley St. Boise, Idaho
Contract Amount, $ 53,500.00 Participation: 75 % Amount, $ 40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling 5171.87	5171.87		5171.87	5171.87	—0—	5171.87
Bulldozing		2200.77	2200.77		2200.77	2200.77
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor		5433.22	5433.22		5433.22	5433.22
Supervision	600.00	2230.00	2830.00	600.00	2230.00	2830.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		281.66	281.66		281.66	281.66
Explosives		832.72	832.72		832.72	832.72
Pipe		137.24	137.24		137.24	137.24
Track		806.22	806.22		806.22	806.22
Fuel gas		628.17	628.17		628.17	628.17
Steel and bits		334.56	334.56		334.56	334.56
Wire						
(4) Operating Equipment:						
Rental		233.13	233.13		233.13	233.13
Purchase		2360.00	2360.00		2360.00	2360.00
Depreciation		206.71	206.71		206.71	206.71
(5) Initial Rehabilitation and Repairs		349.32	349.32		349.32	349.32
(6) New Bldgs., Improvements, etc.		913.13	913.13		913.13	913.13
(7) Miscellaneous:						
Repairs to Equipment		260.15	260.15		260.15	260.15
Sampling and Analysis		232.50	232.50		232.50	232.50
Payroll Taxes	28.20	351.90	380.10	28.20	351.90	380.10
Liability Insurance	15.00	456.37	471.37	15.00	456.37	471.37
Snow removal		800.30	800.30		800.30	800.30
(8) Contingencies (specify):						
TOTALS	5815.07	19,048.07	24,863.14	5815.07	19048.07	24863.14

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

Date Sept 9, 1955 *Payee McRae Tungsten Co.

Per Robert J. McRae Title President

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

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

(Instructions on reverse)

4 361.30
withheld 4035.00
326.30

1 Cy Transmittal
Mat'l Recap Rent
[illegible]

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

$ 326.30

Signature M. [illegible]
(Authorized Certifying Officer)

Date 12-12-55 Vou. No. 1666
(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 406 in accordance with the terms of the contract.

Signature 1S1 Stephen W Zoldok Title Mining Engr Date 12-12-55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 1S1 Stephen W Zoldok Title Mining Engr Date 12-12-55

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

RECEIVED
DEC 16 1955

XXXXXXXXXXXXXXXXXXX
1201 N. Division St.
Spokane 2, Washington
December 9, 1955

Mr. Robert J. McRae, President
McRae Tungsten Corporation
1704 Gourley Street
Boise, Idaho

Re: Docket No. DMEA-2654 (tungsten)
Red Bluff Property
Valley County, Idaho
Contract No. Idm-E406

Dear Mr. McRae:

This will acknowledge your December 6 letter concerning disposition of equipment and your August voucher.

We are sorry that we failed to acknowledge receipt of your August voucher as soon as it was received.

No doubt you will submit another voucher for assaying and costs attendant to winding up the project. If you can dispose of the jointly-owned equipment and submit your final voucher this December, we can audit your account the first part of January 1956. Will you please let us know where your books are kept so that we can inform the auditor?

Regarding partial payment on your August voucher, it is standard procedure to withhold from the last voucher or vouchers 10 percent of the maximum total amount which the Government might have been called upon to pay under the terms of the contract, in this case $4,035.00. (See Article 8a of the contract.) We are therefore releasing for payment the difference between $4,361.30 (which is 75 percent of $5,815.07, the amount of your August voucher) and $4,035.00, or $326.30.

By Field Team, Region I, NW District

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

Thomas E. Howard, Acting Member
U. S. Bureau of Mines

cc: DMEA (2)
USGS (2)
USBM (AD)
Turner
Wash. (2)

Form MF-104A
(April 1952)

Drilling Only

Budget Bureau No. 42-R115

400

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1955 Docket No. DMEA 2054 Contract No. Idm-2400
Operator's Name McRae Tungsten Co. Minerals Tungsten
Address 1704 Gourley St. Boise, Idaho

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft	$5171.07	1004	$5171.07	1004	$5.151		$8.00
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Supervision and P/R Taxes		$643.20 / $5815.07		$643.20 / 5815.07				

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

Date Sept. 8, 1956 Operator McRae Tungsten Co.

Per Robert J. McRae Title President

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

Remarks:

(Instructions on reverse)

(For Government use only)

RECEIVED
NOV 14 1955

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

PROGRESS REPORT FOR AUGUST 1955

RED BLUFF

D.M.E.A. 2654
CONTRACT I D M E-406

The drilling program on the Red Bluff got under way during the first week in August and finished on August 31. Michels and Thompson were engaged to do the drilling on a shift basis. The rate agreed upon was $125.00 per 8 hour shift.

During the month 5 holes were drilled totaling 1004 feet. The locations are plotted on the plan map. The actual drilling cost came to $5.151 per foot with supervising engineer and payroll taxes $643.20. Total cost $5.791 per foot. Later there will be some charges for assaying and analysis. 24.3 ft./shift

There are core logs accompanying this report. The core has not yet been split for assaying.

The drilling results are briefly described. Holes P - 1 and P - 4 were drilled on either end of the ore shoot to check on the length of the shoot at some depth. Both found the ore structure but tungsten mineralization was sparse.

Hole P - 2 cut the ore structure but the tungsten mineralization in this hole was also weak.

Hole P - 3 cut the ore structure with 4 to 5 feet of good grade and 18 to 20 additional feet containing hubnerite.

Hole P - 6 was drilled to cut the zone deeper than any previous holes. Since P - 3 found ore hole P - 6 was directed to cut under P - 3 by 60 to 70 feet. It was believed that P - 6 might show up a possible south rake to the ore shoot. Hole P - 6 started in dacite and continued in dacite for 297 feet.

This situation indicates a shift in the west wall of the dacite by over 100 feet. Whether this represents a fault displacement or a flattening of the dip of the dacite toward the west cannot be determined. At least the position of the west wall of the dike is considerably out of its normal position. The last 50 feet of P - 6 was in spilitic material but it did not show any tungsten mineralization.

As soon as time permits some of the core will be split for assay. Sections will also be worked up on the holes.

COPY

Bearing - West RED BLUFF MINE

Inclination - 45° Hole P 1

Elevation - 8036 ft.

FOOTAGE	DESCRIPTION	PER CENT CORE REC.	CORE SIZE
0' - 5'	Aplitic Quartz, Pyrites, some Sulphides	95%	B X
14.5' - 18'	Aplitic Quartz Alteration weak in minerals	30%	B X
18' - 20'	Appears same as above	05%	B X
20' - 21.5'	Appears same as above	15%	B X
21.5' - 23'	Appears same as above	85%	B X
23' - 30'	Schistose Sediments some sulphides	65%	A X
30' - 43'	Igneous, rhyolite	95%	A X
43' - 53'	Sheared Silicified Schistose some sulphides	80%	A X
53' - 55.5'	Quartz trace hubnerite at 54', Pyrite, Galena, Fluorite	95%	A X
55.5' - 64'	Metamorphic Sulphides, pyrites - abundant sulphides	75%	A X
64' - 70.5%	Same as 55.5' to 64'	60%	A X
70.5' - 122'	Metamorphics with bands pf Aplite, Pyrite, Galena, Sphalerite, Fluorite	85%	A X

End of Hole 122'

COPY

Bearing - West RED BLUFF MINE

Inclination - 45° Hole No. P 2

Elevation 8030 ft.

Footage	Description	Per Cent Core Rec.	Core Size
0' 17'	Broken dike material	65%	B X
17' - 25.5'	Brecciated Quartz, Dark Sulphide Assay Av A6 WO_3	75%	A X
25.5' - 38'	Quartz, some pyrites, fine sulphides possible fluorites	50%	A X
38' - 44'	Quartz, some pyrites and sulphides	66 2/3%	A X
44' - 47'	Aplitic Quartz, pyrite, flourite	85%	A X
44' - 77.5%	Aplitic material with sulphides	80%	A X
77.5' - 84'	Quartz, pyrites, fluorites	85%	A X
84' - 86'	Quartz, strong sulphides	95%	A X
86' - 88.0'	Quartz	70%	A X
87.8' - 104'	Rhyolite Dike	75%	A X
104' - 112'	Dark Sheared Quartz very strong in sulphides, pyrites, fluorites	60%	A X
112' - 114'	Vein Quartz, Sulphides	25%	A X
114' - 117'	Vein Quartz, Sulphides	75%	A X
117' - 131'	Vein Quartz, Sulphides (116' - 131' some Hubnerite)	95%	A X
131' - 136'	Quartz, weak sulphides, pyrites	95%	A X
136' - 142'	Aplite, sulphides	95%	A X
142' - 143'	Quartz included schist		
143' - 146'	Aplite and included schists with pyrites	96%	A X

COPY

Bearing - West RED BLUFF MINE

Inclination - 45°

Elevation 8030 ft.

FOOTAGE	DESCRIPTION	PER CENT CORE REC.	CORE SIZE
146' - 153.5'	Aplite and included schists with pyrites, but less pyrites	65%	A X
153.5' - 158.5'	Aplite and schist, quartz pyrites	65%	A X
158.5' - 162'	Altered Aplite	45%	A X
162' - 184.5'	Schist, some alteration, some pyrites	95%	A X
184.5' - 197'	Pyritic Schist	50%	A X
	End of Hole 197'		

COPY

Bearing -- West RED BLUFF MINE

Inclination -- 45° Hole No. P 3

Elevation -- 8087 ft.

FOOTAGE	DESCRIPTION	PER CENT CORE REC.	CORE SIZE
0 - 12'	Rhyolite	75%	B X
12' - 101'	Altered Decite Dike	80%	A X
101' - 109'	Rhyolite Dike	80%	A X
108'4" - 112'	Dark Silicified Metamorphics	95%	A X
112' - 119'	Vein Quartz and Hubnerite	90%	A X
119' - 124'4"	Vein Quartz Bands and Hubnerite	90%	A X
124'4" - 125'4"	Quartz vein with Hubnerite	98%	A X
125'4" - 128'	Quartz, Limonite, Fluorite, Trace Hubnerite	98%	A X
128' - 131'	Aplitic Quartz	80%	A X
131' - 135'	Hubnerite vein in good quartz - 2.5% WO_3		
135' - 140'6"	Metamorphic quartz some sulphides, oxidization	75%	A X
144' - 146'	Metamorphic and Quartz Bands Hubnerite malybdenite	75%	A X
146' - 163'	Aplitic Quartz	40%	A X
163' - 169'	Aplite and Pyrite	85%	A X
169' - 176'	Silicified Sediments - quartz pyrites, fluorite	85%	A X
176' - 186'6"	Aplite, some pyrites - moly.	95%	A X

End of Hole 186' 6"

COPY

Bearing - West RED BLUFF MINE

Inclination - 45°

Elevation - 8110 ft. Hole P 4

FOOTAGE	DESCRIPTION	PER CENT CORE REC.	CORE SIZE
0' - 10'	Dike rock Dacite	90%	B X
10' - 78'	Dike rock Dacite	90%	A X
78' - 86'	Altered and fractured	50%	A X
86' - 99'	Dike, some quartz		
99' - 105'	Altered Aplitic Rock	30%	A X
105' - 115'	Vein Quartz, Sulphides	20%	A X
115' - 149'	Aplite, Quartz, Sulphides	35%	A X

End of Hole

COPY

Bearing - S 70° W

Inclination - 45°

Elevation - 8065 ft.

RED BLUFF MINE

Hole P 6

FOOTAGE	DESCRIPTION	PER CENT CORE REC.	CORE SIZE
0 - 295	Dacite Dike	80%	A X
295 - 349	Aplite mixed with sediments, some sulphides, no hubnerite	70%	A X
	End hole 349 ft.		

COPY

Docket

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

September 1, 1954

WSM

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA 2654 (tungsten), Routine inspection, McRae Tungsten Corporation, Red Bluff Claims, Valley County, Idaho, Contract No. Idm-E406

On Wednesday, August 25, 1954, Don Kellum, Geological Survey, and I made a routine inspection of the McRae Tungsten Red Bluff claims, Valley County, Idaho. Mr. Robert McRae was at the property.

No new work had been done on the Red Bluff claims since the last routine inspection by Mr. Anderson and Mr. Nickelson on July 14 and 15, 1954.

Mr. McRae was at his mill currently preparing to do some more milling of ore from the Snow Bird claims. He accompanied us to the Red Bluff claims and explained to us the various aspects of the geology on his property. We made a cursory inspection of the underground workings and noted several additions in the details of the geology which was on the map prepared by earlier examiners.

We discussed with Mr. McRae his recent proposal to drive two raises from the adit level on the Red Bluff claim. Although he has a fairly persistent quartz vein exposed on the surface which is quite well mineralized with hubnerite and apparently this same vein is exposed in the adit level, he is not able to correlate the two satisfactorily. Diamond drilling, which was completed on the property prior to the beginning of DMEA contract work, showed that there are hubnerite-bearing quartz veins both to the east and to the west of that quartz vein exposed in the adit. According to Mr. McRae, the grade of the mineralized rock in the adit is not sufficiently high to encourage him to begin mining operations on it until he learns

more of the character of the vein between the adit level and the surface; consequently, he has proposed one or two raises from the adit level to more fully explore the characteristics of this vein between the lateral and the surface.

Mr. McRae has driven a short raise at the north end of the vein on the adit level and has sunk a short winze near where the crosscut intersects the vein. This work has indicated to him that the ore shoots in the vein are raking southward at a very flat angle; therefore, it may be that the veins which he has found by diamond drilling may continue to the adit level, but the ore shoots within the vein may rake southward beyond the limit of the adit. The south end of this adit is only a short distance from a very thick dacite dike which trends northeastward. It seems to be the general characteristics of the veins in the area to strike north-south and the large dacite dikes to strike more northeastward. Therefore, the general structural pattern is that the dacite dikes follow major shears and the quartz veins are fracture fillings which fill minor shears trending at angles to the main dacite dikes. This is supported in part by the fact that to the southeast of the main dacite dike, hubnerite has been found in quartz veins.

Even though the adit on the Red Bluff claims is some 60 to 70 feet below the surface, and the quartz vein is exposed on the surface and in the adit level, there seems sufficient justification for at least one raise to be driven to explore these veins between the surface and the adit level. This, in a sense, is development but, inasmuch as Mr. McRae is attempting to carry out a mining operation in an inaccessible part of the country where mining costs are high and the working season is short, it is believed that DMEA participation in driving a raise is justified. If this raise is successful in following the vein to the surface and shows that it contains minable ore, then Mr. McRae can be encouraged to continue with his mining and milling operations through the winter, the source for his ore being from his underground workings on the Red Bluff claim. Mr. McRae stated that he has requested that perhaps his contract could be amended to change it to an unit-cost project. As an afterthought, though, he stated that if this would take too long, so that approval could not be obtained before the winter season sets in, he would be very willing to leave the contract on an accrued cost basis with a limit to which the Government would participate in the cost per foot of driving the raise.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
1201 N. Division Street
Spokane 2, Washington
July 30, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: W. S. Anderson, Mining Engineer, Bureau of Mines

Subject: Routine inspection, McRae Tungsten Corporation (Red Bluff property), Valley County, Idaho, Contract Idm-E406, Docket No. 2654 (tungsten)

The Red Bluff property was visited July 14 and 15, 1954 accompanied by Howard Nickelson of the U.S.G.S. Mr. Robert J. McRae, President, McRae Tungsten Corporation, accompanied the Field Team representatives on an examination of the work completed under the exploration project contract.

The Operator has completed 174 feet of crosscutting and 134 feet of drifting as is shown on the plan map which will be submitted with Howard Nickelson's report. In addition to the above work the Operator has driven a short raise from the face of the north drift, and started an incline winze near the intersection of the adit crosscut and the drift. This work was completed on company account.

The Operator in his April MF-104, which was the last one submitted, turned in as completed a total of 295 feet of drifting and crosscutting. The total charge submitted to date is $19,048.07, which leaves a balance of $34,751.93 to be expended under the contract.

Withheld for additional

There was from 1 to 3 feet of water in the drifts and crosscuts as they had not been driven on the proper grade to insure drainage.

The Operator stopped work under the contract in May, 1954, and the major portion of supplies and equipment have been removed from the property except the items as listed below:

Equipment and Supplies

1	Mine car
1	Barrel pump
1	Pick
2	Boxes 45% Dupont Gelex #2
1	Reel slusher cable
15	5'-1" hexogonal steel
2	Starters " "
25'	Air hose
165'	1½" pipe
400'	12# rail
1	Frame combination compressor and storage shed

The following items of equipment have been removed from the property and are now being used in mining operations at the Snowbird property (Contract Idm-E133).

1	Ingersoll-Rand portable compressor Model GK-105, Serial No. 406-31445
1	Ingersoll-Rand J-40 jackhammer and jackleg, Serial Nos. 673946 and L13018

Mr. McRae was informed that equipment and supplies purchased for exploration work on the Red Bluff property should not have been removed and used on the Snowbird property for mining purposes. He was told that the Government should receive remuneration for use of the equipment at the Snowbird property.

The Operator does not plan on doing any further exploration work at the Red Bluff property this year. He is concentrating his efforts on mining ore from the Snowbird property to provide feed for the mill he has erected at the property.

It was suggested to Mr. McRae that the contract should be terminated by mutual agreement rather than allowing a recess as he did not have any definite plans for resuming operations. He stated that he would write the Field Team a letter stating his intent as soon as the matter was discussed with the other members of the corporation.

The Operator is treating approximately 10 tons of ore per day in his mill. (A flow sheet and photographs of the mill are attached.) The heads run 0.96 WO_3 and the tails run 0.19 for a recovery of approx--imately 80%. On the date of the visit the operator had 200 units of WO_3 stored in the mill ready for shipment.

Power for the mill is supplied by a General Motors twin Diesel of 300 horsepower. The motor is direct connected to a 60 KW generator which powers the drive motors in the mill.

W. S. Anderson
W. S. Anderson

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

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

July 21, 1954

MEMORANDUM

To: DMEA Field Team, Region II

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

Subject: Docket No. DMEA-2654 (Tungsten), McRae Tungsten Corporation, Routine inspection of Red Bluff Claims, Valley County, Idaho, Contract Idm-E406.

This property was visited on July 14 and 15, 1954. Mr. Bob McRae accompanied Webb Anderson, Bureau of Mines, and the writer.

The underground work was mapped; proposed work and royalty payments from Snowbird production were discussed.

The underground map submitted by the operator is essentially the same as mapped by the writer. The hubnerite distribution within the silicified zone was very difficult to see because the back and walls were very dirty and consequently a great deal of information was obscured. Some ore was observed in place, but hand specimens and ore piled on a dump indicated some tremendously rich portions within the ore zone. One specimen about 1 foot in diameter was estimated to contain 30 to 40 percent hubnerite. Other specimens observed were equally as good.

The hubnerite usually occurs as narrow high-grade lenses within the silicified zones. The richest lens was intersected at the crosscut and drift intersection. A small winze about 4 to 6 feet deep was sunk on this lens to test its downward extension. Good ore was reported at the bottom of the winze. Mr. McRae has drifted about 15 feet north of the crosscut to explore this lens. He also drove an 8-foot raise at the end of the drift. These workings are illustrated by the attached map.

Future exploration was discussed with Mr. McRae and he is of the opinion that the underground drifting has exposed the structure to his satisfaction and any future underground work should be about 3 raises off the drift to further test the hubnerite occurrence above the level.

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT

Date 8-3

Referred to:

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

Note comments in report regarding:

1. Note obscure work plans
2. Check on regulation
3.
4.

Dont detach C

and take appropriate action.

- - - - -

Action taken by Division:
None - but will watch for payments in accordance with ¶ 2 of attached letter dated July 21, 1954

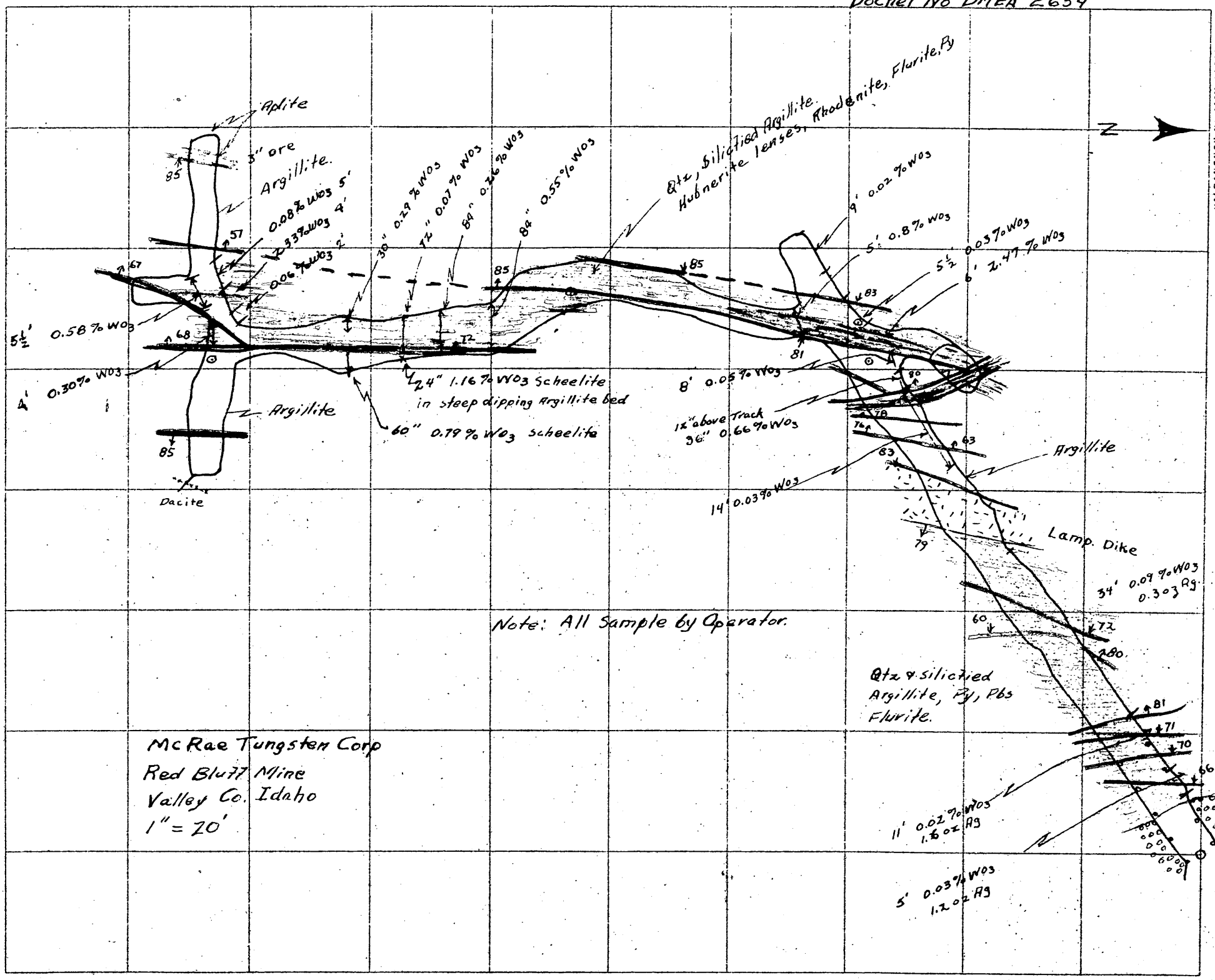
JOK.
Initials

Diamond drilling below the level was also discussed. Mr. McRae stated he would be unable to do any more exploration work on the property this summer and was of the opinion nothing could be done until the following year. His reasons are well founded because he must take advantage of the summer to mine and mill the ore from the Snowbird mine. Mr. McRae realizes the properties must be kept small in order to make a profit from the operations; thus, he hesitates to hire additional men and buy additional equipment for exploration. It was recommended that he write a letter to the Field Team stating his intentions about further exploration under Stage IV of the contract or terminate the contract by mutual agreement. Further exploration seems warranted on the property, but his inability to prosecute the work this year would drag the contract on for perhaps another year or more. ?

Mr. Anderson will discuss the present operation and include other pertinent data in regard to equipment and expected sale of concentrates in a separate memorandum.

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

Docket No DMEA 2654



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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.4
Approval expires 6-3[illegible]

RECEIVED
JUL 15 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1954 Docket No. DMEA 2654 Contract No. Idm- E406
Operator's Name McRae Tungsten Corp. Minerals Tungsten
Address Stibnite, Idaho
Contract Amount, $ 53,800.00 Government Participation: 75 % Amount, $ 40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						N/M
Drilling						
Bulldozing		$ 2200.77			2200.77	2200.77
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	428.40	5053.46	5481.86	379.76	5053.46	5433.22
Supervision	120.00	2110.00	2230.00	120.00	2110.00	2230.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		281.66	281.66		281.66	281.66
Explosives	193.15	639.57	832.72	193.15	639.57	832.72
Pipe		137.24	137.24		137.24	137.24
Track	12.36	793.86	806.22	12.36	793.86	806.22
Fuel Gas	49.52	578.65	628.17	49.52	578.65	628.17
Steel Bits	3.66	330.90	334.56	3.66	330.90	334.56
Misc.						
(4) Operating Equipment:						
Rental		233.13	233.13		233.13	233.13
Purchase		2360.00	2360.00		2360.00	2360.00
Depreciation		206.71	206.71		206.71	206.71
(5) Initial Rehabilitation and Repairs		349.32	349.32		349.32	349.32
(6) New Bldgs., Improvements, etc.		913.13	913.13		913.13	913.13
(7) Miscellaneous:						
Repairs to Equipment	26.93	233.22	260.15	26.93	233.22	260.15
Sampling and Analysis	20.00	212.50	232.50	20.00	212.50	232.50
Payroll Taxes	29.25	324.33	353.58	27.57	324.33	351.90
Liability Insurance	37.92	422.35	460.27	34.02	422.35	456.37
Snow Rem Mail	47.12	753.18	800.30	47.12	753.18	800.30
(8) Contingencies (specify):						
TOTALS	968.31	18,133.98	19,102.29	914.09	18133.98	19048.07

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

Date June 14 *Payee McRae Tungsten Co.

Per Robert J. McRae Title Pres.

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

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

(Instructions on reverse)

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

$ 685.57

Signature MJP
(Authorized Certifying Officer)

Date 7/9/54 Vou. No. 1211
(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. E406 in accordance with the terms of the contract.

Signature /S/ Stephen W Zoldok Title Mining Eng Date 6/17/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Eng Date 6/17/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1954 Docket No. DMEA 2654 Contract No. Idm-E406
Operator's Name McRae Tungsten Corp Minerals Tungsten
Address Stibnite Idaho

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	848.31	32	10,581.16	295	35.87		
Crosscutting				10,576.94				
Raising								
Shafts								
Winzes								
Drilling: Core				118.00				
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails				2,500.00				
D. Drill sites				200.00				
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				2360.00				
Initial Rehabilitation and Repairs				200.00				
New Buildings, Improvements, etc.				913.13				
Supervision		120.00		2230.00				
TOTAL COSTS		968.31		19,102.29	19048.07			

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

Date June 12, 1954 Operator McRae Tungsten Corp.

Per Robert J. McRae Title Pres

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

PROGRESS REPORT FOR APRIL 1954

Red Bluff

DMEA 2654
Contract IDM E406

During the first 15 days of April the west crosscut was extended from 13 feet to 33 feet for an advance of 20 feet. The south drift was extended 12 feet. Total advance 32 feet.

The west crosscut cut a vein at about 28 feet. The zone was two feet wide but only 3 inches of quartz carried any value. The face of the crosscut is silicified aplite. A hole was drilled 6 feet beyond the face but encountered no ore.

The south drift started in ore on the south side of the west corsscut. A fault trending S 35 W to S 20 W appears to have shifted the ore. The face of the south drift is mostly barren. The ore appears to be to the east.

The development work reveals that most of the values on the horizon developed are confined to zones from 6 inches to 24 inches wide ranging from 3 to 10% WO_3 in grade. The general vein material averages under 0.10% WO_3. On the surface the general vein material averages 0.30% WO_3 with high grade lenses bringing up the average. The development work has not revealed the continuity or size of individual ore lenses. Raising would be required to determine this. The property presents a problem in selective mining with a probable mill feed several times as high grade as originally estimated. There is no indication that the total units per foot of vein depth is less at the level prospected but they are confined to narrower zones within the general zone of 13 feet wide.

Progress Report (cont)

The weather was bad the first half of April and 37 inches of snow fell during the first 10 days. Only a limited amount of snow ploughing was required.

It is our plan to finish the south drift if supplies and labor permit during May.

There was one man besides the DMEA crew at the boarding house during the first 15 days of April.

I am enclosing a statement of supplies used up to May 1 on DMEA 2654. Steel and bit losses have been excessive because the steel we have been able to obtain has been threaded too long. This allows the bits AND STEEL to be ruined before full wear has been obtained.

DMEA ASSAYS

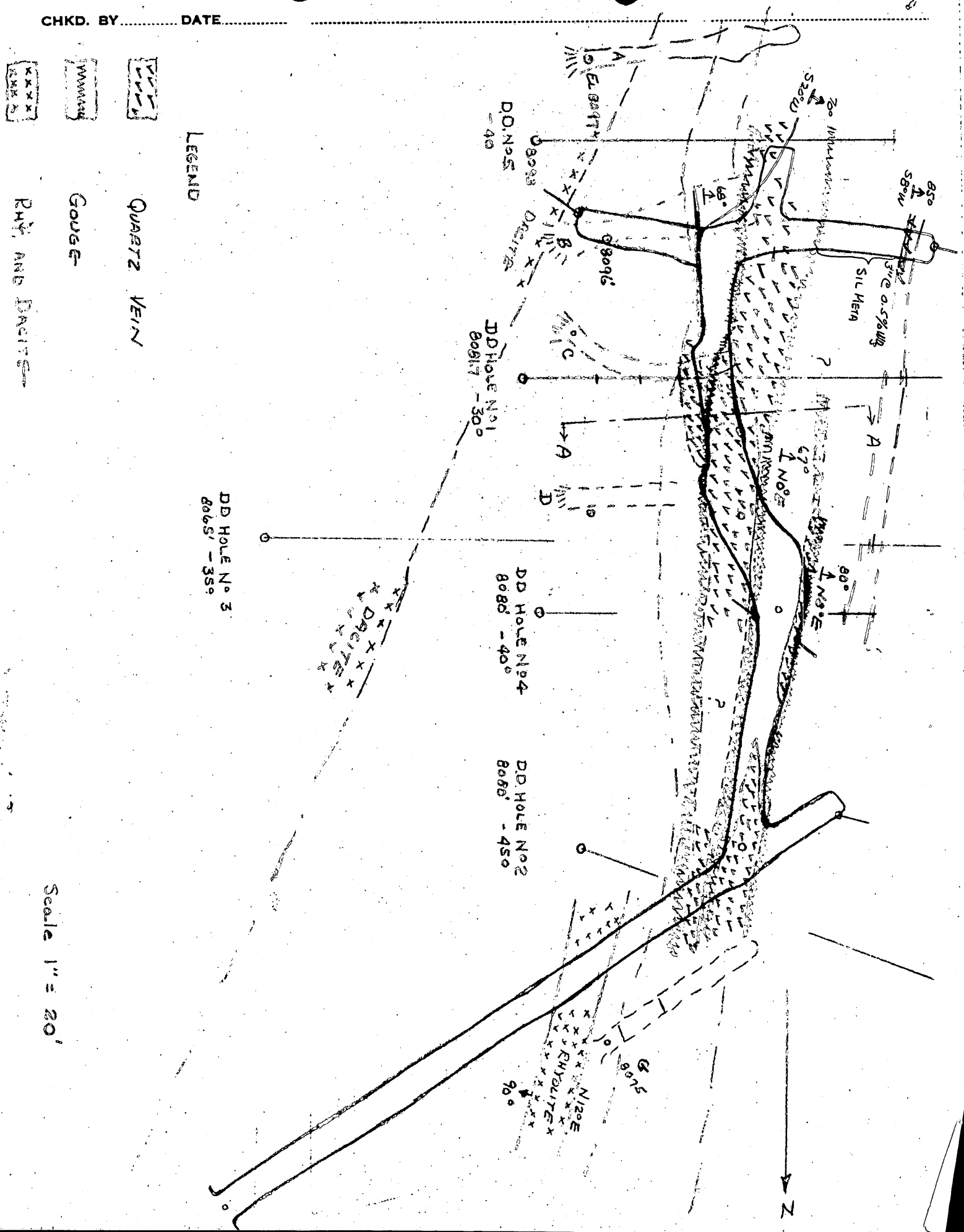
West	Crosscut	*0-24 inches		(North	Side)	%WO3 0.06
"	"	24-72 "		"	"	2.33
"	"	72-132 "		"	"	0.08
"	"	36-102 "		South	Side	0.58
South Drift at 110 ft. 48 inch section						0.30

* Measured from west side of drift

BRADLEY MINING CO. SUBJECT RED BLUFF SHEET NO. ..... OF .....

BY ..... DATE 5-16-[redacted] McRAE TUNGSTEN Co[redacted] JOB NO. .....

CHKD. BY ..... DATE .....



DMEA Field Team, Region II July 12, 1954

DMEA Certifying Officer, Region II

Contract Idm-2406, McRae Tungsten Corporation, April 1954 MP-104

The following deletions were made from the subject monthly operating report to bring the direct labor cost to $9.68 per foot of advance, as outlined in Field Team letter to the Operator of April 15, 1954.

Item 2, Labor	$48.64
Item 7, Payroll taxes	1.68
Item 7, Liability Insurance	3.90
Total deletions	$54.22

Myrtle Purdy

cc: Engr.
AD
USGS
Wash.

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

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

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

Month of March, 1954 Docket No. DMEA 2054 Contract No. [illegible] 2406
Operator's Name Home Tungsten Corp. Minerals Tungsten
Address Stibnite, Idaho
Contract Amount, $ 53,000.00 Government Participation: ____% Amount, $ 40,000.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WSM
Drilling						
Bulldozing		2200.77	2200.77		2200.77	2200.77
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	967.00	4550.52	5517.52	746.37	4307.09	5053.46
Supervision	100.00	1950.00	2110.00	160.00	1950.00	2110.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		303.00	303.00		281.66	281.66
Explosives		639.57	639.57		639.57	639.57
Pipe		137.24	137.24		137.24	137.24
Fuel Gas		793.86	793.86		793.86	793.86
Steel Bits	102.00	476.57	578.57	102.08	476.57	578.65
Misc.	3.00	352.00	352.00	—	330.90	330.90
(4) Operating Equipment:						
Rental		233.13	233.13		233.13	233.13
Purchase		2360.00	2360.00		2360.00	2360.00
Depreciation		306.71	306.71		306.71	306.71
(5) Initial Rehabilitation and Repairs		369.32	369.32		369.32	369.32
(6) New Bldgs., Improvements, etc.		913.13	913.13		913.13	913.13
(7) Miscellaneous:						
Repairs to Equipment	2.23	236.09	238.32	2.23	236.09	238.32
Sampling and Analysis	43.50	169.00	212.50	43.50	169.00	212.50
Payroll Taxes	52.99	300.07	353.06	42.04	282.29	324.33
Liability Insurance	75.56	357.54	433.10	65.41	356.94	422.35
Other Insurance	113.19	585.13	698.32	102.50	650.68	753.18
(8) Contingencies (specify):						
TOTALS	1418.01	17,115.11	18,034.92	1264.13	16869.85	18133.98

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

Date 4-27-54 *Payee Home Tungsten Corp.

Per Robert J. McRae Title Secy.

*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:

$ 948.10

Signature [illegible] (Authorized Certifying Officer)

Date 5/18/54 Vou. No. 1169

(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. E406 in accordance with the terms of the contract.

Signature /S/ Stephen W Zoldok Title Mining Eng Date 5/11/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Eng Date 5/11/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1954 Docket No. DMEA 2654 Contract No. IDM 2406
Operator's Name McRae Tungsten Corp. Minerals
Address Stibnite, Idaho

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	1358.81	61	10,184.79	264	38.57		
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core				118.00				
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails				2,500.00				
D.D. Sites				200.00				
TOTAL DISTRIBUTED COSTS		1358.81	61	13,002.79				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				2,360.00				
Initial Rehabilitation and Repairs				200.00				
New Buildings, Improvements, etc.				913.13				
Supervision		160.00		2,158.00				
TOTAL COSTS								

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

Date 4-27-54 Operator McRae Tungsten Corp.

Per Robert J. McRae Title President

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

(Instructions on reverse)

REMARKS:

(For Government use only)

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

PROGRESS REPORT FOR MARCH 1954

DMRA 2584 Red Bluff

During March the drift was extended from 78 feet to 106 feet for a total of 28 ft. At a point 104 feet in the drift a crosscut was turned to the west on a bearing of S 80 W and extended 13 feet during the month. A crosscut was also turned to the east and driven 20 feet during the month on a bearing of S 80 E. Total advance was 61 feet.

The west crosscut designated as West crosscut No. 2 started in the footwall of the vein and crossed 13 feet of material containing huebnerite. Three samples were cut in the crosscut 4 feet above the floor on the north side. They represent sections 0 to 24 inches, 24 to 72 inches, and 72 to 132 inches, in the crosscut. The section 24 to 72 inches appeared to be commercial. It contained a band of 6 inches that is estimated to average 6 to 12% WO_3. Another sample was cut on the south side of the crosscut from 36 to 102 inches. The high grade band did not appear on the south side at 4 feet above the floor but came up about 2 feet above the floor and was 9 inches wide estimated to average 16% WO_3. This sample was cut on the south side to show what the ore band would run without the high grade and to show the variability in grade as between sides of the crosscut.

The crosscut to the east was projected to explore the possibility of an ore zone to the east of the surface outcrop following along the main dacite dike as is indicated by the ore in hole No.2 from 15 to 24 feet and in hole No. 5 from 20 to 22 feet and from 30 to 33 feet. The crosscut was driven 20 feet and then a drill hole was projected from the face eastward for 6 feet. The drill hole cut the dike 3 feet east of the collar or 23 feet from the side of the drift. No ore was found but a strong structure was cut 17 feet east of the drift. It is possible that the ore in No. 1 drill hole and No. 5 drill hole represents an east split

PROGRESS REPORT (CONT)

off the main zone. The split starting at some point over the present drift level. This can only be told by raising.

It is planned to extend the west crosscut No. 2 to 35 feet or until it cuts the ore zone to the west of the main zone as indicated in drill hole No. 1 from 72 to 74.6 feet. In addition it is planned to drift southward on the main zone.

Samples of the crosscut to the west are in for assay.

The weather conditions in March were about the same as for the past 3 months. Snow depth reached 111 inches on March 28. During the latter part of March enough rails had been salvaged from the snow slide to cut down double slushing and the length of haul to a point where gasoline consumption will be cut and better progress possible. At one time we were slushing 140 feet and handling the muck twice. It was either do this or abandon the project permanently.

The cook house had one turn in addition to the DMEA crew who worked 6 days for DMEA and 21 days on other work.

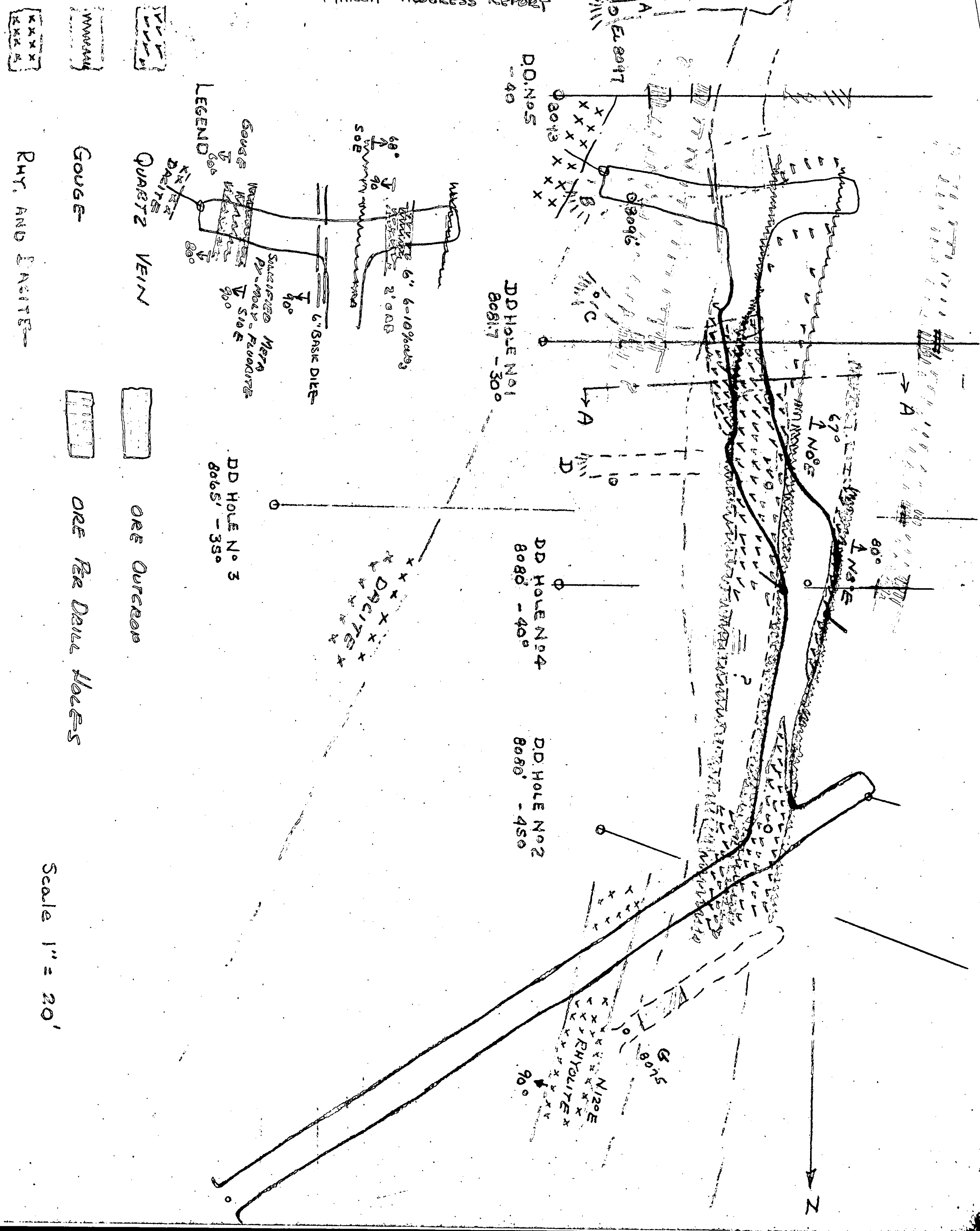
R.J. McLae
4-29-54

BRADLEY MINING CO. SUBJECT: RED BLUFF — SHEET NO. ____ OF ____

BY ________ DATE 3-[illegible]54 — McRAE TUNGSTEN [illegible]RP — JOB NO. ________

CHKD. BY ________ DATE ________

MARCH PROGRESS REPORT



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 February 195 4 Docket No. DMEA 2654 Contract No. IDE 2406
Operator's Name McRae Tungsten Corp. Minerals Tungsten
Address Stibnite, Idaho
Contract Amount, $ 53,800.00 Government Participation: 75% Amount, $ 40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WBM
Drilling						
Bulldozing		2200.77	2200.77		2200.77	2200.77
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	861.00	3689.52	4550.52	649.23	3657.86	4307.09
Supervision	140.00	1810.00	1950.00	140.00	1810.00	1950.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		383.66	383.66		281.66	281.66
Explosives		639.57	639.57		639.57	639.57
Pipe		137.24	137.24		137.24	137.24
Gas, Oil	29.50	764.36	793.86	29.50	764.36	793.86
Diesel	38.34	438.23	476.57	38.34	438.23	476.57
Misc.		330.90	330.90		330.90	330.90
(4) Operating Equipment:						
Rental		233.13	233.13		233.13	233.13
Purchase		2360.00	2360.00		2360.00	2360.00
Depreciation	29.12	177.59	206.71	29.12	177.59	206.71
(5) Initial Rehabilitation and Repairs		349.32	349.32		349.32	349.32
(6) New Bldgs., Improvements, etc.		913.13	913.13		913.13	913.13
(7) Miscellaneous:						
Repairs to Equipment	23.05	207.94	230.99	23.05	207.94	230.99
Sampling and Analysis		169.00	169.00		169.00	169.00
Payroll Taxes	50.78	258.29	309.07	43.86	238.43	282.29
Liability Insurance	73.55	313.69	387.24	52.24	304.70	356.94
Misc. Material and Mill	176.46	418.67	595.13	176.46	494.22	650.68
(8) Contingencies (specify):						
TOTALS	1430.10	15,685.01	17,115.11	1181.80	15687.05	16869.85

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

Date 5-23-54 *Payee McRae Tungsten Corp.

Per Robert J. McRae Title President

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

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

(Instructions on reverse)

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

$ 886.35

Signature (Authorized Certifyin

Date 4/28/54 Vou. No (See other sid

(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. E406 in accordance with the terms of the contract.

Signature /S/ Stephen W Zoldok Title Mining Engr Date 4/15/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 4/15/54

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).

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Feb. 1954 Docket No. DMEA 2654 Contract No. IDM E406

Operator's Name McRae Tungsten Corp. Minerals Tungsten

Address Stibnite, Idaho

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.	1290.10	48	8825.98	203	43.48	265	
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core				118.00				
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails				2500.00				
D. Drill Sites				200.00				
TOTAL DISTRIBUTED COSTS		1290.10	48	11643.98				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				2360.00				
Initial Rehabilitation and Repairs				200.00				
New Buildings, Improvements, etc.				913.13				
Supervision		140.00		1998.00				
TOTAL COSTS		1430.10		17,115.11				

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

Date 3-23-54 Operator McRae Tungsten Corp.

Per Robert J. McRae Title President

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

PROGRESS REPORT FOR FEBRUARY 1954

DMEA 2654 Contract IDM-E406

The weather during the month of February was somewhat milder than January. Snow depth at the end of the month was about 94 inches. Four trips were made to Big Creek for mail and supplies.

The drift was driven 48 feet southward during the month for a total length of 78 feet. As was described in the January report the drift was started S 10 W on the high grade lense near the west wall of the zone. The high grade raked into the floor of the drift at about 20 feet in. The drift was extended on this bearing for 53 feet. Small bunches of ore were encountered. At 42 feet a drill hole was projected east 6 feet and encountered ore about 2 feet east of the drift wall. At about 45 feet the drift wall was slabbed to the ore and the drift was turned into this ore band. This quartz zone was 6 to 7 feet wide that appears to be commercial. At 64 feet the ore had flattened which put the drift partly into the foot wall or east wall. At 68 feet a turn was contemplated to bring the drift back into the vein. At this point a lense was encountered on the east side of what was considered the footwall gouge. This appeared to be the top of a lense the end of which had been faulted or folded as illustrated in section AA. This lense was from 5 to 6 feet wide of fair ore containing appreciable scheelite. The top of the lense appeared to be rising southward so it was decided to continue the drift in this lense and go along the footwall of the main lense. 84 feet the top of the lense began receding. It was decided to continue the drift along the footwall even if in waste and then cross-cut west after completing 100 feet of drift. Using a slusher for mucking requires a reasonably straight drift.

Samples were taken across the main ore lense as well as across the lense found on the east. These are listed on following page.

PROGRESS REPORT FOR FEBRUARY 1954 (cont)

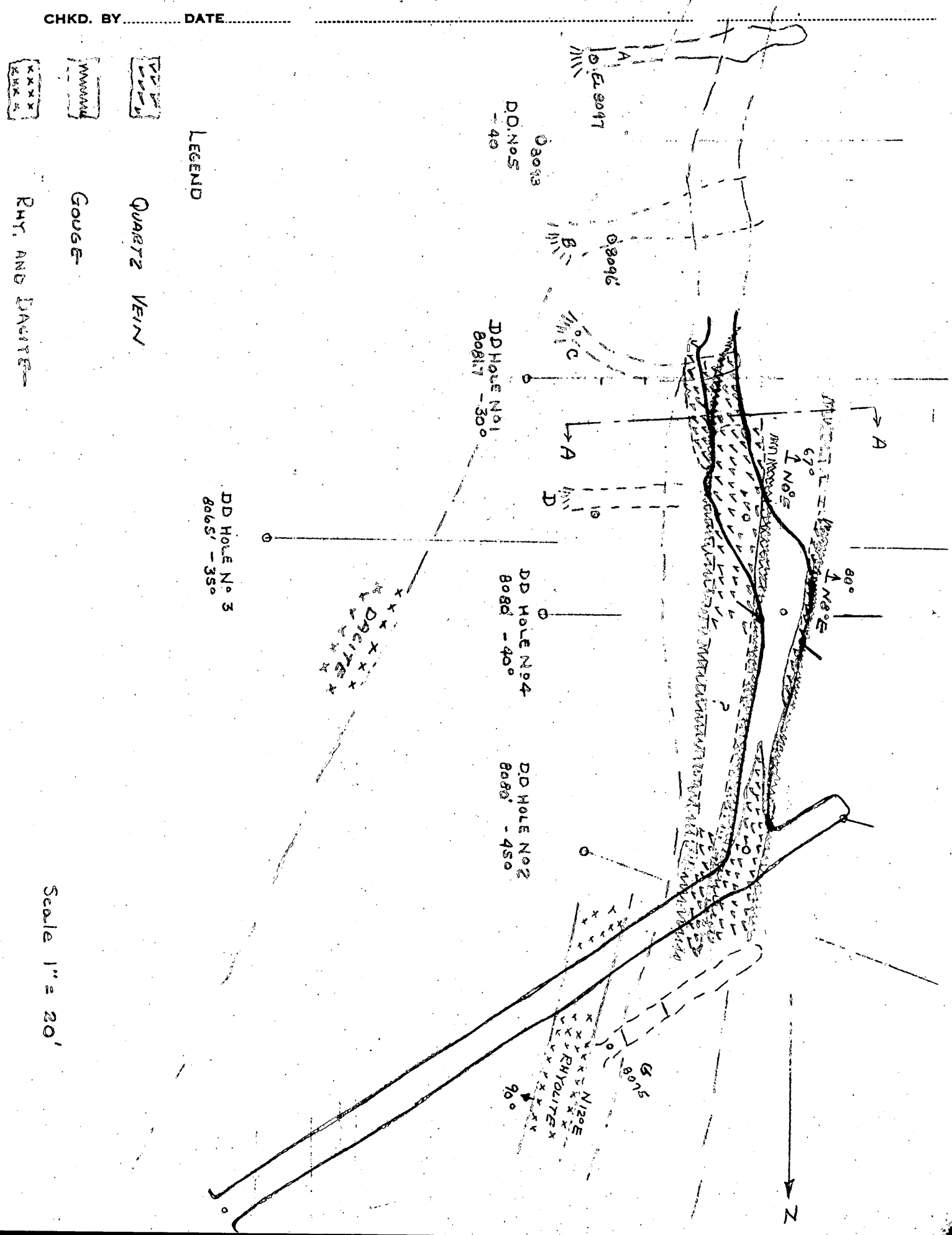
DMRA 2654 Contract IDM-E406

DESCRIPTION	LENGTH	WO_3
R.B. Drift No 1 at 58 feet	84"	0.55
R.B. " No 2 at 66 feet	84"	0.26
R.B. " No 3 at 72 feet	60"	0.07
Upper right corner of drift not a full section of main lense.		
R.B. Drift No 4 at 72 feet. Lower left corner of drift. Lense east of footwall.	24"	1.16
R.B. Drift No 5 at 81 feet across lense to east of footwall.	60"	0.79
R.B. Drift No 6 at 81 feet across upper right corner of drift. Partial section of main lense.	30"	0.29
R.B. No 13. In crosscut at 92 to 95½ feet 12" above track. North side Crosscut,	36"	0.66

BRADLEY MINING CO. SUBJECT RED BLUFF SHEET NO. ..... OF .....

BY ..... DATE 3-1[illegible]4 McRAE TUNGSTEN C[illegible]P JOB NO. .....

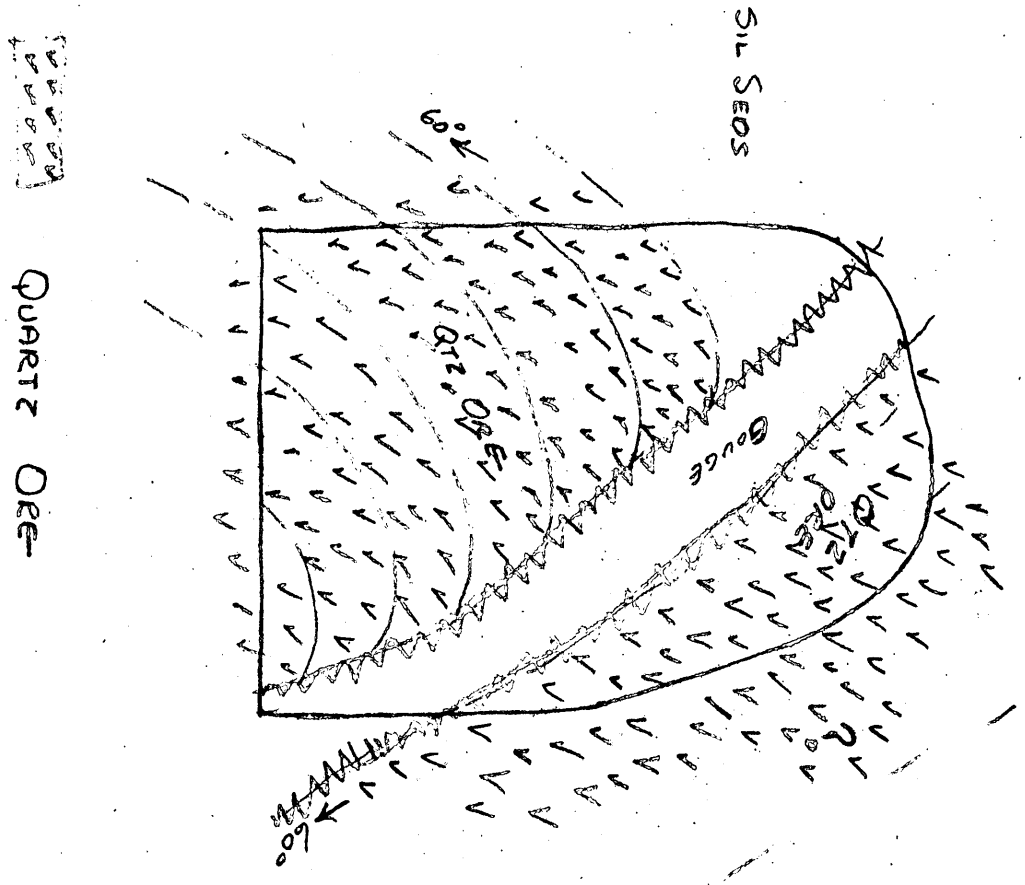
CHKD. BY ..... DATE .....



BRADLEY MINING CO. SUBJECT RED BLUFF DRIFT SHEET NO. ..... OF .....

BY ..... DATE 3-1[illegible]4 SECTION JOB NO. .....

CHKD. BY ..... DATE ..... McRAE TUNGSTEN CORP



SECTION AA

SCALE 1" = 2'

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 2654 Contract No. DMEA-2406
Operator's Name McRae Tungsten Corp Minerals Tungsten
Address Stibnite, Idaho
Contract Amount, $53,000.00 Government Participation: 75 % Amount, $40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WSM
Drilling						
Bulldozing		2200.77	2200.77			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor and cook	967.10	2722.42	3689.52	935.44	2722.42	3657.86
Supervision	180.00	1630.00	1810.00	180.00		
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	102.00	281.66	383.66	-0-	281.66	281.66
Explosives		639.57	639.57			
Pipe	10.27	126.97	137.24	10.27		
Track		764.36	764.36			
Steel Bits		438.23	438.23			
Misc.	3.69	225.21	228.90	105.69	225.21	330.90
(4) Operating Equipment:						
Rental		233.13	233.13			
Purchase		2300.00	2300.00			
Depreciation	69.53	108.06	177.59	69.53		
(5) Initial Rehabilitation and Repairs		349.32	349.32			
(6) New Bldgs., Improvements, etc.		913.13	913.13			
(7) Miscellaneous:						
Repairs to Equipment		207.94	207.94			
Sampling and Analysis	35.00	134.00	169.00	35.00		
Payroll Taxes	64.28	186.01	250.29	52.42	186.01	238.43
Liability Insurance	82.09	231.60	313.69	73.10	231.60	304.70
Show Removal and Mail	245.71	172.96	418.67	301.26	172.96	474.22
(8) Contingencies (specify):						
TOTALS	1759.67	13,925.34	15,685.01	1762.71	13,925.34	15,688.05

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

Date March 1, 1954 *Payee McRae Tungsten Corp

Per Robert J. McRae Title Pres.

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

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

(Instructions on reverse)

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

$1322.03

Signature [illegible]
(Authorized Certifying Officer)

Date 3/23/54 Vou. No. 1119
(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. E406 in accordance with the terms of the contract.

Signature /S/ Stephen W Zoldok Title Mining Eng Date 3/22/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Eng Date 3/22/54

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Jan 1954 Docket No. DMEA 2654 Contract No. TDM-5406
Operator's Name McRae Tungsten Co. Minerals Tungsten
Address Stibnite, Idaho

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.	1579.67	51	7535.88	155	48.62	265	
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core				118.00				
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails				2500.00				
D. Drill Sites				200.00				
Total Distributed Costs		1579.67	51	10,353.88				Total Costs Authorized by Contract
Operating Equipment Purchased				2,360.00				
Initial Rehabilitation and Repairs				200.00				
New Buildings, Improvements, etc.				913.13				
Supervision and P/R		180.00		1,958.00				
Tax (48.00)								
Total Costs				15,825.01				

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 March 1, 1954 Operator McRae Tungsten Corp

Per Robert J. McRae Title Pres

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

Remarks:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT FOR JANUARY 1954

Red Bluff Group DMEA 2654

The Red Bluff crosscut was extended from 104 feet to 125 feet during January. A drift was started on the vein on a course of S 10 W at a point 107 feet in the crosscut. The drift was driven 30 feet. The total advance was 51 feet.

The drift had good ore 4 feet wide for 10 feet along the strike. The bottom 2 feet of the drift had 12 inches of ore that was estimated from 5 to 10% WO_3. This continued for 25 feet in the drift and gradually raked down into the bottom of the drift. It appears that the drift level is just on top of a high grade lense of ore the top of which dips slightly south. From 12 feet to 30 feet the breast and back of the drift were very low grade. It is believed that there is an ore lense to the east of the drift perhaps for the entire 30 feet. No samples were taken as it would be difficult to get a representative sample.

Following are the assay returns on samples listed in Dec. Progress report:

Crosscut Samples	Section	% WO_3
* No. 11	10-15 feet	0.03
10	15-26	0.02
9	77-91	0.03
8	91-99	0.05
7	99-105	2.47
6	105-110½	0.03
5	116-125	0.02
12	Drift Face at 7 ft.	0.80

* Note this sample previously reported as 0.78% WO_3 but after recutting and assaying gave 0.03% WO_3.

NARRATIVE REPORT FOR JANUARY 1954 (cont).

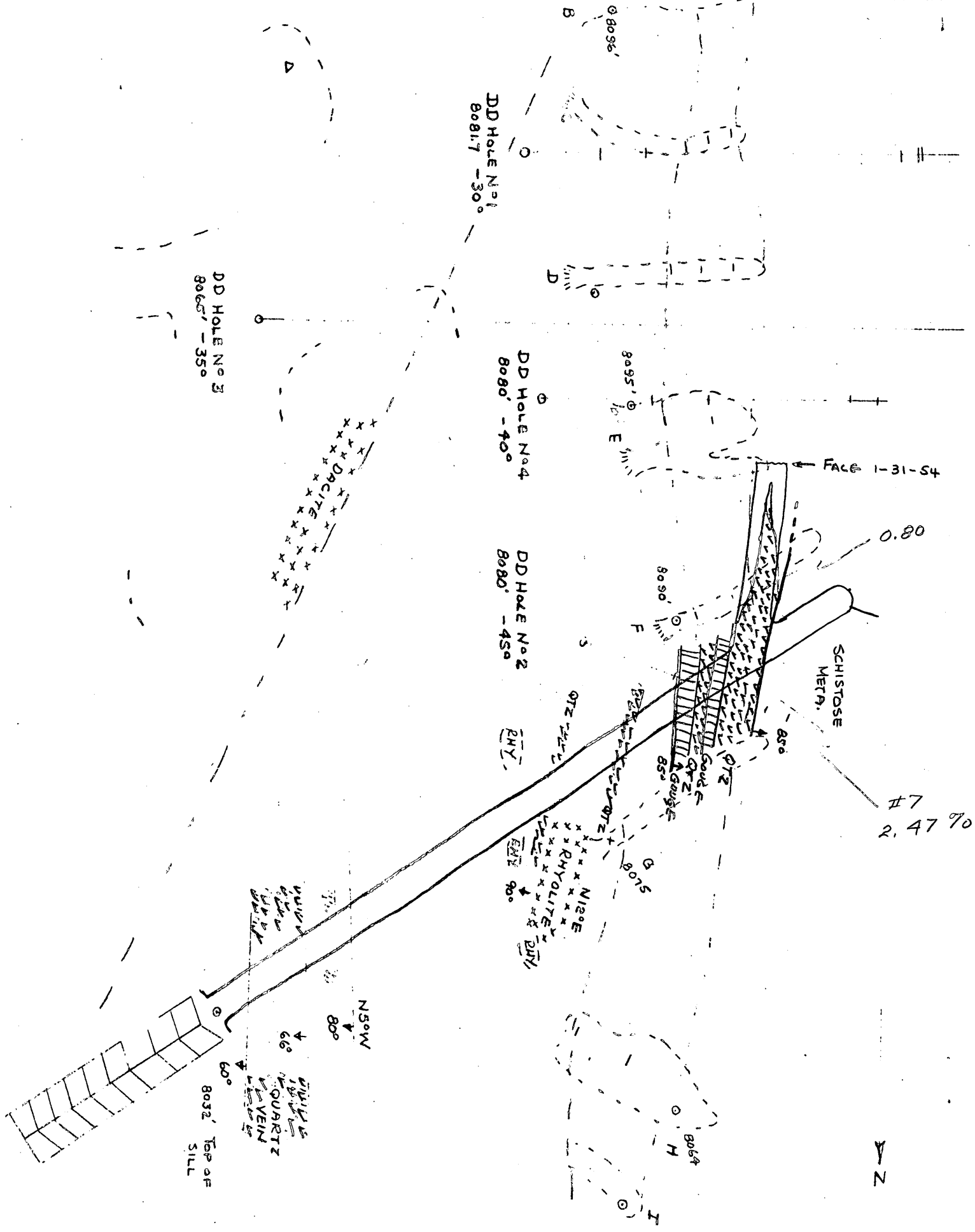
The project was visited on February 3,4,5,6,7, and 8. Snow was 8 feet deep at the project. January was a month of heavy storm with severe blizzard conditions. Over 100 inches of snow fell in January. It became impossible to deliver the men to work by caterpillar so they snowshoed to and from work. No attempts were made to plough the road during heavy storm and wind conditions. Between storms the road was opened for supplies. A snowslide took out the snowshed at the Snowbird Project. All of the rails for the Red Bluff project were stored in this snowshed. Considerable delay was experienced in trying to dig out and find enough rails to carry on the Red Bluff Project.

Three trips were made to Big Creek for mail and supplies.

From personal experience it is believed that January was one of the severest months ever experienced in that location.

RJM 3-1-54

[redacted]. SUBJECT RED BLUFF X CUT SHEET NO. OF
BY DATE McRAE TUNGSTEN CORP. JOB NO.
CHKD. BY DATE STIBNITE IDAHO



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 December 1953 Docket No. DMEA 2654 Contract No. Idm-R406
Operator's Name McRae Tungsten Corp. Minerals Tungsten
Address Stibnite, Idaho
Contract Amount, $ $53,800.00 Government Participation: 75% Amount, $ $40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						WSM
Bulldozing		2200.77	2200.77			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor and Cook	982.33	1812.41	2794.74	910.01	1812.41	2722.42
Supervision	300.00	1170.00	1470.00	300.00	1330.00	1630.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		281.66	281.66			
Explosives		639.57	639.57			
Pipe		126.97	126.97			
Track Gas - Oil		764.36	764.36			
Steel and Bits	143.47	290.20	433.67	148.03	290.20	438.23
Misc.	141.80	258.60	400.40	71.24	153.97	225.21
(4) Operating Equipment:						
Rental	93.25	220.53	313.78	46.63	186.50	233.13
Purchase		2360.00	2360.00			
Depreciation	63.23	35.83	99.06	72.23	35.83	108.06
(5) Initial Rehabilitation and Repairs		200.00	200.00		349.32	349.32
(6) New Bldgs., Improvements, etc.		913.33	913.33			
(7) Miscellaneous:						
Repairs to Equipment	55.26	133.27	188.53	55.27	152.70	207.97
Sampling and Analysis	16.00	118.00	134.00	16.00	118.00	134.00
Payroll Taxes	59.39	133.27	194.56	50.84	135.17	186.01
Liability Insurance	83.41	155.53	238.94	76.09	155.57	231.60
Snow Remov. & Mail	162.85	144.00	306.85	164.60	8.96	172.96
Repair to Compressor		146.32	146.32		-0-	-0-
(8) Contingencies (specify):						
TOTALS	2100.99	12,106.52	14,207.51	1910.81	12015.03	13925.34

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

Date Jan 18-54 *Payee McRae Tungsten Corp.

Per Robert J. McRae Title President

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

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

(Instructions on reverse)

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

$ 1432.73

Signature (Authorized Certifying Officer)

Date 1/25/54 Vou. No. (See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E406 in accordance with the terms of the contract.

Signature /s/ Stephen W Zoldok Title Mining Engr Date Jan 25-1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Stephen W Zoldok Title Mining Engr Date Jan 25-1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Dec. 1953 Docket No. DMEA 2654 Contract No. Idm-2406
Operator's Name McRae Tungsten Corp. Minerals Tungsten
Address Stibnite, Idaho

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		1800.99	62	6446.18	104	61.98	265	
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core				118.00				
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails				2500.00				
D. Drill Sites				200.00				
TOTAL DISTRIBUTED COSTS		1800.99		9264.18				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				2360.00				
Initial Rehabilitation and Repairs				200.00				
New Buildings, Improvements, etc.				913.33				
Supervision		300.00		1470.00				
TOTAL COSTS		2100.99		14207.51				

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.

Date Jan 18-54 Operator McRae Tungsten Corp.

Per Robert J. McRae Title President

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT FOR DECEMBER 1953

RED BLUFF GROUP IMRA 2654

The Red Bluff Crosscut was extended from 42 feet to 104 feet for an advance of 62 feet during December. The vein was cut at 99 to 105 feet. Heavy storms and snow slowed up the work and at times even the cat had difficulty delivering the men to work. Mechanical troubles on the compressors lost about two rounds. All of the ground stood well and no timber was required.

The project was visited the week of Dec. 14 to Dec. 21 and again Jan. 8 to Jan. 13. The following description covers the entire crosscut which was finished to 125 feet on Jan. 9th. The drift south on the vein was started on a bearing of S 10° W on Jan. 12. Samples were taken and are in for assay. The record of supplies consumed in November and December is enclosed.

GEOLOGY

All distances in the crosscut referred to here are on the north side of the crosscut.

From 42 feet to 67 feet the formation is silicified metamorphics with bands of quartz the whole containing pyrite. At 67 feet a rhyolite dike was encountered. It had a width of 8 feet, a strike of N 12° E and a 90 degree dip. The formation between 77 feet and 92 feet is a sheared metamorphic formation. From 92 to 99 feet the silicified metamorphics contain some hubnerite and at 92 to 92½ feet a band of quartz containing scheelite was cut. The strike of the mineralized quartz bands are N 10° E and approximate a 90 degree dip. From 96 to 96½ feet is a quartz band containing good values in hubnerite. From 99 feet to 105 feet is a quartz zone containing 30 inches of very good hubnerite ore. The balance of the section is fair ore. The entire section should assay several percent WO_3. From 105 to 110.5 feet the section is silicified and contains some crystals of hubnerite but is probably not ore.

GEOLOGY (cont)

At 110.5 a definite wall was cut that strikes N 10° E and dips 85 degrees E. There is 2 inches of gouge on the wall. From 110.5 to 125 feet is sheared metamorphic containing abundant pyrite but no tungsten minerals were observed. The face of the crosscut is at 125 feet. A 68 inch drill hole was drilled in the face and the drillings will be assayed later.

Between 99 and 105 feet the above description applies to the section along the crosscut at about 4 feet above the floor. The ore in the bottom of the crosscut was much better and this extended to a height of about 2 feet above the floor. About 24 inches could average approximately 10% WO_3 with some solid hubnerite crystals in excess of 5 lbs. None of this bottom material was cut into the samples. The sample sections were cut about 4½ feet above the floor.

SAMPLES

As mentioned in the previous report and as shown on the accompanying maps a quartz vein was cut at the section 5 to 15 feet on the north side of the crosscut. Results of the samples follow:

SECTION	OZ AU	OZ AG	% WO_3
5 to 10 ft.	0.01	1.2	0.02
10 to 15 "	0.01	1.6	0.78
26 to 60 "	0.01	0.3	0.09
61 to 67 "	0.01	0.3	0.03

No tungsten minerals were noticed in the 10-15 foot sample or in the 26-60 foot sample and the assays of 0.78 and 0.09 % WO_3 were surprising. I have requested Union Assay Office to rerun them, and I have resut the 10-15 foot section but the returns are not yet available.

The following additional samples have been cut and are in for assay. All samples are cut on the north wall of the crosscut with the exception of the 116 to 125 sample which was on the south wall.

NARRATIVE REPORT FOR DECEMBER 1953 (cont)

RED BLUFF GROUP DMEA 2654

[redacted] (cont)

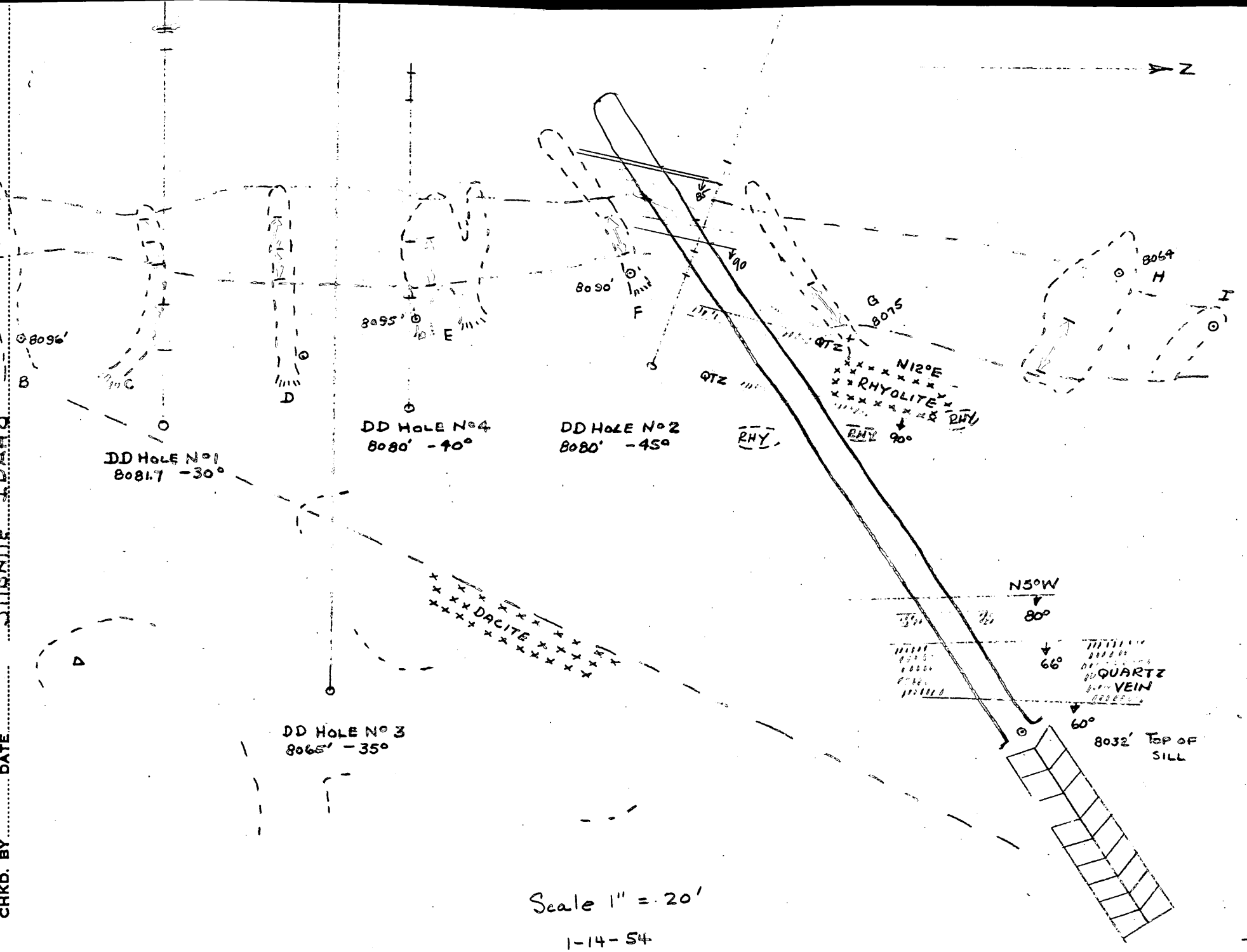
An additional sample No 12 is 60 inches across the face of the south drift when it was 7 feet from the center line of the cross-cut.

No.	SECTION	ESTIMATED GRADE WO_3
RB No 11	10-15 feet	?
RB No 10	15-26 "	?
RB No 9	77-91 "	?
RB No 8	91-99 "	0.25
RB No 7	99-105 "	2.0
RB No 6	105-110½ Feet	0.25
RB No 5	116-125	?
RB No 11	Drift Face 5 feet	1.5

Assays on these samples will be submitted with the January Progress Report.

SUBJECT RED BLUFF X CUT
McRAE TUNGSTEN
STIBNITE IDAHO

SHEET NO. ..... OF .....
JOB NO. .....
BY ..... DATE .....
CHKD. BY ..... DATE .....



Scale 1" = 20'

1-14-54

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

(3)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1066.4
Approval expires 6-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Nov., 1953 Docket No. DMEA 2654 Contract No. IDA E406
Operator's Name McRae Tungsten Co. Minerals Tungsten
Address Stibnite Idaho
Contract Amount, $ 53,800.00 Government Participation: 75 % Amount, $ 40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WSM
Drilling						
Bulldozing		2200.77	2200.77		2200.77	2200.77
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	1221.80	523.53	1745.33	1221.80	590.61	1812.41
Supervision	160.00	890.00	1050.00	160.00	1170.00	1330.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		370.03	370.03		281.66	281.66
Explosives		551.13	551.13		639.57	639.57
Pipe		126.97	126.97		126.97	126.97
~~Track~~ GASOLINE		689.87	689.87		764.36	764.36
OTHER	123.23	661.80	785.03	18.60	135.37	153.97
Steel & B.ts					290.20	290.20
(4) Operating Equipment:						
Rental	93.25	127.28	220.53	186.50		186.50
Purchase		2360.00	2360.00		2360.00	2360.00
Depreciation	35.83		35.83	35.83		35.83
(5) Initial Rehabilitation and Repairs		200.00	200.00	149.32	200.00	349.32
(6) New Bldgs., Improvements, etc.		913.33	913.33		913.13	913.13
(7) Miscellaneous:						
Repairs to Equipment	37.41	95.86	133.27	56.84	95.86	152.70
Sampling and Analysis		118.00	118.00		118.00	118.00
Payroll Taxes	58.04	59.98	118.02	58.04	77.13	135.17
Liability Insurance	93.91	47.33	141.24	93.89	61.62	155.51
REPAIR TO T. Cos COMPRESSOR	146.32		146.32	-0-		-0-
SNOW REMOVAL - MAIC	144.00		144.00	8.96		8.96
(8) Contingencies (specify):						
REPAIR TO ROAD		190.00	190.00		-0-	-0-
TOTALS	2113.79	10,125.88	12,239.67	1989.78	10,025.25	12,015.03

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

Date 12/26/53 *Payee McRae Tungsten Corp.

Per Robert J. McRae Title Pres.

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

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

(Instructions on reverse)

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

$ 1492 33

Signature [illegible]
(Authorized Certifying Officer)

Date 1/14/54 Vou. No. 1043
(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. E406 in accordance with the terms of the contract.

Signature /S/ John A. Bowsher Title Mining Engr. Date Jan 6-1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E. Howard Title Mining Engr. Date Jan 7-1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

(5)

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

DEPARTMENT OF THE INTERIOR
Minerals Administration
RECEIVED
JAN 18 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Nov. 1953 Docket No. DMEA 2654 Contract No. IDA E 406
Operator's Name McRae Tungsten Corp. Minerals Tungsten
Address Stibnite Idaho

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		1941.44	42	4625.66	42		265	
Raising								
Shafts								
Winzes								
Drilling: Core				118.00				
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails				2690.00				
D. Drill Sites				200.00				
TOTAL DISTRIBUTED COSTS		1941.44	42	7633.66				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				2360.00				
Initial Rehabilitation and Repairs				200.00				
New Buildings, Improvements, etc.				913.13				
Supervision + P/R Taxes		172.35		1132.68				
TOTAL COSTS		2113.79		12239.67				

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

Date 12/26/53 Operator McRae Tungsten Corp

Per Robert J. McRae Title Pres

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

NARRATIVE REPORT FOR NOVEMBER 1953

Red Bluff Group DMEA 2654

The Red Bluff crosscut was driven 42 feet during November. Five sets of timbers and lagging were required to get into solid ground. In addition 38 feet of snowshed was completed to allow for a fully covered slusher set up and dump as well as for a covered dump track later.

The crosscut started in the hanging wall of a sulfide quartz vein striking N 50 W and dipping 66 E. The vein is approximately 8 feet wide. One piece of rock from this vein assayed 0.10 oz Au and 12 oz Ag. The sample was taken to see if there was any value in the sulfides. In view of this assay two samples were cut across the vein and have been sent in for assay but the returns are not yet available. The sulfides are predominately pyrite, galena, sphalerite, and chalcopyrite. No tungsten minerals were observed. From the 15 foot mark where the footwall of the vein was cut to the face at 42 feet the formation is an aplite with bands and masses of quartz and the entire mass contains pyrite, fluorite, and minor galena.

The ground was very hard and abrasive, a carbide bit returning only 150 feet of hole. It broke large and blocky. The slusher arrangement for mucking is quite satisfactory but considerable trouble was experienced with the hoist freezing up during operation on the outside.

At the end of November there was 3½ feet of snow at the mine. Mail is delivered at Big Creek once a week weather permitting by a ski plane. Trips are made to Big Creek via Sno-cat about every 10 days for mail.

NARRATIVE (cont)

Records of the supplies consumed during November are at the mine and unfortunately during my last visit Dec. 14 to 20 I failed to bring them out. Records for both November and December will accompany the December Progress Report.

During December a regular 2 man crew will work underground with occasional help when needed from the construction crew.

Robert J. McRae
Robert J. McRae
Dec. 24, 1953

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

1201 N. Division St.
Spokane 2, Washington
November 19, 1953

MEMORANDUM

To: DMEA Field Team, Region II

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

Subject: Interim inspection, Docket No. DMEA 2654 (tungsten), McRae Tungsten Corp. (Red Bluff), Valley County, Idaho, Contract No. Idm-E406

An unreported previous visit to the project was made Sunday, October 4, 1953, in the company of Howard B. Nickelson, Geologist, U. S. Geological Survey. Robert J. McRae, president of the corporation, was met at the site.

The only work done at the project during the interim of September 3 to October 4 was the construction of a single story, one-room wooden structure, approximately 16'x16' in ground plan, erected near the proposed drift adit. This building will house the shop, compressor unit, and storage facilities. The camp personnel were active at the mill-camp site, about 1 mile from the adit site, on installation of mill equipment. Winter supplies were lying about, without cover. These supplies are expected to serve the mill operation, Snowbird mining, and contract project exploration (Idm-E406). An inventory was made by the Field Team representatives under guidance of Mr. McRae.

The Operator's voucher for June 1953 had been approved, with deletions, and payment was made September 29. This voucher covered work under Stages I and II and had been withheld pending resumption of project work or contract termination.

An unsuccessful attempt to contact Robert J. McRae, at his residence in Stibnite, was made Saturday, November 7, 1953. He had left early for the project site. The possibility of immediate adverse weather conditions prompted the writer to forego an attempt to reach the isolated project site in an ordinary stock car, particularly when I was not expected.

Unconfirmed verbal information by individuals recently at the mill-camp indicated that all activity was devoted to getting "housed and under cover" at the mill-camp site and no work had been done at the project except surface preparation prior to underground drifting and crosscutting under Stage III (time scheduled from February 25 to June 25, 1953).

The Operator's voucher for work in September and October has been received with a later letter dated November 10, 1953. The Operator requests payment for supplies laid down at the camp, erection of the building at the adit, and for 15 feet of underground drifting. Depending on our office audit of bills, etc., in comparison with the Field Team's inventory, payment may be made for all supplies vouchered, laid down at the mill-camp site and before actual use. The advance of 15 feet of drifting, reported by the Operator, but not verified by Field Team inspection, is allowable for payment. It is very likely that Stage III of the contract can and may be completed by Spring 1954, and not checked monthly by inspection because of the isolated location of the project site and inability to visit the operations during adverse weather conditions which from now on will be continuous until spring. Before final payment a complete check of all progress can be made at a later date. In the meantime, progress vouchers can be approved for payment as submitted by the Operator.

The Operator's letter of November 10, 1953 requested an amendment to the contract to cover the following items:

"1. Time on Stage III should be amended to cover the period from September 1, 1953 to September 1, 1954. This will allow time after July 1 (1954) for DMEA engineers to see the project before it has lapsed. (Note: present contract termination date is March 25, 1954.)

"2. Provision should be made for the rental on the slusher hoist and bucket. This is to take place of the purchase of a mucking machine under Stage III. This should be retroactive to cover October's rental already sent in on voucher (September and October period).

"3. Provide for depreciation on the McRae Tungsten compressor (120 cu. ft.) valued after rebuilding at $2150.00. This is to take the place of the purchase of a 120 cu. ft. used unit.

"4. Provide for up to $1250.00 for transportation of men from camp to job daily by caterpillar estimated to cost about $250.00 per month. This is a real problem and must be provided for.

"5. Total funds for wages under Stage III should not be reduced, and I would like to see the item of mail and snow removal remain at $1000.00.

"6. I think the footage of crosscut and drifting should be left open so it can be extended if development warrants. Our present thinking is to thoroughly prove the deposit on the 8032 level.

"7. I note that in the contract certain operating supplies are listed with dollar amounts. Will the fiscal agent consider that only those supplies and amounts listed will be reimbursable? If that should be thus interpreted then an amendment is in order to make operating supplies a dollar amount only. It was my understanding that listing the supplies and amounts was only to show how the cost of the project was calculated."

John A. Bowsher

John A. Bowsher

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

F[illegible]04 (Rev.)
[illegible]952)

UNITED STATES
D[illegible]ARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of OCTOBER, 1953 Docket No. DMEA 26 54 Contract No. IOM-E 406
Operator's Name McRAE TUNGSTEN CORP Minerals TUNGSTEN
Address STIBNITE IDAHO
Contract Amount, $ 53,800.00 Government Participation: 75% Amount, $40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting		2200 77	2200 77		2200.77	2200.77
Drifting						
(2) Labor and Supervision:						
Labor	61 28	462 25	523 53	128.36	462.25	590.61
Supervision	290 00	600 00	890 00	570.00	600.00	1170.00
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber				281.66		281.66
Explosives				639.57		639.57
Pipe				126.97		126.97
Track						
Materials as invoiced	2399 80		2399 80	764.36		764.36
Steel & Bits				290.20		290.20
14" Fe				135.37	113	135.37
(4) Operating Equipment:						
Rental	127 28		127 28	-0-		-0-
Purchase		2360 00	2360 00		2360.00	2360.00
Depreciation						
(5) Initial Rehabilitation and Repairs		200 00	200 00		200.00	200.00
(6) New Bldgs., Improvements, etc.	913 13		913 13	913.13		913.13
(7) Miscellaneous:						
Repairs to Equipment	95 86		95 86	95.86		95.86
Sampling and Analysis		118 00	118 00		118.00	118.00
Payroll Taxes	12 18	47 80	59 98	29.33	47.80	77.13
Liability Insurance	10 15	37 18	47 33	24.44	37.18	61.62
(8) Contingencies (specify):						
REPAIR DAMAGE TO RED BLUFF ROAD CAUSED BY RAINS	190 00		190 00	-0-		-0-
TOTALS	4099.68	6026 00	10,125.68	3999.25	6026.00	10,025.25

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

Date 11/10/53 *Payee McRAE TUNGSTEN CORP.

Per Robert J. McRae Title PRESIDENT

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

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

(Instructions on reverse)

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

$2999 44

Signature [illegible]
(Authorized Certifying Officer)

Date 12/14/53 Vou. No. 1006
(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-406 in accordance with the terms of the contract.

Signature /S/ John Bowsher Title Mining Engr Date 11/23/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E. Howard Title Mining Engr Date 11/25/53

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

-104A
(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 OCTOBER 1953 Docket No. DMEA 2654 Contract No. IDM E 406
Operator's Name McRAE TUNGSTEN CORP Minerals TUNGSTEN
Address STIBNITE IDAHO

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		2684.22	15	2684.22	15			
Raising								
Shafts								
Winzes								
Drilling: Core				118.00				
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails		190.00		2690.00				
D. DRILL SITES				200.00				
TOTAL DISTRIBUTED COSTS		2874.22	15	5692.22				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				2360.00				
Initial Rehabilitation and Repairs				200.00				
New Buildings, Improvements, etc.		913.13		913.13				
SUPERVISION		312.33		960.33				
TOTAL COSTS		4099.68		10,125.68				

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

Date 11/10/53 Operator McRAE TUNGSTEN CORP.

Per Robert J. McRae Title PRESIDENT

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

Cost Distribution Sh[illegible] - DMEA

Operating Materials and Supplies

Red Bluff (IDM E 406) Invoices for Aug., Sept. and Oct., 1953.

The following invoices are charged under

OPERATING MATERIAL and SUPPLIES

Timber

1000 lineal ft. round lagging
300 " " stull timber

Labor M.C. Begole 41 hrs. @ $1.876 Sept. 26 to 31 inc.(see time sheet)	=	$76.67
Hauling McRae Tungsten's DR-60 4 ton truck 9 hours 9/29/53 8 hours 9/30/53 17 hours @ 5.00 hr.	=	85.00
		$161.67

Powder

Invoice No. 07662 9/25/53

Brownz Tie and Lbr. Co. McCall Idaho to Tungsten Co.

2500 lbs 45% Gelex dynamite @ 20¢	=	500.00
Freight on above powder Payette Lakes Lbr. Co's invoice No. 07133 9/24/53	=	25.00
		$525.00

Invoice No. 07133 9/24/53

Payette Lakes Lbr. Co. McCall, Ida. to Tungsten Co.

300 lbs Blacksmith Coal	-	10.48
1000 Wedges	-	60.00
1000 Caps		26.13
6000 Ft. Fuse	-	88.44
		$185.03

Cost Distribution Sheets
Attached

Red Bluff IDM E 406
DMRA 2654

Progress Report for Sept. and Oct. 1953

Work was carried on during Sept. and Oct. to prepare the Red Bluff for underground work during the early winter months. All operating supplies had to be on hand before the roads close early in November.

Early in October most supplies had been purchased and moved to the site. Timber had been cut and delivered. During Sept. a compressor and shop building had been built by Martin Construction Co. Carpenters.

The heavy runoff of last spring had caused large slides and washing on the Red Bluff road. These had to be cleared before work could be started. Again in late October a heavy rain caused more slides and sluffing and the road had to be cleared again before being passable.

On October 27, one man started steady work on the cross cut. On Oct. 31 about 15 ft. had been run but had yet to be timbered and 30 feet of snow shed needed to be built. The snow averaged about 15 inches deep.

It was found during the few days of drilling that the McRae Tungsten 120 Cu Ft compressor was not sufficient for slushing and drilling so the DMRA K185 compressor which had just been overhauled was brought up and both compressors were necessary at this elevation to do a satisfactory job. A small addition to the shop was necessary to house both machines.

A regular two man crew started on the crosscut on Nov. 1. Maps of the crosscut will be submitted with the November progress report.

Robert J. McRae

Invoice No. 06387 9/24/53

Payette Lakes Lbr. Co. McCall, Ida. to Tungsten Co.

1016 bd ft 2 x 12 @ $82.00 M	=	83.35
1017 " " 2 x 10 @ " "	=	83.35
		$166.70
Less 5%		8.34
		158.36
Freight McCall to Fawn Meadows		50.00
		$208.36

Invoice No. 04546 7/31/53

Payette Lakes Lbr. Co. McCall, Ida. to Tungsten Co.

100 lbs 60 D Nails	-	14.00
Less 5%		0.70
		$13.30

Invoice No. B 00169 9/26/53

Brown's Tie and Lumber Co. McCall, Idaho to Tungsten Co.

12 Gal Zerex antifreeze @ $3.00 $36.00

Invoice No. 3872 9/[illegible]/53

Phillips Petroleum Co. Cascade, Ida. to Tungsten Co.

2035 Gal gasoline @ 27.9¢ $567.77

Invoice No. 40411 9/23/53

Morris and Crutcher Cascade, Ida. to Tungsten Co.
Freight Cascade to Stibnite 2035 Gal gas
@ 3¢ $61.05

Invoice No. 1 9/20/53

Tungsten Co. Stibnite, Ida.
Freight on 2035 Gal Gas @ 3¢
Stibnite to Red Bluff Mine $61.05

Invoice No. 8867 9/15/53

Phillips Petroleum Co. Cascade, Ida. to Tungsten Co.

54 Gal Motor Oil @ 84¢	-	45.36
38 lbs Grease @	-	8.10
		$53.46

Invoice No 14289 10/30/53

Stibnite Service Sta. Stibnite, Ida to Tungsten Co.

4 quarts Riscil @ $1.05 $4.20

Invoice No 10-834 10/23/53

Western Bearings Boise, Ida to Tungsten Co.

12 only 1 5/8 " Carbide bits @ 15.00 each $180.00

Invoice No 9-1298 9/23/53

Intermountain Equip.Co, Boise, Ida, to Tungsten Co.

10 pieces 1 inch x 2 ft shanked @ 4.63	-	$46.30
10 " 1 inch x 4 " " @ 6.39	-	63.90
		$110.20

Invoice No 10-433 10/9/53

Intermountain equipment Co. Boise, Ida. to Tungsten Co.

2 Eyebolts and expanders	$5.29	
Postage	.45	
	$5.74	$5.74

Invoice No 55733 9/23/53

Salt Lake Hdw. Co. Boise, Ida. to Tungsten Co.

200 lbs ½ inch lamp carbide - $17.50

Invoice Nos 85658 10/24/53
83218 9/15/53

Norco, Boise, Ida. to Tungsten Co.

1	cylinder oxygen	$5.50
1	" acetylene	13.05
		$18.55

Invoice No 40615 10/1/53

Morris and Crutcher Cascade, Ida. to Tungsten Co.

55 Gal White Gasoline $16.83

Invoice No 9-354 9/9/53

Intermountain Equip C. Boise, Ida. to Tungsten Co.

300 feet cable 5/16 inch $47.10

Invoice 2856 9/4/53

Horlan's Boise, Idaho to Tungsten Co.

210 ft. black 1 inch pipe @ 18.65	-	39.17
210 " " 1½ " " @ 29.17	-	61.26
		$100.43

Freight on above pipe from Boise to Fawn Meadows charged on Payette Lakes Lbr Co Invoice No 06310 9/5/53 $10.83

Invoice 3336 10/1/53

Horlan's Boise, Ida. to Tungsten Co.

2	¾ inch valves	4.59	
1	1 inch stopwaste	3.37	
4	1½ " 90 Degree ells	3.41	
2	1½ " 45 " "	1.84	
2	1½ " Ts	2.50	
		15.71	$15.71

Cost Distribution Sheet
New Buildings

RMA Copy

Red Bluff DMEA 2654 Invoices for Aug., Sept. and Oct., 1953

The following invoices were charged under New Buildings on MF-104. They comprise the labor and material used for the construction of a compressor and shop building as authorized under Stage III of Contract IDM-E 406 9/25/53.

MATERIALS

Invoice No. A 2974 9/14/53

Boise Payette Lumber Co., Cascade Idaho to Tungsten Co.

10 rolls 65 lb Roofing @ 4.20	=	$42.00

Invoice No. A 1384 9/9/53

Boise Payette Lbr. Co., Cascade, Ida. to Tungsten Co.

100 lbs 8D nails @ $16.00	=	16.00
100 lbs 30D " " 15.50	=	15.50
2 Barn Sash windows @ 4.20	=	8.40
		$39.90

Invoice No. 05613 9/6/53

Payette Lakes Lbr. Co., McCall, Idaho to Tungsten Co.

160 bd ft 1 x 4 rough @ $75.00 M	=	12.00
320 " " 1 x 6 " " " "	=	24.00
		$36.00

Invoice No. 06386 9/6/53

Payette Lakes Lbr. Co. McCall, Idaho to Tungsten Co.

160 bd ft 2 x 6 @ $82.00 M	=	13.12
2004 " " 1 x 12@ 97.00 M	=	194.39
		207.51
Less 5%		10.33
		197.18
# Freight McCall to Fawn Meadows		50.00
# Trucking arranged and invoiced by Payette L.L. Co.		$247.18

MATERIALS

Invoice No 04546 7/31/53

Payette Lakes Lbr. Co., McCall, Idaho to Tungsten Co.

450 bd ft 2 x 4 @ $91.00 M	=	$40.95
Less 5%		2.05
		$38.90

LABOR ON SHOP AND COMPRESSOR HOUSE

Martin Const. Co. Boise, Idaho (See attached invoice)

120 hrs. @ $3.99	$478.80

M.C. Begole (See Sept. time sheet)

6 hrs. @ $1.876	11.25

M.C. Begole (See Oct. time sheet)

10 hrs. @ $ 1. 915	19.15
	$509.20

Material	=	$403.93
Labor	=	509.20
	Total	$913.13

COST DISTRIBUTION SHEET — DMEA

OPERATING EQUIPMENT

RENTAL

Red Bluff (IDM E 406) Invoices for Aug. Sept. Oct. 1953

The following invoice is charged under Operating Equipment (rental) (10/14/53 to 11/14/53)

Invoice 10-1545 10/29/53

Intermountain Equip. Co. Boise, Ida. to McRae Tung. Co.

Ingersol Rand Slusher Hoist ASNN-OH #686197	$1080.00
Esco Slusher Bucket	192.89
	$1272.89

Rental @ 10% $127.28

(See attached rental Contract and Invoice)

COST DISTRIBUTION — DMEA
REPAIR TO EQUIPMENT

Red Bluff (IDM- E 406) Invoices for Aug. Sept. and Oct. 1953

The following invoices are charged under Repair to Equipment and are authorized under Stage III of subject contract. The parts are for DMEA Jack leg and J 40 Jack hammer. The labor is on repair of DMEA Compressor.

Invoice No 9404 9/9/53

Intermountain Equip. Co. Boise, Idaho to McRae Tungsten Co.

6 only feed leathers for jack leg @ 95¢	5.70
Postage	.18
	$5.88

Invoice No 10-1422 10/27/53

Intermountain Equip. Co. Boise, Idaho to McRae Tung. Co.

Jackhammer parts as listed (See accompanying invoice)	$14.38

LABOR (see Oct. time sheet)

Earl McHargue (mechanic) 36 hrs @ 2.10 Labor on K 105 DMEA Compressor	$75.60

Total charged to Equipment Repairs $95.86

COST DISTRIBUTION SHEET DMEA

CONTINGENCIES

Red Bluff (IDM E406) Invoices for Aug. Sept. Oct., 1953

The following invoice is charged under Contingencies on MF 104. The spring runoff caused the Red Bluff road to slide and wash badly. In October a heavy rain caused similar damage. This damage was repaired by the Tungsten Co. TD-14 Bulldozer.

Invoice No. 2 10/31/53

Tungsten Co. Stibnite, Ida. to DMEA Red Bluff

Sept 7	-	4 hours	
Sept 14	-	3 "	
Oct. 27	-	8 hours	
Oct. 28	-	4 hours	
		19 hours @ $10.00 hr.	= $190.00

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

1201 N. Division St.
Spokane 2, Washington
September 22, 1953

MEMORANDUM

To: DMEA Field Team, Region II

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

Subject: Interim report, DMEA Docket No. 2654 (tungsten), McRae Tungsten Corp. (Red Bluff), Valley County, Idaho, Contract No. Idm-E406

This interim inspection was made Thursday, September 3, 1953, in the company of Robert J. McRae, president of the corporation. The previous inspection had been made by S. W. Zoldak, Mining Engineer, Bureau of Mines, Sunday, May 31, 1953.

To date the work to be done under Stages I and II has been completed, i.e., road building and diamond drilling. Stage II provided for 4 holes whose aggregate length was to approximate 780 feet. One hole, 140 feet total depth, has been drilled and it is unlikely that the other three will be drilled. All of the drilling to date was done prior to the execution of the contract and the cost and payment disallowed, so the drilling was not vouchered by the Operator. Two vouchers have been submitted, the first for October 1952 which was paid after deletions, and the second for June 1953 for which payment is being withheld pending possible termination of the contract or resumption of work. The Operator now plans to begin Stage III immediately under the terms of the present contract, on an incurred cost basis. Work pertaining to the project has been recessed since April 1953. Under the time schedule for the contract, Stage III should have been in progress during the period February 25 to June 25, 1953.

The total unexpended funds are $50,452.00 and the termination date is March 25, 1954.

John A Bowsher

John A. Bowsher

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1953 Docket No. DMEA 2654 Contract No. Idm-F406
Operator's Name McRae Tungsten Co. Minerals Tungsten
Address Stibnite, Idaho
Contract Amount, $ 53,800.00 Government Participation: 75% Amount, $ 40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						WSM
Drilling						
Bulldozing					2200.77	2200.77
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor		462.25	462.25	-0-	462.25	462.25
Supervision		300.00	300.00	-0-	600.00	600.00
Technical Services	300.00	300.00	600.00	-0-	-0-	-0-
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental		2212.50	2212.50	-0-	-0-	-0-
Purchase				-0-	2360.00	2360.00
Depreciation				-0-		
(5) Initial Rehabilitation and Repairs					200.00	200.00
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	118.00		118.00	118.00	-0-	118.00
Payroll Taxes	13.50	47.80	61.30	-0-	47.80	47.80
Liability Insurance	10.50	37.18	47.68	-0-	37.18	37.18
(8) Contingencies (specify):						
TOTALS	442.00		3801.73	118.00	5908.00	6026.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date July 15 *Payee McRae Tungsten Corp
Per R J McRae Title Pres

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$ 88.50
Signature (Authorized Certifying Officer)
Date 9/30/53 Vou. No. 927
(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. 406 in accordance with the terms of the contract.

Signature S/ Verda Johnson Title M. Eng. Date 8/4/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S/ L. E. Howard Title M. Eng. Date 8/4/53

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 June 195 3 Docket No. DMEA 2654 Contract No. Idm-E406

Operator's Name McRae Tungsten Corp. Minerals Tungsten

Address Stibnite, Idaho

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails	mile			2474.75	one			2500.00
D. Drill Sites	site			200.00	6	33.33		33.33
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
P/R Taxes and Comp. ~~Operating Equipment Purchased~~		24.00		108.98				
Initial Rehabilitation and Repairs								
Assaying ~~New Buildings, Improvements, etc.~~		118.00		118.00				
Engineer Supervisor		300.00		900.00				
TOTAL COSTS		442.00		3801.73				

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

Date July 17 Operator McRae Tungsten Corp.

Per P J McRae Title President

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

PROGRESS REPORT FOR JUNE 1953

DMEA 2654

During the winter no work has been done on this project as such. The drill cores were logged and split and samples prepared. The sludge samples were panned and sections cut out for assay. In addition notes were worked up into plan and section maps.

Five copies of the logs and assays on the 5 holes drilled were sent to Mr. Tom Howard last week.

A revision of this contract is now being worked out with DMEA.

July 17, 1953

Mr. Glen C. Reed
1201 N. Division St.
Spokane, Washington

Dear Mr. Reed:

I am enclosing the progress report for October on DMEA 2654 or the Red Bluff Project. Included are:

5 copies of MF-104 and 104A
1 copy of payroll data
1 copy of assay invoice
5 copies of narrative

Previously 5 sets of drill logs and plan and section maps were sent to Mr. Tom Howard.

In accordance with the memorandum from R.J. Hindman dated January 12, 1953, I am enclosing a breakdown of the supervisor engineer's time as reported in the progress report for October 1952. The October report was not made up until Nov. 20 and as you can see the time submitted in October actually consisted of 5 days in September, 14½ days in October, and 6 days in November for a total of 25½ work days which I considered as a work month.

In the report for June I have considered the total time of 14 days during Dec., March, and April as a half month.

Yours truly,

RJM

Robert J. McRae
Stibnite, Idaho

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

1201 North Division St.
Spokane 2, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 1 6 1952

November 3, 1952

MEMORANDUM

To: DMEA Field Team, Region II

From: J. R. Reynolds and J. W. Vernon, Mining Engineers, Bureau of Mines

Subject: Progress examination of Red Bluff Property, McRae Tungsten, Valley County, Idaho, Contract Idm-E406, Docket No. DMEA 2654 (tungsten)

The subject examination was made on October 29, 1952. The part of the contract examined consisted of:

Stage I
1. Construct approximately one mile of access road to the location of the proposed exploration on the Red Bluff No. 1 claim.

The above described road has been completed and is passable, though extremely rough. The total length of this road is 5 miles. The last 1/4 mile is steep and the surface loose, making it passable with difficulty except with vehicles with exceptional traction.

No culverts were built when the road was constructed. A small amount of blasting was done, mostly bulldozing of large boulders.

J. W. Vernon

Orig. & 3 - Wash.
USGS (2)
DMEA
M/D
JWV/vf

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

Wash

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 4-30-53.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of OCTOBER, 1952 Docket No. DMEA 2654 Contract No. E 406
Operator's Name McRAE TUNGSTEN CORP Minerals TUNGSTEN
Address STIONITE IDAHO
Contract Amount, $ 53,800.00 Government Participation: 75% Amount, $ 40,350.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form } Contracts:						
Drilling						
Bulldozing						72200.77
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	462.25		462.25			462.25
Supervision	300.00		300.00			600.00
Technical Services	300.00		300.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	2212.50		2212.50			
Purchase						2360.00
Depreciation						
(5) Initial Rehabilitation and Repairs						200.00
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	47.80		47.80			47.80
Liability Insurance	37.18		37.18			37.18
(8) Contingencies (specify):						
TOTALS	3359.73		3359.73			5908.00

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

Date 11-17-52 *Payee McRAE TUNGSTEN CORP.

Per Robert J. McRae Title PRESIDENT

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

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

(Instructions on reverse)

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

$

Signature
(Authorized Certifying Officer)

Date Vou. No.
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of OCTOBER 1952 Docket No. DMEA 2654 Contract No. E 406
Operator's Name McRAE TUNGSTEN CORP. Minerals TUNGSTEN
Address STIBNITE IDAHO

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails	MILE	2474.75		2474.75	ONE	ONE	ONE	2500.00
D. DRILL SITES	SITE	200.00	6	200.00	6	33.33	6	33.33
TOTAL DISTRIBUTED COSTS		2674.75		2674.75				TOTAL COSTS AUTHORIZED BY CONTRACT
COMP AND P/R TAXES		84.98		84.98				90.00
~~Operating Equipment Purchased~~								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
ENG. AND SUPERVISION		600.00		600.00				600.00
TOTAL COSTS		3359.73		3359.73				

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

Date 11-17-52 Operator McRAE TUNGSTEN CORP

Per Robert J. McRae Title PRESIDENT

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

PROGRESS REPORT FOR OCTOBER, 1952

DMEA 2654

During the month the road to the Red Bluff was completed. This road worked out quite well or better than expected. More solid rock was encountered than was estimated. The road costs were considerably above the $2500.00 allowed. Only the bulldozer and labor were listed against the road as these two items consumed the authorization. The Compressor rental, powder, gasoline, etc. were not listed against the project.

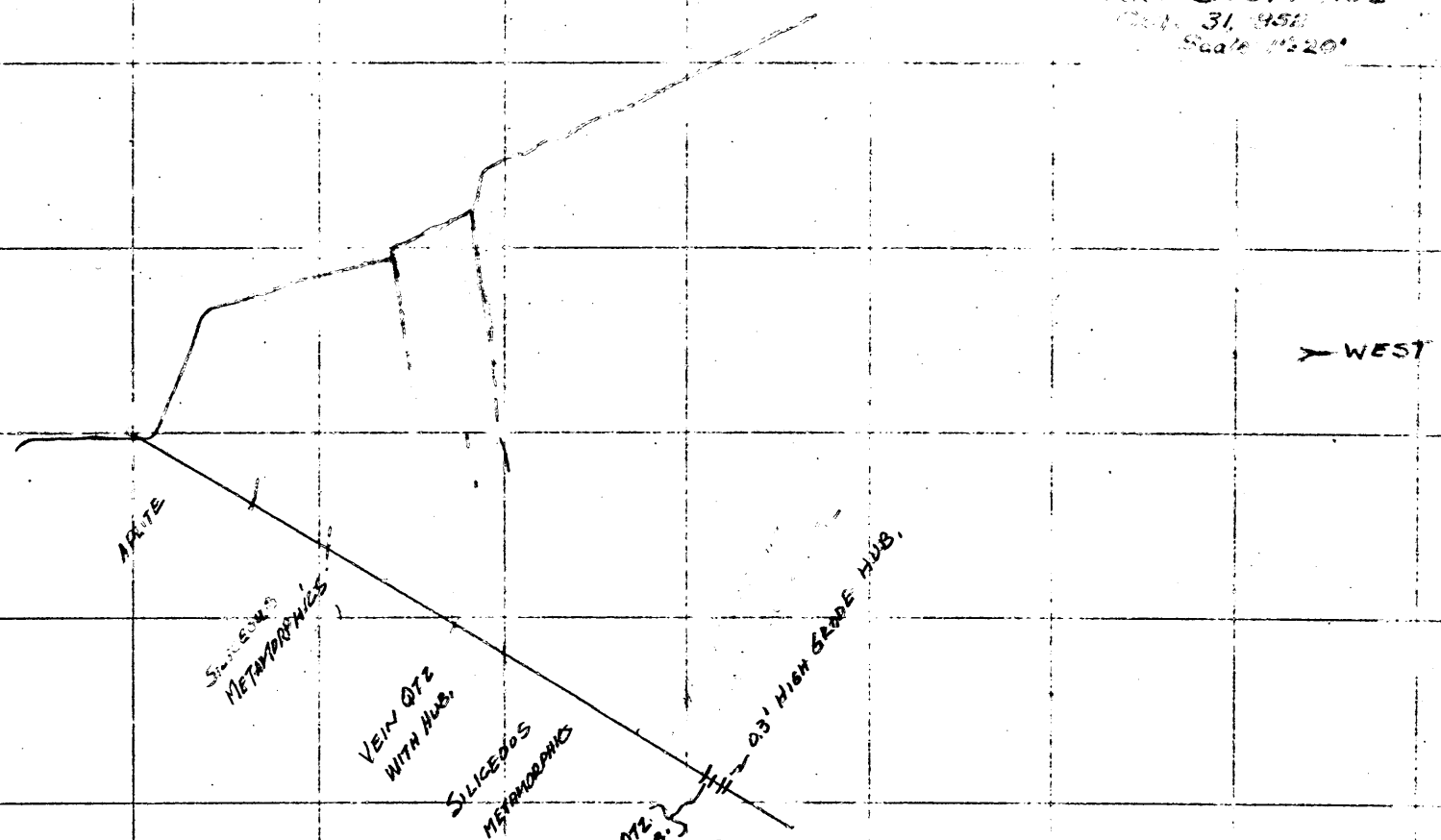
All foreseeable diamond drill sites were excavated and connected to the road. During the month all of the drill holes yet to be drilled were tied in to the outcrop and sections and logs provided on the #1 and #2 holes. The map of drill sites and sections and logs with some assays of the #3, #4, and #5 holes will be submitted when the data and assays have been completed. To date all of the drilling under Stage I has been completed and ¼ of the drilling on Stage II. Only sludge on the first two holes have been assayed. We plan on submitting split core on the same sections for assay. It is believed that the core will show a higher assay than the sludges.

No detailed description of the drill results will be attempted until all of the data are available.

Stage II drilling will be completed as soon as possible next spring. Probably this will be during July.

Robert J. McRae

McRAE TUNGSTEN CORP.
RED BLUFF MINE
Section of D.D. Hole
RED BLUFF No. 1
Oct. 31, 1958
Scale 1" = 20'



"ALBANENE" No. 1559M K+E CO., N.Y.
REG. U.S. PAT. OFF.

MCRAE TUNGSTEN CORP
RED BLUFF MINE
DRILL HOLE NO. L

Bearing West
Inclination Minus 30
Elevation 8081

Collar from Sta. 42
Bearing N 70 W
Hor. Dist. 41.01

FOOTAGE	DESCRIPTION	SLUDGE HUBNERITE	CORE SIZE	%RECOVERY
0-2	Aplite with pyrite	None	BX	90
2-7	Aplite with pyrite	"	AX	80
7-9.5	Siliceous aplite, brecciated and re-cemented, schistose inclusions.	"	"	85
9.5-12	Siliceous aplite	"	"	85
12-15	Siliceous aplite, weathering extends to 13', then metamorphosed, schistose sediments with flourite and pyrite.	"	"	65
15-19	Schistose sediments, much silicification. First Hub. crystal at 17', 1% at 17.0-17.3.	0.40 % WO_3	"	50
19-24	Metamorphics, almost completely silicified. Hub. crystal at 21.8'.	0.37 % WO_3	"	90
24-28	Highly silicified metamorphics; flourite and pyrite.	0.05 % WO_3	"	35
28-29	Complete silicification; traces of metamorphic structure; much flourite.	0.05 % WO_3	"	10
29-34	Highly siliceous metamorphics, much flourite.		"	35
34-36	Silicified metamorphics to 34.3 then moderately basic dike to 35.5, then siliceous metamorphics	0.06 % WO_3	"	35
36-39	Schistose sediments, poor silicification.			40

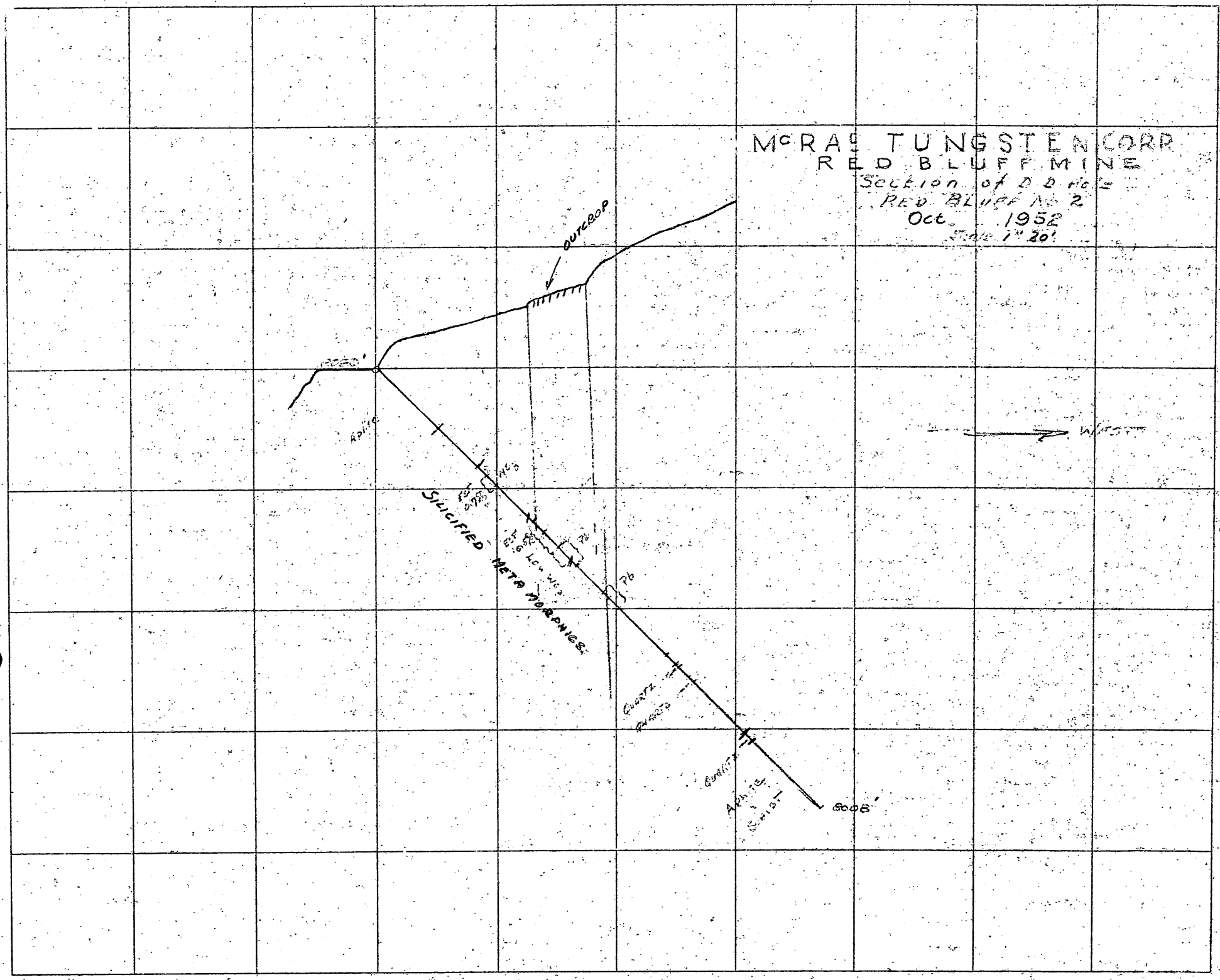
MCRAE TUNGSTEN CORP
RED BLUFF MINE
DRILL HOLE NO. 1
(cont)

Bearing West
Inclination Minus 30
Elevation 8081

Collar from Sta. 42
Bearing N 70 W
Hor. Dist. 41.01

FOOTAGE	DESCRIPTION	SLUDGE HUBNERITE	CORE SIZE	% RECOVERY
39-42.5	Siliceous metamorphics to 40.5, then harder, denser quartz. Looks like vein quartz as contrasted to replacement quartz. Good hubnerite-fine grained but considerable.	0.06 % WO_3	AX	90
42.5-47	Vein quartz and siliceous metamorphics. Good ore to 43, then poor. Less silicification, more remnants of metamorphics.	0.07 % WO_3	"	30
47-52.5	Siliceous metamorphics. No hubnerite, some flourite.	none	"	90
52.5-58	Siliceous metamorphics, no hubnerite.	none	"	80
58-63	Siliceous metamorphics. No hubnerite.	none	"	
63-68	End of mineralized section appears to be at 63.5, then chloratized and sericitized aplite with some flourite.	none	"	75
68-73	Same to 72, then vein quartz with good mineralization, fair hubnerite.	0.06 % WO_3	"	80
73-78	Chloratized metamorphics, then 0.4' quartz vein, then schist, then high grade quartz vein 74.3-74.6. Est. 15% WO_3, then silicified schist.	1.24 % WO_3	"	100
78-83	Silicified schist, no hubnerite, some flourite.	trace		95

End of hole at 83'.



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

MCRAE TUNGSTEN CORP
RED BLUFF MINE
DRILL HOLE NO. 2

Bearing N 70 W
Inclination Minus 45
Elevation 8080

From Sta. 42
Bearing N 27 W
Hor. Dist. 102'

FOOTAGE	DESCRIPTION	SLUDGE HUBNERITE % WO_3	CORE SIZE	%RECOVERY
0-5	Aplite, traces of galena		BX	30
5-7.5	Aplite		AX	85
7.5-13.5	Aplite		"	35
13.5-18.5	Aplite, siliceous metamorphics, from 14'.		"	35
18.5-23	Same to 20, then less siliceous, more schistose.		"	30
23-25	Siliceous metamorphics, some hubnerite.	(x)	"	30
25-27.5	Siliceous metamorphics, good hubnerite.	0.16	"	40
27.5-29.5	Siliceous metamorphics, no hubnerite.	(x)	"	10
29.5-33	Siliceous metamorphics, no hubnerite.	(x)	"	8
33-36	Siliceous metamorphics no hubnerite.	(x)	"	30
36-38.5	Siliceous metamorphics, then stronger Sil. with hubnerite.	0.85	"	75
38.5-39.5	Same but lower in grade.		"	80
39.5-42	Same but lower grade	0.55	"	100
42-46	Same, grade is better; hubnerite 0.7% to 43 then drops off, considerable galena.		"	75
46-48	Sil. meta. and aplite.	(x)	"	50
48-52.5	Completely sil. meta.; pyrite and galena.	(x)	"	80

(x) Sludge yet to be assayed.

MORAE TUNGSTEN CORP
RED BLUFF MINE
DRILL HOLE NO. 2
(cont)

Bearing N 70 W
Inclination Minus 45
Elevation 8080

From Sta. 42
Bearing N 27 W
Hor. Dist. 102'

FOOTAGE	DESCRIPTION	SLUDGE HUBNERITE % WO_3	CORE SIZE	%RECOVERY
52.5-56	Sil. meta., hubnerite to 53.5, about 0.7% WO_3, some galena.	0.03	AX	90
56-57	Sil. meta., no hubnerite.		"	95
57-60	" ", trace hubnerite 58.6'.	(x)	"	90
60-64.5	Sil. meta., much pyrite, trace flourite.		"	75
64.5-66	Sil. Meta., much pyrite, trace flourite.		"	70
66-69.5	Sil. Meta. and aplite; vein quartz with aplitic inclusions from 67'.		"	70
69.5-70.5	Quartz		"	100
70.5-73	Altered aplite, quartz at 72.5'.		"	95
73-74	Quartz, aplitic from 73.5.		"	90
74-77	Aplite with chlorite, pyrite, and galena.		"	90
77-81	Sil. Meta. approaches quartzite.		"	85
81-85.5	Same.		"	40
85.5-90.5	Quartz to 87.5 then Sil. Schist		"	50
90.5-95.5	Chloritized aplite.		"	60
95.5-100	Schist to 97.5', then oxidized aplite.		"	50
100-103	Soft argillaceous quartzite(?)		"	60

(x) Sludge yet to be assayed.

MC RAE TUNGSTEN CORPORATION
RED BLUFF CLAIMS
Valley County, Idaho

Plate No. 1

COMPOSITE MAP OF RED BLUFF WORKINGS
SCALE: 1" = 20'

EXPLANATION

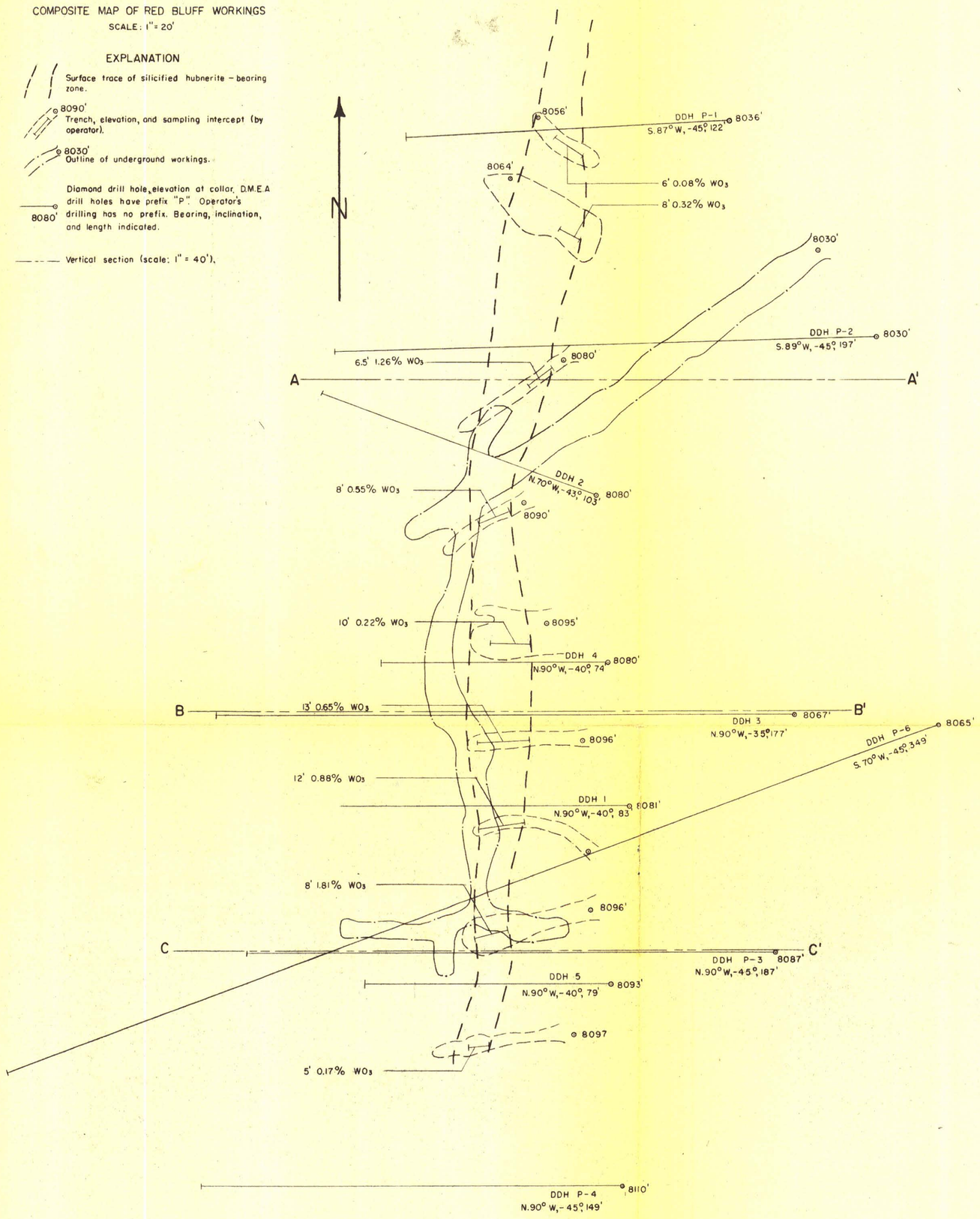
Surface trace of silicified hubnerite - bearing zone.

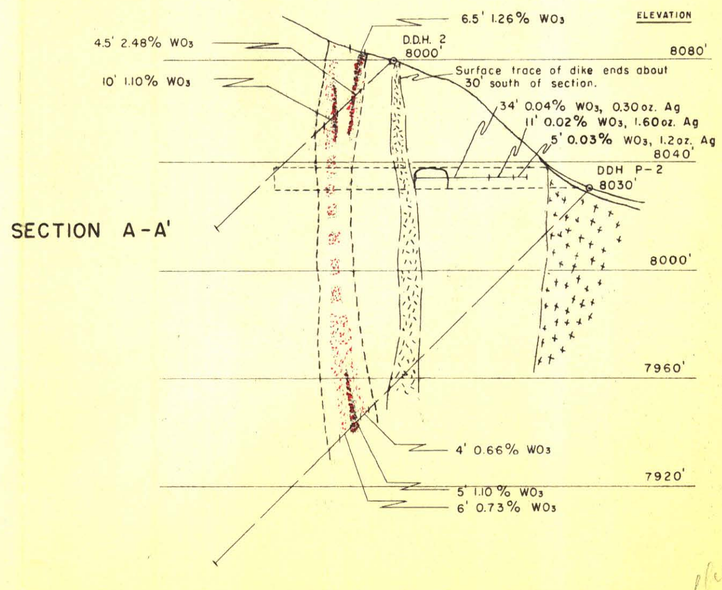
8090' Trench, elevation, and sampling intercept (by operator).

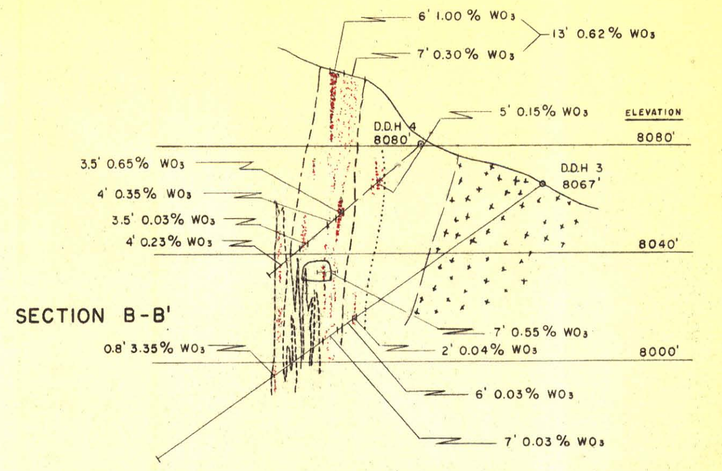
8030' Outline of underground workings.

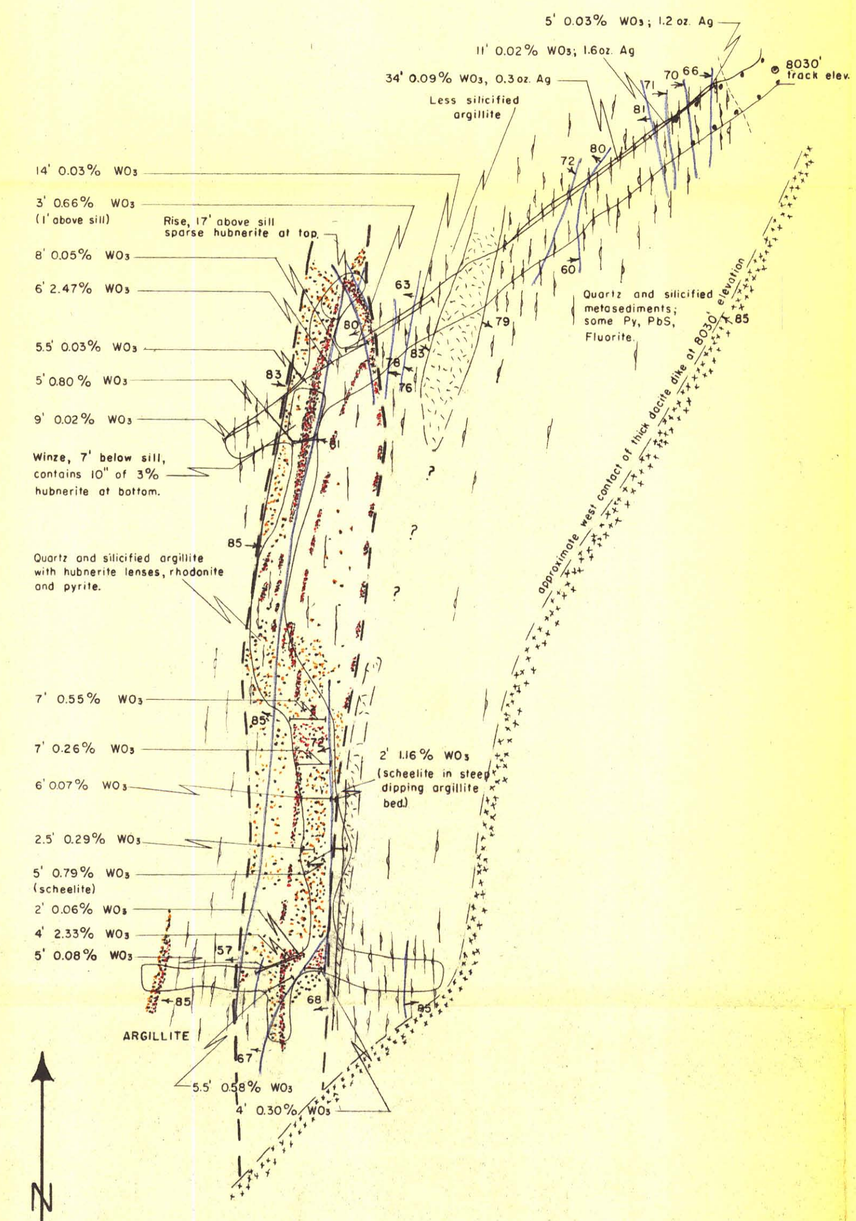
8080' Diamond drill hole, elevation at collar. D.M.E.A drill holes have prefix "P". Operator's drilling has no prefix. Bearing, inclination, and length indicated.

Vertical section (scale: 1" = 40').









GEOLOGY OF D.ME.A. ADIT
SCALE: 1" = 20'

EXPLANATION

Hubnerite bearing zone having steep west dip, generally well silicified with remnants of silicified metamorphic rocks as described below. Red color indicates hubnerite; yellow color indicates silicification.

Steeply dipping series of interbedded argillites and impure quartzites, in part schistose. Silicification ranges from nil to locally intense.

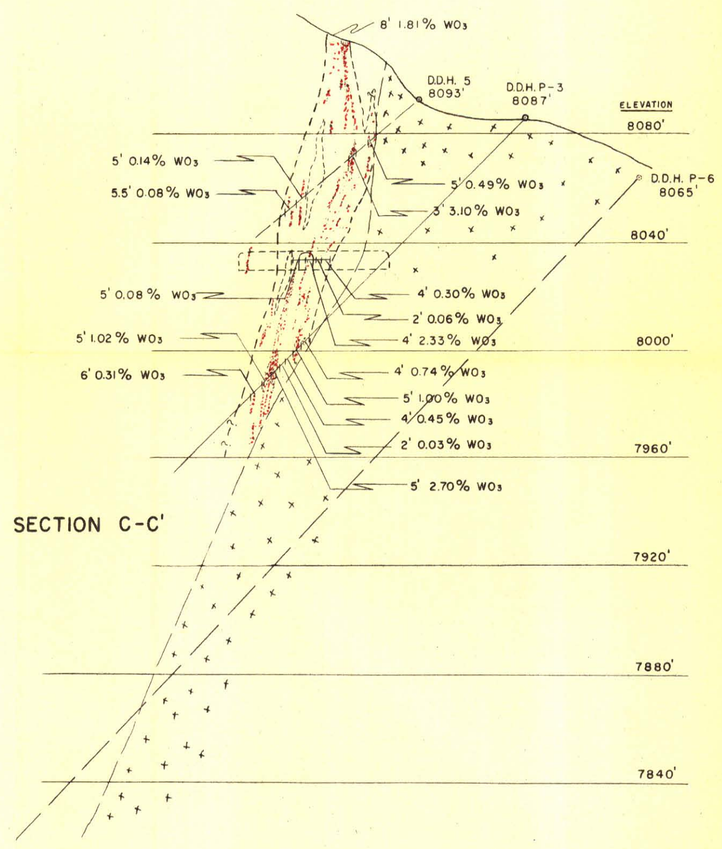
Rhyolite dike.

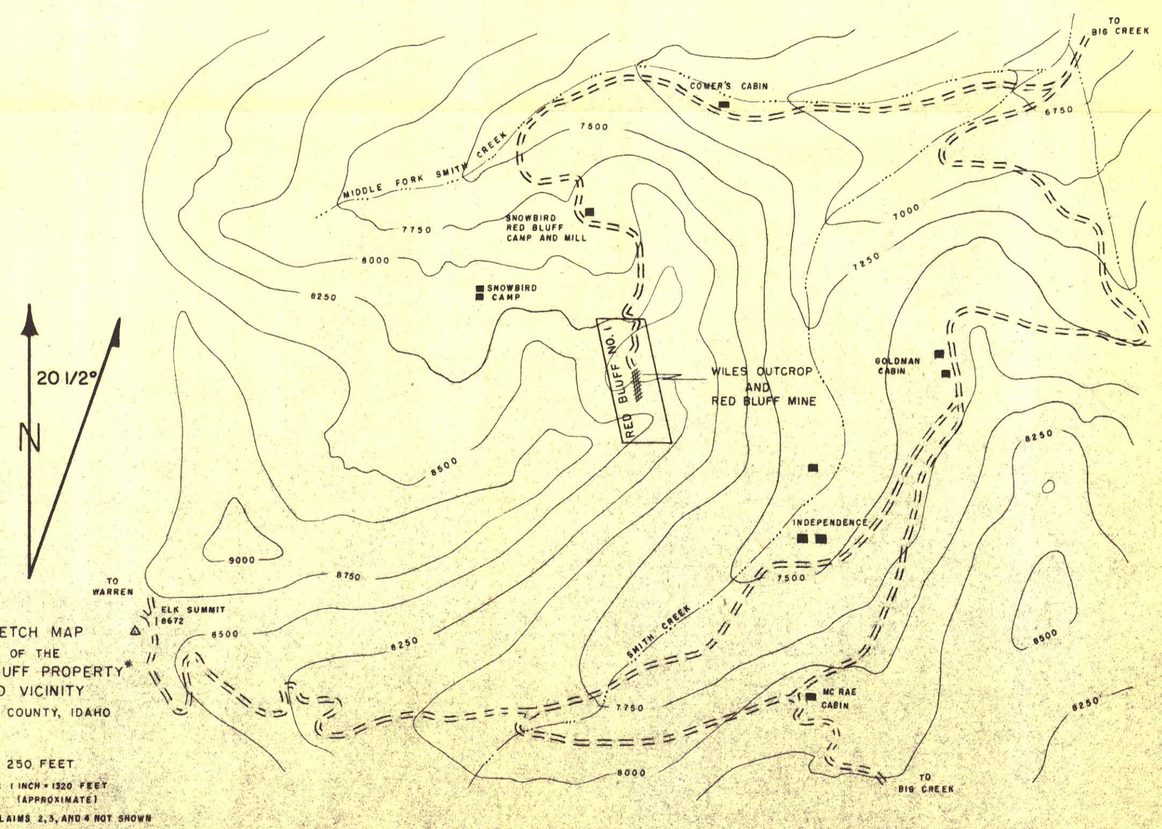
85 West contact of thick dacite porphyry dike having fine-grained border phase. Dike contains feldspar phenocrysts in fine-grained, green matrix.

60 Fault.

Sampling intercept, by operator, 4' above sill unless otherwise indicated.

5.5' 0.58% WO3

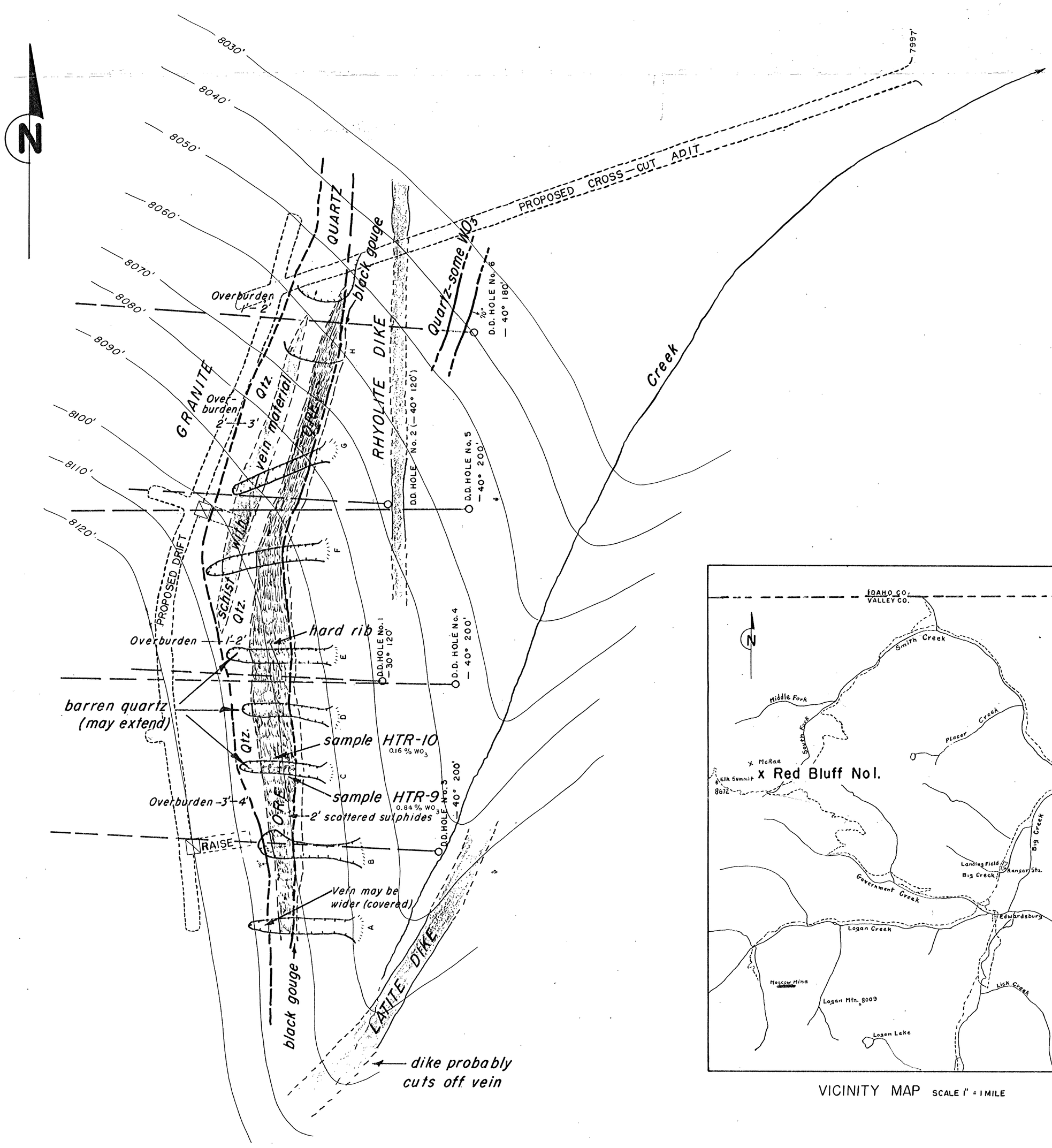




SKETCH MAP
OF THE
RED BLUFF PROPERTY*
AND VICINITY
VALLEY COUNTY, IDAHO

C.I. 250 FEET
SCALE: 1 INCH = 1320 FEET (APPROXIMATE)
* RED BLUFF CLAIMS 2, 3, AND 4 NOT SHOWN

Official Docket Copy

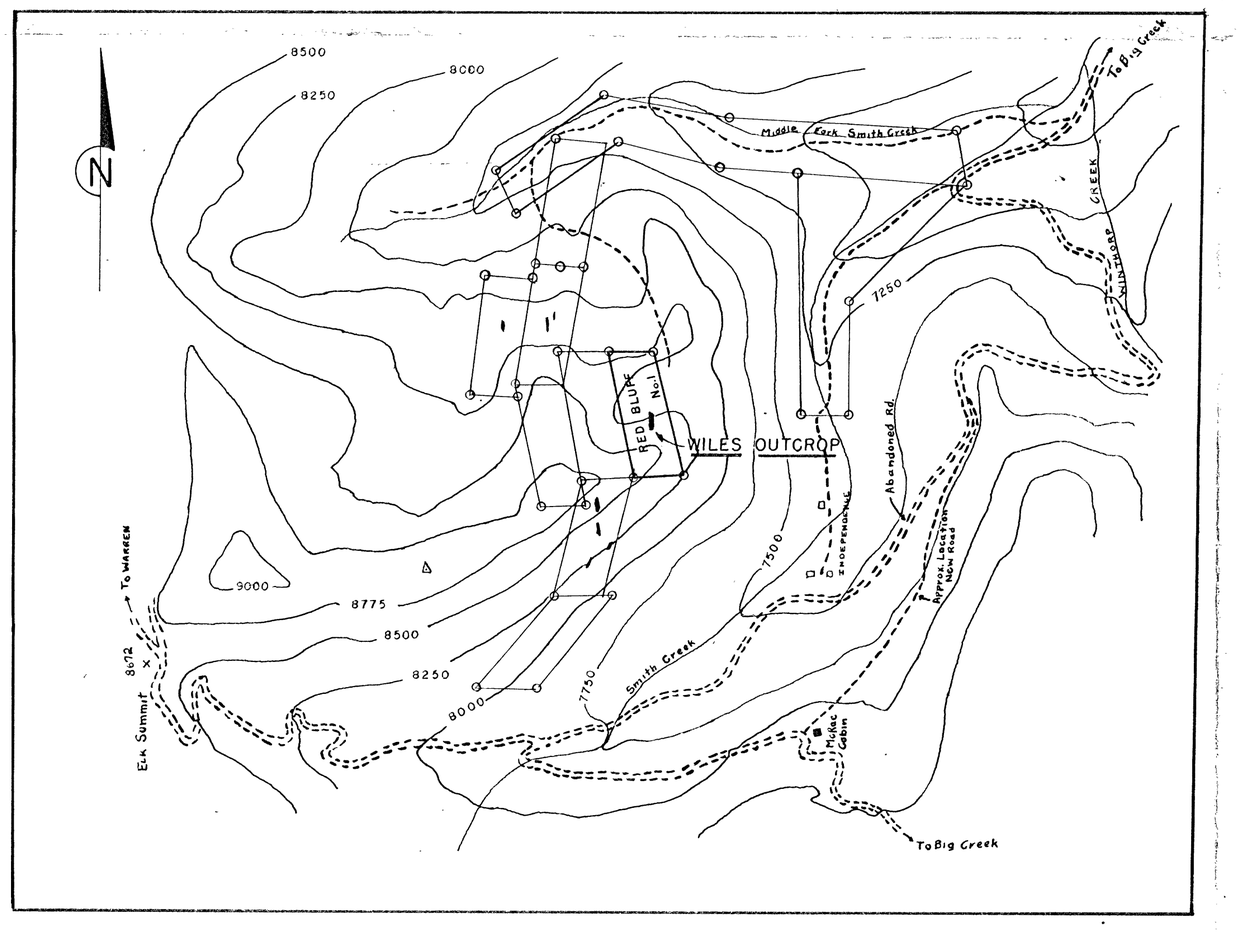


DETAILS OF WILES OUTCROP

Scale 1" = ~~20'~~ 40'

0 20 40 80 120

VICINITY MAP SCALE 1" = 1 MILE



PLAT OF CLAIMS

MC RAE TUNGSTEN CORP.

SCALE 1" = 1320'

U.S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Proposed exploration

MC RAE TUNGSTEN
RED BLUFF NO. I.

VALLEY COUNTY, IDAHO

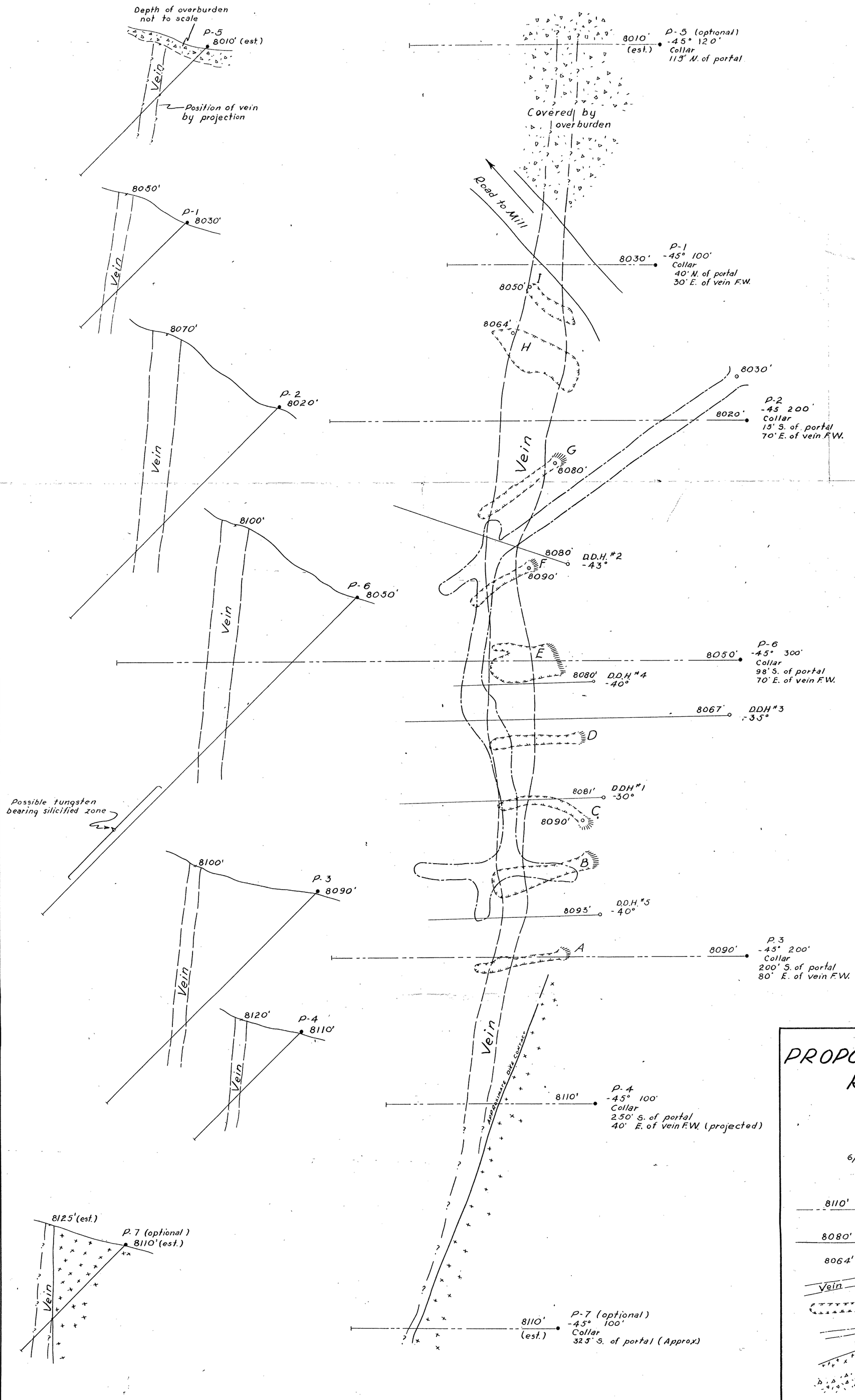
H.T. Reno — Engr
Drawn by Web Anderson

August 1952

SECTIONS OF PROPOSED DIAMOND DRILL HOLES

SCALE 1" = 40'

Looking North



Map & Sections after Operator.

PROPOSED DIAMOND DRILLING RED BLUFF PROPERTY

Valley County, Idaho

Contract No. Idm. E 406

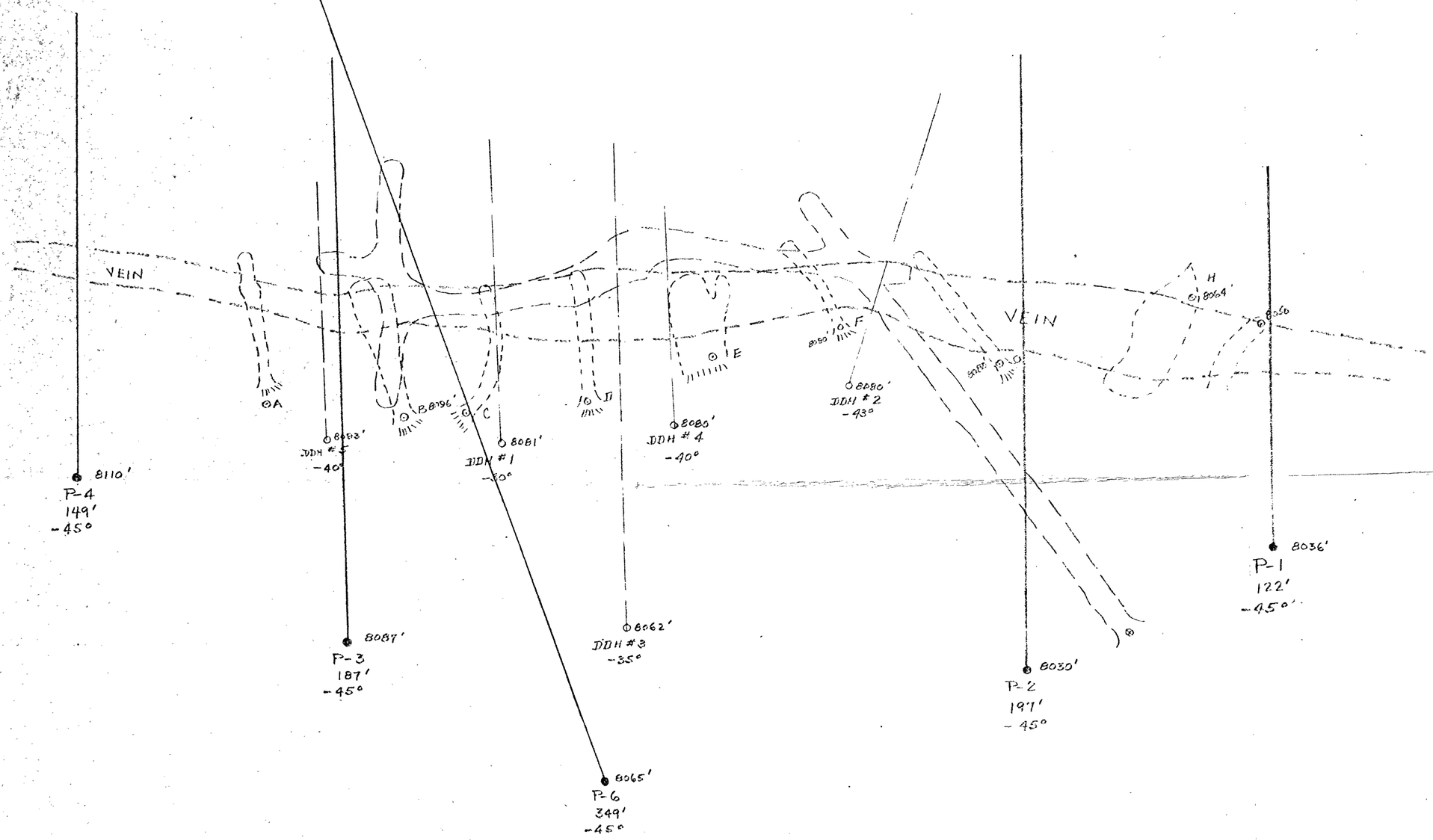
Scale Map 1" = 20'

Sections 1" = 40'

6/28/54 To accompany proposed amendment No. 4.

EXPLANATION

8110' P-4	Proposed diamond drill hole, showing approximate elev. at collar, Approximate location as indicated. (est.) estimated elevation at optional holes. Collar
8080' D.D.H. #4	Diamond drilling already done by operator.
8064'	Elevation.
Vein	Surface trace of tungsten-bearing silicified zone; average dip 85° W.
A	Trenching done on tungsten-bearing silicified Zone.
	Underground workings, portal indicated.
	Approximate surface trace of thick dacite dike at southern end of property, dip vertical.
	Area obscured by overburden.



RED BLUFF PROPERTY

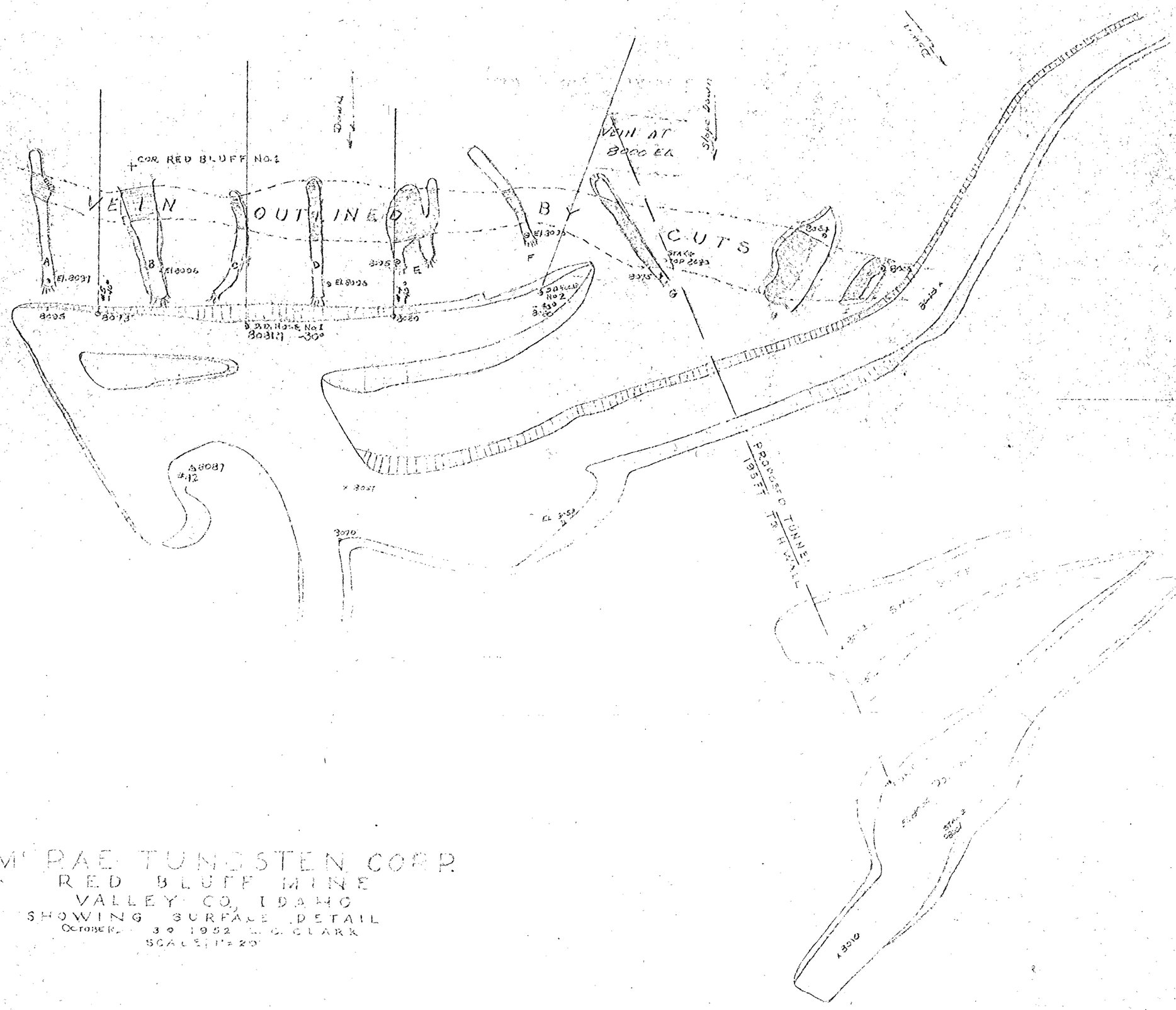
DIAMOND DRILL PLAN

McRAE TUNGSTEN CORP. — VALLEY CO., IDA.

CONTRACT IDM E 406

P-1 = DIAMOND DRILL HOLES COMPLETED DURING AUGUST 1955

Scale 1" = 20'



McRAE TUNGSTEN CORP.
RED BLUFF MINE
VALLEY CO. IDAHO
SHOWING SURFACE DETAIL
OCTOBER 30 1952 W. G. CLARK
SCALE 1" = 20'