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DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

RECEIVED
APR 23 1956

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Henry Monsh and Alvin Monsh, Partners
Arvada, Colorado.

WSM

pertaining to Exploration Project Contract No. Idm-2810, Docket No. DMEA-3546, including Amendment No. 1, and Termination Agreement dated April 9, 1956, for the months of July, 1955 to February, 1956, inclusive, covering a project for the exploration of Tungsten on property known as Big Cameron Mine, located in Boulder County, Colorado.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Executive Officer, DMEA Field Team, and a determination of the reasonableness and propriety of the costs.

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

> All of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs for work actually performed.

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

Total cost as billed by Contractor		$7,810.00
Exceptions:		
By DMEA Finance Officer	$0.00	
Herewith	0.00	0.00
Total Accepted Cost		$7,810.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Five thousand, eight hundred fifty-seven and 50/100ths Dollars

** $5,857.50 **

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

April 19, 1956

T. H. Brading, Audi

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

RECEIVED
MAR 15 1956

224 New Customhouse
Denver 2, Colorado

March 13, 1956

Messrs. Hans Mosch and Alvin Mosch
5275 Dover
Arvada, Colorado

WSM

Re: DMEA Docket 3546 (Tungsten)
Contract Idm-E810
Big Cameron Mine
Boulder County, Colorado

Gentlemen:

Your Monthly Report and Voucher for the period February 1956 has been received and is being processed for payment. As the contract expired on March 6, 1956, which was prior to the date of inspection of February progress, and as no work was performed during the period March 1-6, 1956 an amount of $50.00 is withheld pending resolution of matters relative to closing the account, which includes the rendering of an acceptable Final Engineering and Geologic Report as stipulated in Article 6 (c) of the contract, and the release of a Report of Review of Contract expenditures by the Contract Administration and Audit Division, DMEA.

If you should need any advice regarding the preparation of the Final Report, please feel free to contact this office or Mr. Shaw's office.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

JDC:jy
cc: Corresp. E810
Sec. Op. Comm. (2)
Harshman
Shaw (2)
Townsend
Chron.

Geb

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MAR 16 1956

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

FINAL DISTRIBUTION
MAR 14 1956
MADE

Administrative Audit Difference Statement

Mr. Hans Losch and Mr. Alois Losch
5275 Dover Street
Arvada, Colorado

Date: March 12, 1956
Payee's Reference: February 1956

Gentlemen:

WSM

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

Amount Claimed $ 650.00

Difference $

Amount Approved $ 650.00

The reason for the difference was due to:

Withhold $50.00 pending resolution of matters relative to closing the account.

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

Very sincerely yours,

Feb
MT
104

N. E. Stokes
Audit Section

R-III-B & F Form No. 4
4-15-52 D

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

RECEIVED
MAR 16 1956

224 New Customhouse
Denver 2, Colorado

March 12, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546 (Tungsten) Contract Idm-E810, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado - Operator's Monthly Progress Report, for the period February 1956

Enclosed are the original and four copies each of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operater has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Withhold an amount of $50.00 pending resolution of matters relative to closing the account. The contract expired on March 6, 1956 and the Operator has indicated that no extension of the completion date will be requested.

Reconciliation with Amount Claimed on Form MF-104 for the Period February, 1956

Amount claimed by Operator	$864.00
Government participation at 75 percent	648.00
Amount withheld	50.00
Recommended payment to Operator	$598.00

Remarks

Date of Report----------March 1, 1956
Date Received in Field Office---------- March 8, 1956
Date Received in Region Office-------- March 12, 1956

W. M. TRAVER

W. M. Traver

Enclosures

JDC:jy

cc: MF-104 File E810
Sec. Op. Comm. (2)
Shaw (2)
Townsend w/copy engr's report
Chron.

DMEA
Date Rec'd.

MAR 12 1956

BUREAU OF MINES
Denver, Colorado

Balmer memo 3/9

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
March 9, 1956

RECEIVED MAR 16 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shea

From: R. L. Balmer

Subject: DMEA 3546, Contract Lm-2810 (Tungsten) Mosch and Mosch (Big Cameron mine) Boulder County, Colo. - Progress report for February 1956

The progress reported this period under the subject short-form contract - 32 feet of drifting southwesterly along the Steel Plate vein on the new 104-foot level off the Big Cameron shaft - was verified during an inspection of the property March 7, 1956.

On the date of inspection, a total of 138 feet of combined cross-cutting and drifting had been completed on the 104-foot level west of the shaft. The operator previously has reported and been reimbursed for 106 feet of this distance. The 32 feet of advance reported for the February period, therefore, is valid and proper.

The Steel Plate vein began to weaken and split up about 100 feet west of the shaft. Project drifting this period followed the stronger footwall branch of the structure. This branch is represented by a single, narrow shear within the schist country rock. At no point along the final 30 feet of the heading is the structure more than an inch or two wide. Although its walls are slickensided, the shear is very tight and contains no filling other than a minor amount of fault gouge. The adjacent wall rock is highly fractured and exhibits intense chloritization. Toward the breast of the heading, the footwall structure split again. Each branch narrowed to a knife edge and lost its identity among the other fractures within the schist.

The contract authorizes 152 feet of drifting southwesterly along the Steel Plate vein on the 104-foot level. All but 14 feet of the authorized distance has been completed. Due to the unpromising character of the structure, the operator has no desire to complete the remaining footage and probably will request permission of the Government to terminate the project. The contract expired March 6, 1956. Under the circumstances, there appears no need for its extension.

We don't have to do anything about this now. See Traver's letter of Mar. 13 to Mosch & Mosch
3/19/56
WJM

On the date of inspection, the 104-foot level had been extended some 44 feet northeast of the shaft. This heading started in the footwall of the Steel Plate vein and intersected that structure within 30 feet. The vein exposed along the final 14 feet of the heading is a strong structure some 1½ to 2 feet wide occurring between well defined hanging and footwalls of schist and gneiss that has been intruded by pegmatite. The structure strikes N. 63° E. and dips 76° NW. It is composed chiefly of sheared, highly altered, and brecciated wall rock and contains minor quartz and fault gouge. In several spots, a few narrow seams of rusty, pocket-type ferberite mineralization was observed. Work northeast of the shaft is not authorized under the contract but is being carried out at the operator's own expense. The operator intends to continue this heading for a short distance to test the vein below the known ore shoots in the workings off the old Steel Plate shaft.

The $864.00 total costs reported for this period on the operator's MF-104 forms - equivalent to the completed 32 feet of drifting at the agreed upon unit price of $27.00 per foot - are approved. Reimbursement to the operator of 75 percent of the approved amount, or $648.00, is recommended. Inasmuch as this probably will be the final payment due the operator under the contract, the usual percentage should be held back until the operator's final report has been submitted and the other details regarding the termination of the project have been resolved.

R. L. Bolmer

Robert L. Bolmer
Mining Engineer

RLB/mr
cc: 6
Idm-2810
Chron

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAR 16 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1956 Docket No. DMEA 3546 Contract No. IDM-E810
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Dover St., Arvada Colo.
Contract Amount, $ 8280.00 Government Participation: 75 % Amount, $ 6210.00

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						
~~XXXXXXXS~~inking	0	$4080.00	$4080.00			
Drifting X	$864.00	$2862.00	$3726.00			
Assaying	0	$0004.00	$0004.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$864.00	$6946.00	$7810.00	864.00	6,946.00	7,810.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date March 1, 1956 Payee Hans Mosch, Alvin Mosch
Per Alvin Mosch Title Partner

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

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

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
$ 598.00
Signature [illegible]
(Authorized Certifying Officer)
Date 3/13/56 Vou. No. DMA 56 81
(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. Adm-E810 in accordance with the terms of the contract.

Signature R. L. Kolmer, $648.00 Title Mining Engineer Date MAR - 8 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Tracy Title Executive Officer Date MAR 12 1956

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
MAR 16 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 1956 Docket No. DMEA 3546 Contract No. [illegible]-5810
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Porter Ct. Arvada Colorado

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	Feet	764.00	22	3756.00	136	27.00	152	27.00
Crosscutting								
Raising								
Shafts	Feet	1000.00	0	4080.00	60	68.00	60	68.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	Each	10.00	0	60.00 *	1	60.00	26	4.00
TOTAL DISTRIBUTED COSTS		2864.00		7810.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2864.00		7810.00				8500.00

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

Date March 1, 1956 Operator Hans Mosch, Alvin Mosch

Per Alvin Mosch Title Partner

REMARKS: Contract cost for the month of Feb. commenced Feb. 1, 1956.

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)

Should be $4.00
R. L. Bolmer

INSTRUCTIONS

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

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

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

GPO 872894

NARRATIVE REPORT

(Month Of Feb. 1956)

RPB RECEIVED
MAR 16 1956

Docket No. DMEA-3546

Contract No. IDM-2810

Underground work performed within the Big Cameron Mine throughout the month of February 1956 included driving the DMEA contracted drift to a south-westerly distance of one-hundered and thirty-eight feet from the Big Cameron shaft. A north-easterly drift on the same level was extended to thirty feet from the shaft. Some maintenance work was also carried out in the fifty-four foot level and stope.

The vein in the south-westerly drift has diminished and a fill separating the granite walls appears to be a gouge of schist. The walls vary from about five to eight feet apart. The schist decays easily and creates a condition of bad ground which requires constant barring down of slabs throughout the untimbered portion of the drift.

Driving of the north-easterly drift from the Big Cameron Shaft has opened up a vein consisting of vuggy horn quartz, brown and black banded horn, black stain throughout the horn and adjacent gangue and walls, and several short thin, vertical seams of ferberite near the slickenside of the hanging wall. The south wall next to this vein is aplite.

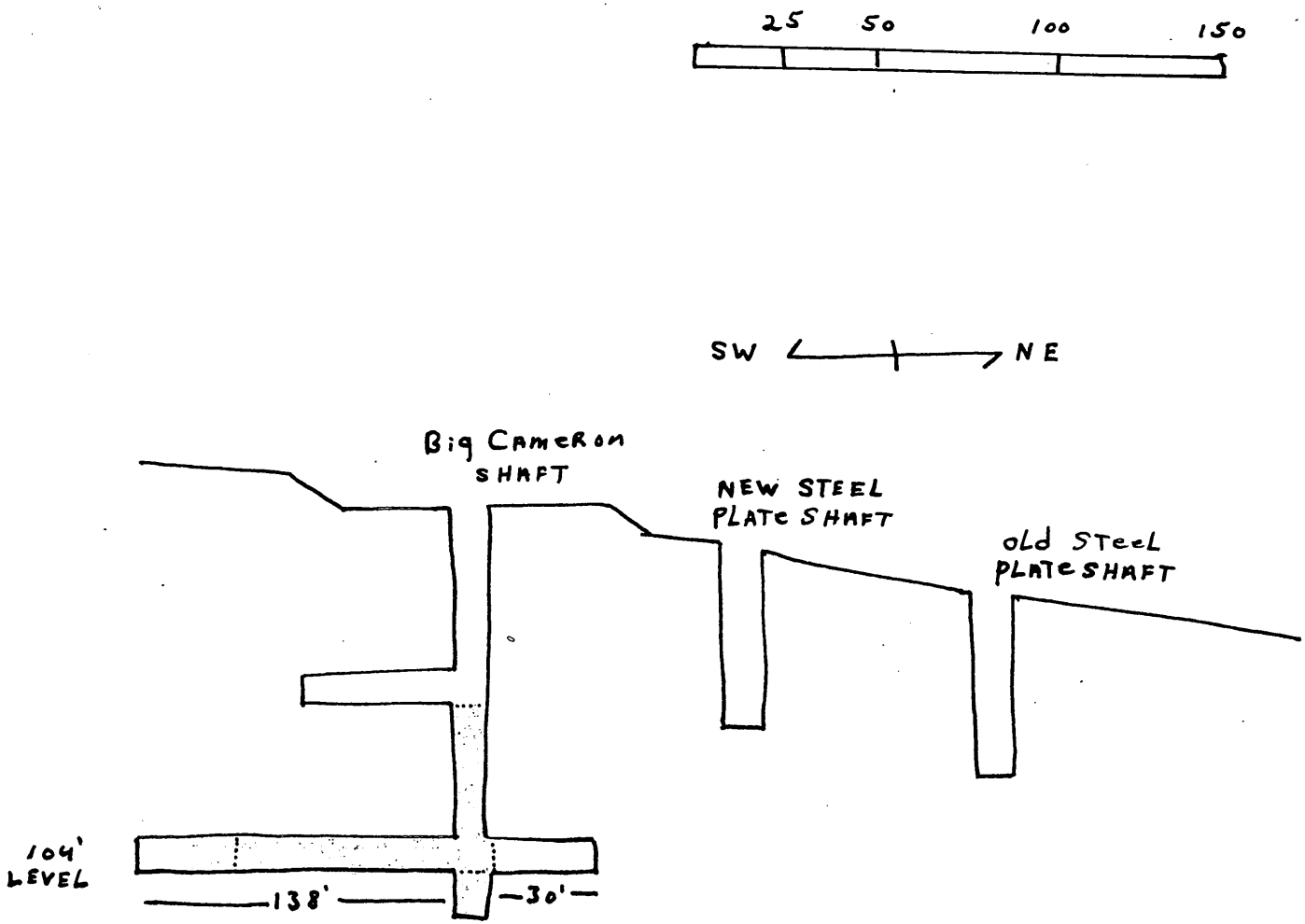
Hans Mosch

Hans Mosch(partner)

Alvin Mosch

Alvin Mosch(partner)

☐ WORK DONE BEFORE
☐ "_____" in FEB.



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MAR 16 1956

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

FEB 10 1956

FINAL DISTRIBUTION
FEB 14 1956
MADE

224 New Customhouse
Denver 2, Colorado

February 9, 1956

W/M

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546 (Tungsten) Contract Idm-E810, Hans Mosch and Alvin Mosch, Big Cameron Mine, Boulder County, Colorado - Operator's Monthly Progress Report, for the period January, 1956

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Amount Reported by Operator on Form MF-104 $945.00

Recommended payment to Operator at 75 percent $708.75

Remarks

Date of Report----------February 1, 1956
Date Received in Field Office---------- February 6, 1956
Date Received in Region Office---------- February 9, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E810 Shaw (2)
Sec. Op. Comm. (2) Chron.

Jan MF-104

DMEA
Date Rec'd.
FEB 9 1956
BUREAU OF MINES
Denver, Colorado

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
February 8, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shea AWH for
Supervising Mining Engineer

From: R. L. Bolmer

Subject: DMEA 3546, Contract 16m-2810 (Tungsten) Mesch and Mesch (Big Cameron mine) Boulder County, Colorado - Progress report for January 1955

The progress reported this period under the subject short-form contract - 35 feet of drifting southwesterly along the Steel Plate vein on the new 164-foot level of the Big Cameron shaft - was verified during an inspection of the property February 7, 1956.

On the date of inspection, a total of 186 feet of combined crosscutting and drifting had been completed on the 164-foot level west of the shaft. The operator previously has reported and been reimbursed for 71 feet of this distance. The 35 feet of advance reported by the operator for the January period, therefore, is valid and proper.

The Steel Plate vein, as exposed by previous project drifting southwesterly along the 164-foot level, was represented by a steeply dipping shear zone, 2 to 3½ feet wide, within a country rock of biotite-schist. The zone had sharply defined slickenside walls and consisted principally of brecciated country rock and clay gouge with minor lenses and streaks of quartz and feldspar. It contained no tungsten mineralization. Along certain sections, the rock within the zone was moderately to highly altered; along others, it was comparatively fresh. The wall rock adjacent to the zone, while soft and fractured, was relatively unaltered.

During the January advance of the project heading, at a point some 150 feet southwest of the shaft, the Steel Plate vein split into two rapidly diverging shears. Although both branches of the structure had well defined slickensides walls, each was very tight and narrow and contained little gouge or other mineral filling. The wall rock adjacent to each split and the "horse" of country rock between them is highly fractured but shows relatively little alteration. The divergence of the two branches is such that both cannot be kept within the width of the southwest drift much beyond its present breast.

The work completed during January conforms with the provisions of the contract. The $905.00 total costs reported for the period on the operators MF-105 forms - equivalent to the completed 13 feet of drifting at the agreed upon unit price of $67.00 per foot - are approved. Reimbursement to the operator of 75 percent of the approved reported costs, or $678.75, is recommended.

for Scott W Hagen Jr
R. L. Bohner
Mining Engineer

RLB/mr
cc 6
Min-2810
Circus.

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
FEB 16 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1956 Docket No. DMEA 3546 Contract No. IDM-E810
Operator's Name Hans Hosch And Alvin Hosch Minerals Tungsten
Address 5275 Dover St. Arvada Colorado
Contract Amount, $ 8280.00 Government Participation: 75 % Amount, $ 6210.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
~~Crosscutting~~ Sinking	0	$4080.00	$4080.00			
Drifting	$945.00	$1917.00	$2862.00			
Assaying	0	$0004.00	$0004.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$945.00	$6001.00	$6946.00	945.00	6,001.00	6,946.00

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

Date Feb. 1, 1956 *Payee Hans Hosch, Alvin Hosch

Per Alvin Hosch Title Partner

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

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

(Instructions on reverse)

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

$ 708.75

Signature [illegible]
(Authorized Certifying Officer)

Date 2/10/56 Vou. No. DMA 56-69

(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. 6810 in accordance with the terms of the contract.

Signature R. L. Bolmer, #70875 Title Mining Engineer Date FEB - 8 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Kinney Title Executive Officer Date FEB 9 1956

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 MEr104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
FEB 16 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1956 Docket No. DMEA 3546 Contract No. IIM-8310

Operator's Name Hans Mosch And Alvin Mosch Minerals Tungsten

Address 5275 Lower St. Arvada Colorado

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	Feet	$945.00	35	$2862.00	106	$27.00	192	$27.00
Crosscutting								
Raising								
Shafts	Feet	$0.00	0	$4080.00	60	$68.00	60	$68.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Cobbaying	Each	$0.00	0	$24.00	1	$24.00	24	$24.00
Total Distributed Costs		$945.00		$6946				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$945.00		$6946.00				$8280.00

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

Date February 1, 1956 Operator Hans Mosch, Alvin Mosch

Per Alvin Mosch Alvin Mosch Title Partner

Remarks: Contract work for the month of January 1956 commenced Jan. 1, 1956

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)

R. L. Bolmer

INSTRUCTIONS

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

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

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

GPO 872894

Narrative Report

(Month of Jan. 1956)

RECEIVED
FEB 16 1956

Docket No. DMEA-3546

Contract No. Idm-E610

Contract work for the month of January 1956 consisted of extending the present drift thirty-five feet South Westerly from the Big Cameron Shaft. Approximately one hundered feet from the Big Cameron Shaft, the vein was replaced by a horse consisting of a decaying schist. Country walls are highly granitic. Sets of timber, the legs of which are seven feet apart, have been carried along with the drift.

Surface activity for the Month included replacing two faulty rods in the Buda power unit for the air compressor.

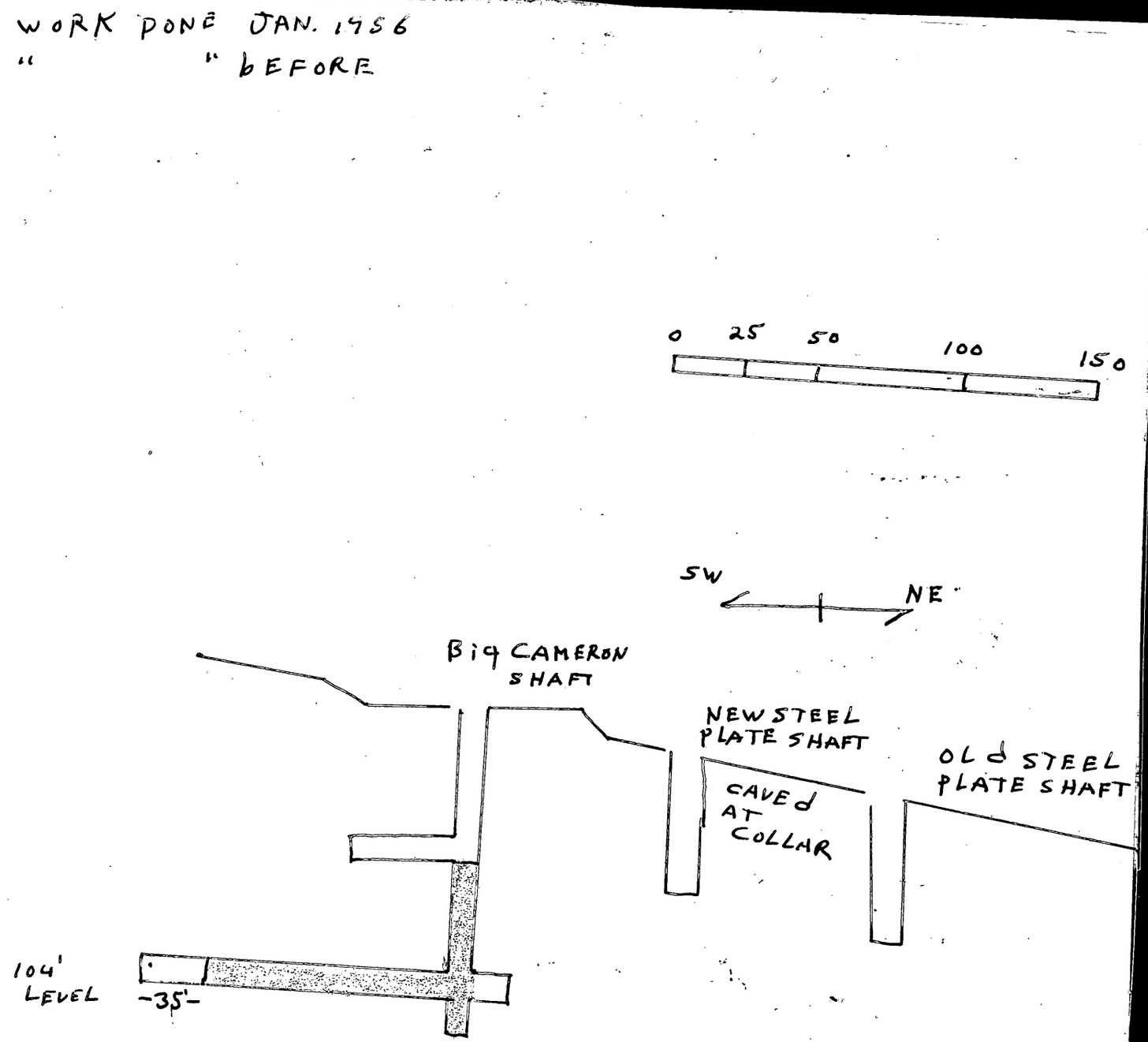
Hans Mosch

Hans Mosch(Partner)

Alvin Mosch

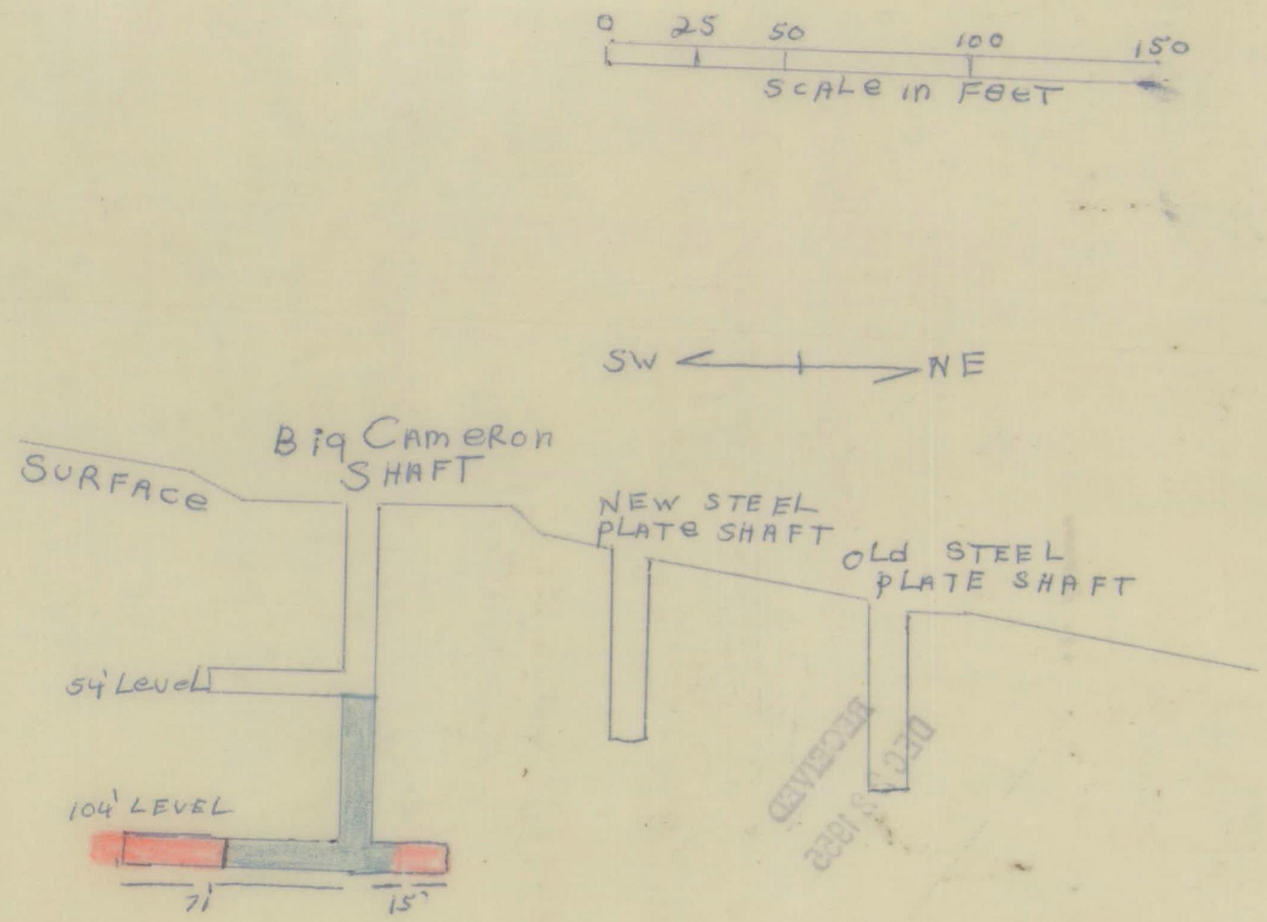
Alvin Mosch(Partner)

R.L.B.

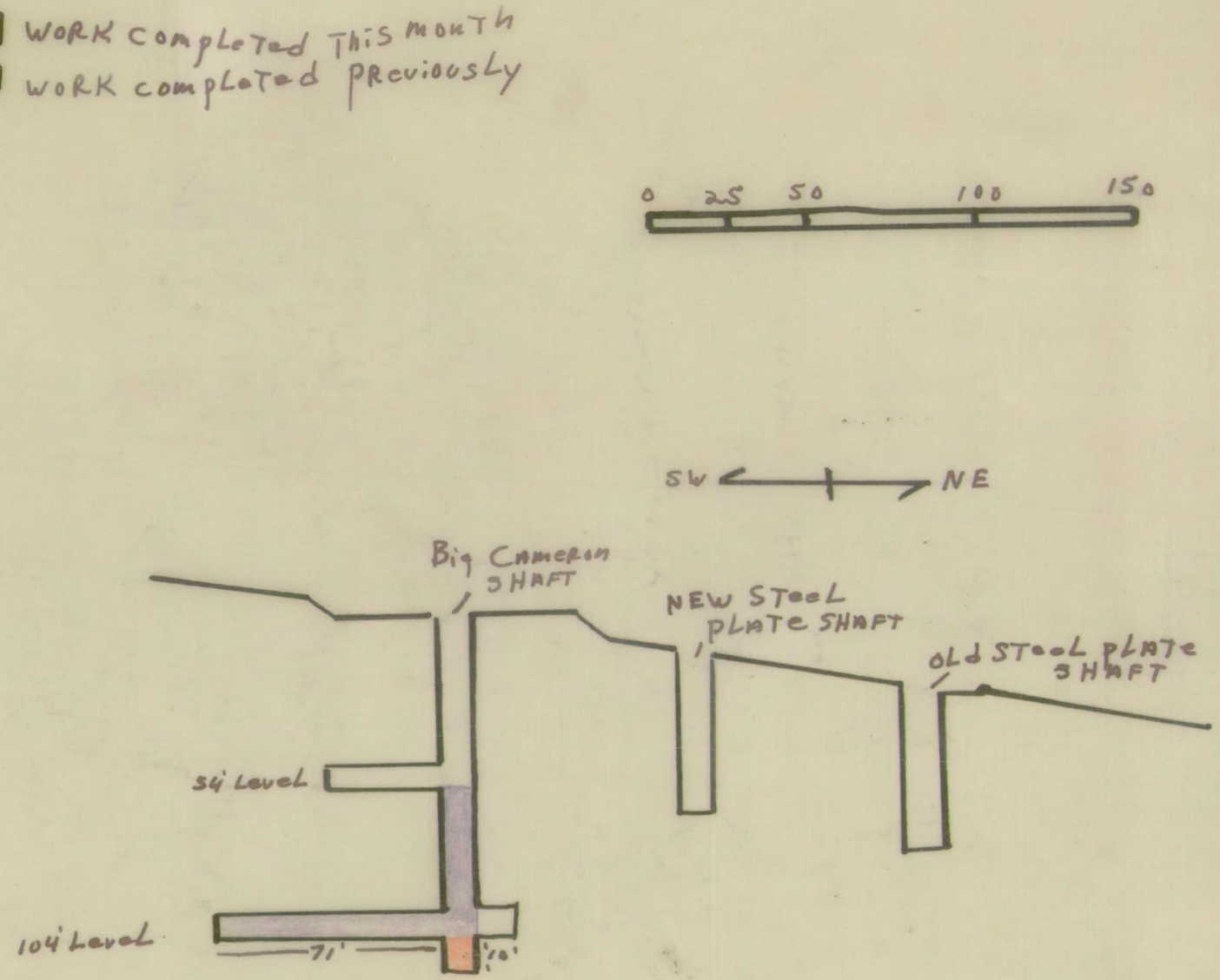


LONGITUDINAL SECTION ALONG STEEL PLATE VEIN

WORK completed previously
WORK completed This month



RECEIVED
JAN 30 1956



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

400

RECEIVED
FINAL DISTRIBUTION JAN 30 1956
JAN 26 1956
MADE

224 New Customhouse
Denver 2, Colorado

January 9, 1956

WSM

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546 (Tungsten) Contract Idm-E810, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado. Operator's Monthly Progress Report for the period December, 1955

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks

Date of Report- - - - - - - - - - - - - - - - - January 2, 1956
Date Received in Field Office- - - - - - - - - January 5, 1956
Date Received in Region Office- - - - - - - - January 6, 1956

W. M. Traver

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E810
Sec. Op. Comm. (2)
Shaw (2)
Chron.

MF-104 P
Rec'd

DMEA
Date Rec'd.

JAN 6 1956

BUREAU OF MINES
Denver, Colorado

Region III

Building 20
Denver Federal Center
Denver, Colorado
January 6, 1956

Memorandum

RECEIVED

JAN 3 0 1956

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: R. L. Bolmer

Subject: DMEA 3546, Contract Idm-E&ID (Tungsten), Mosch and Mosch (Big Cameron Mine), Boulder County, Colorado - Progress report for December 1955

The progress reported this period under the subject short-form contract — sinking the Big Cameron shaft an additional 10 feet to a new depth of 114 feet below its collar — was verified during an inspection of the property January 4, 1956.

The extension of the shaft below the 104-foot level will provide a sump needed to handle the increasing flow of mine water. Sinking the shaft a total of 60 feet or to a depth of 114 feet is authorized in the contract.

Certain sections along the 104-foot level southwest of the shaft were timbered during the period. The level has been extended some 12 feet northeast from the shaft. This northeast heading is yet in the footwall of the Steel Plate vein but ultimately will be turned in a more northerly direction so as to intersect the vein. The latter work is not authorized in the contract and is being performed at the operator's own expense. The operator intends to drive the authorized 104-foot level southwest drift simultaneously with this northwest or non-contract heading.

Most of the December period was spent in securing a new hoist for the project. A single-drum, geared hoist with a gasoline engine power unit was located in Idaho Springs, Colorado. It was transported to the property and installed near the collar of the shaft. The existing compressor house was enlarged so as to inclose the new installation. The operator plans to construct a new, more suitable headframe at the shaft collar. Three men, including the two operating partners, presently are employed at the property.

The $680.00 total costs reported for the period on the operator's MF-104 forms—equivalent to the 10 feet of completed shaft sinking at the agreed upon unit price of $68.00 per foot—are approved. Reimbursement to the operator of 75 percent of the approved reported costs, or $510.00, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

cc 6
DMEA 3546
RLB:ch RLBolmer Chron

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
JAN 30 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Hans Mesch And Alvin Mesch Minerals Tungsten
Address 5275 Dover St. Arvada Colorado
Contract Amount, $[illegible] Government Participation: [illegible] % Amount, $ 6210.00

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:						
[illegible] Drifting	0	$1917.00	$1917.00			
[illegible] Sinking	$680.00	$3400.00	$4080.00			
[illegible] Assaying	0	$4.00	$4.00			
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$680.00	$5321.00	$6001.00	680.00	5,321.00	6,001.00

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

Date January 11, 1956 *Payee Hans Mesch, Alvin Mesch

Per Alvin Mesch Alvin Mesch Title Partner

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

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

(Instructions on reverse)

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

$ 510.00

Signature [illegible]
(Authorized Certifying Officer)

Date 1/24/56 Voucher No. DMEA 56-63

(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. 8810 in accordance with the terms of the contract.

Signature R. P. Palmer, $51200 Title Mining Engineer Date JAN - 5 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Wm. Inaury Title Executive Officer Date JAN 9 1956

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(Apr. 1952)

Budget Bureau No. 42-R151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JAN 30 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 195 6 Docket No. DMEA [redacted] Contract No. IDM-[redacted]
Operator's Name Hans Hosch And Alvin Hosch Minerals Tungsten
Address [redacted] Dover St. Arvada Colorado

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	Feet	—	—	$1917.00	71	$27.00	152	$27.00
Crosscutting								
Raising								
Shafts	Feet	$680.00	10	$4080.00	60	$68.00	60	$68.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	Each	—	—	$4.00	1	$4.00	24	$4.00
TOTAL DISTRIBUTED COSTS		$680.00		$6001.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$680.00		$6001.00				

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

Date Jan. 1, 1956 Operator Hans Hosch, Alvin Hosch

Per Alvin Hosch Alvin Hosch Title Partner

REMARKS: Reason for contract work delay during the month of Dec. 1955 explained in adjoining narrative report.

→ 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)

R. L. Bolmer

INSTRUCTIONS

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

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

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

GPO 872894

RECEIVED
JAN 30 1956

NARRATIVE REPORT

(Month Of Dec. 1955)

Docket No. DMEA-3546

Contract No. IDM-E810

Principle work for the month of December 1955 consisted of installing a larger hoist, rebuilding the power unit driving the hoist, constructing an extension to the present building for enclosing the hoist unit, and of revamping the shafts headframe for purpose of handling a muck bucket of greater capacity. Extra timber was cut and prepared for use as needed in future drifting.

Underground work for the month of December 1955 included sinking a ten foot sump, and installing fresh timber in heavy sectors of the Big Cameron Shaft. Contract drifting will be performed throughout the month of January 1956.

Hans Mosch

Hans Mosch(Partner)

Alvin Mosch

Alvin Mosch(partner)

RCB.

402

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

RECEIVED
DEC 2 8 1955

224 New Customhouse
Denver 2, Colorado

December 20, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546 (Tungsten) Contract Idm-E810, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the period November, 1955.

E. N. Harshman

E. N. Harshman

Enclosures

mf-104
Nov '55

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

RECEIVED
DEC 8 1955

224 New Customhouse
Denver 2, Colorado

December 9, 1955

Memorandum

To: T. A. Christensen

From: Acting Executive Officer, DMEA Field Teams, Region III

Subject: DMEA Docket 3546, (Tungsten) Contract Idm-E810, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado. Operator's Monthly Progress Report, for the period November 1955

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks

Date of Report- - - - - - - - - - - - - - - December 1, 1955
Date Received in Field Office- - - - - - December 5, 1955
Date Received in Region Office- - - - - December 8, 1955

E. N. Harshman

E. N. Harshman

Enclosures
JDC:jy
cc: MF-104 File E810
Sec. Op. Comm. (2)
Shaw (2)
Chron.

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
December 7, 1955

RECEIVED
DEC 23 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John P. Shaw
Supervising Mining Engineer

From: R. L. Bolmer

Subject: DMEA 3546, Contract Idm-E810 (Tungsten) Mosch and Mosch, Big Cameron mine, Boulder County, Colorado - Progress report for November 1955

The progress reported this period under the subject short-form contract--33 feet of drifting southwesterly along the Steel Plate vein on the new 104-foot level of the Big Cameron shaft--was verified during an inspection of the property December 2, 1955.

On the date of inspection, a total of 71 feet of combined cross-cutting and drifting had been completed on the 104-foot level west of the shaft. The operator previously has reported and been reimbursed for 38 feet of this distance. The 33 feet of advance reported by the operator for the November period, therefore is valid and proper.

The Steel Plate vein exposed during the period is represented by a steeply dipping shear zone, 1 to 1-1/2 feet wide, within a wall rock of biotite-schist. The wall rock in this section has numerous injections of quartz and feldspar. The zone has sharply defined slickenside walls and is composed principally of highly altered, brecciated wall rock and a clay-like gouge. It contained no visible tungsten mineralization. The wall rock adjacent to the zone is soft and fractured. It sloughs badly after only short exposures and in most places requires timber support.

The other conditions encountered and work performed during the period are described in the operator's narrative.

The $891.00 total costs reported for the period on the operator's MF-104 forms--equivalent to the completed 33 feet of drifting at the agreed upon unit price of $27.00 per foot--are approved. Reimbursement to the operator of 75 percent of the approved reported costs, or $668.25, is recommended.

R. L. Bolmer

R. L. Bolmer, Mining Engineer

cc 6
E810
Chron

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
DEC 22 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1955 Docket No. DMEA 3546 Contract No. IDM-E810
Operator's Name Alvin Mosch and Hans Mosch Minerals Tungsten
Address 5275 Dover St. Arvada Colo.
Contract Amount, $ 6280.00 Government Participation: 75 % Amount, $ 6210.00

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 Drifting	$891.00	$1026.00	$1917.00			
Bulldozing Assaying	$0.00	$4.00	$4.00			
Crosscutting Sinking	$0.00	$3400.00	$3400.00			
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$891.00	$4430.00	$5321.00	891.00	4430.00	5321.00

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

Date Dec. 1, 1955 *Payee Hans Mosch, Alvin Mosch

Per Alvin Mosch Title Partner

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

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

(Instructions on reverse)

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

$ 668.25

Signature [illegible]
(Authorized Certifying Officer)

Date 12-16-55 Vou. No. DMA-56-51

(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. 8810 in accordance with the terms of the contract.

Signature R. L. Bohner, $668.25 Title Mining Engineer Date DEC - 7 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE

Signature R. M. Hawkinson Title Acting Executive Officer Date DEC 9 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
DEC 22 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 195 5 Docket No. DMEA 346 Contract No. [illegible]
Operator's Name Hans Mosch, and Alvin Mosch Minerals Tungsten
Address 527 Dover St. Arvada Colorado

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 *	feet	$891.00	33	$1917.00	71	$27.00	152	$27.00
Crosscutting								
Raising								
Shafts *	feet	50.00	0	$4400.00	50	$88.00	60	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	each	50.00	0	$4.00	1	$4.00	24	$4.00
TOTAL DISTRIBUTED COSTS		$891.00		$5321.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$891.00		$5321.00				$6200.00

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

Date Dec. 2, 1955 Operator Hans Mosch, Alvin Mosch

Per Alvin Mosch Title Partner

REMARKS: Contract work for the month of Nov. commenced Nov. 1, 1955.

→ 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)

R. L. Bolmer

INSTRUCTIONS

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

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

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

GPO 872894

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DEC 22 1955

NARRATIVE REPORT
(Month Of November)

Docket No. DMEA-3546
Contract No. IDM-E810

Contract work for the month of November consisted of drifting thirty-three feet south-westerly on the one-hundered and four foot level of the Big Cameron shaft. This work extended the present drift to an overall length of seventy-one feet. Some timbering was done to prevent caving of rock in bad portions of the drift. Country rock is about the same as previously reported aside from being somewhat more granitic. Vein matter changed into a combination of soapy talc, quartz impregnated with iron, and a highly oxidized gouge laying adjacent to the former.

Several rounds of drifting were performed in supplement to the contract work. These rounds were driven North-Easterly from the Big Cameron Shaft. In addition to actuall mining, a heavier duty high pressure air line was installed in the Big Cameron Shaft.

Hans Mosch
Hans Mosch (Partner)

Alvin Mosch
Alvin Mosch (Partner)

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

400

224 New Customhouse
Denver 2, Colorado

November 17, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3546 (Tungsten), Contract Idm-1810, Mesch and Mesch, Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report, Forms MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of October, 1955.

W. M. Traver

By J. W. Townsend

Enclosures
JWT:gel
cc: MF-104 1810
Mesch (2)
Chron.

MF 104
108

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

RECEIVED NOV 8 1955

224 New Customhouse
Denver 2, Colorado

November 10, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546, (Tungsten) Contract Idm-E810, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado. Operator's Monthly Progress Report, for the period October, 1955

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks

Date of Report- - - - - - - - - - - - - - - November 1, 1955
Date Received in Field Office- - - - - - November 3, 1955
Date Received in Region Office- - - - - November 8, 1955

W. M. Traver

By J. W. Townsend

Enclosures
JDC:jy
cc: MF-104 File E810
Sec. Op. Comm. (2)
Shaw (2)
Chron.

NOV 21 1955

REGION III

Memorandum

Building 20
Denver Federal Center
Denver 2, Colorado
November 7, 1955

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: R. L. Belmer

Subject: DMEA 3546, Contract Idm-M810 (Tungsten), Mosch and Mosch (Big Cameron mine), Boulder County, Colorado
Progress report for October 1955

The progress reported this period under the subject short form contract--28 feet of combined crosscutting to and drifting southwesterly along the Steel Plate vein on the 104-foot level of the Big Cameron shaft--was verified during an inspection of the property November 1, 1955.

The Steel Plate vein flattened at a depth of about 90 feet and the bottom 14 feet of the Big Cameron shaft was sunk in the more consolidated rock in the footwall of that structure. The authorized 104-foot level heading was driven northwesterly from the shaft as a crosscut to intersect the vein. The Steel Plate vein was intersected at a distance of about 11 feet from the shaft and the heading, thereupon, was continued southwesterly as a drift along that structure (see attached sketch).

On the date of inspection, a total of 38 feet of combined crosscutting and drifting had been completed on the 104-foot level west of the shaft. The initial 10 feet of crosscutting from the shaft was completed and reported by the Operator last period. The 28 feet of advance reported by the Operator for the October period, therefore, is valid and proper.

The section of the Steel Plate vein, that has been exposed to date along the 104-foot level, strikes S. 65° W. and dips 65 degrees to 75 degrees to the northwest. The structure contained only about 1 inch of clay gouge where first intersected on the level. It widened toward the southwest reaching a maximum width of 8 inches midway along the drift. At this location, the vein zone contained clay gouge, altered and brecciated wall rock, and minor amounts of horn quartz.

In the present breast of the heading, the zone is 4 to 6 inches wide. Both the foot and hanging walls of the structure are a rather soft, biotite-schist. No tungsten mineralization was observed along its exposed length.

The $756.00 total costs reported for the period on the Operator's MF-104 forms--equivalent to the completed 26 feet of combined crosscutting and drifting at the agreed upon unit price of $27.00 per foot--are approved. Reimbursement to the Operator of 75 percent of the approved reported costs, or $567.00, is recommended.

R. L. Bulmer
Mining Engineer

RLB:ph

cc 6
Idm-MSlo
Chron.

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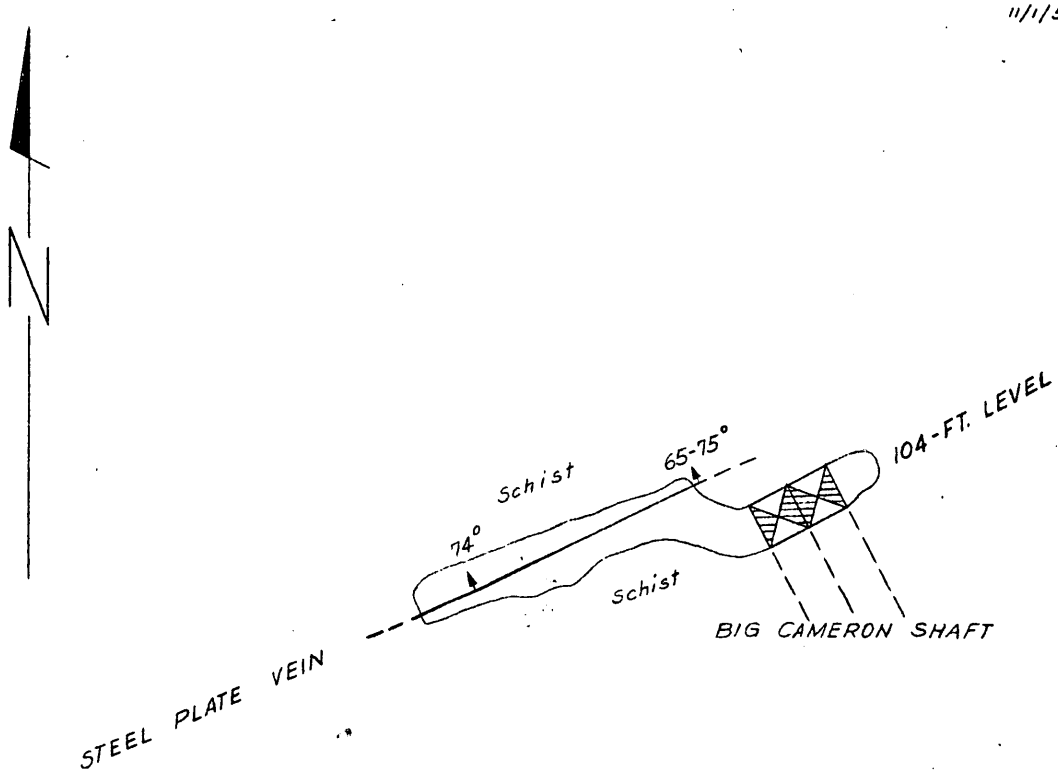
NOV 21 1955

R. L. Bolmer
11/1/55



PLAN OF 104-FT. LEVEL
BIG CAMERON MINE BOULDER COUNTY, COLO.

Mosch and Mosch DMEA 3546 (Tungsten) Contract Idm-E810

Form MF-10[illegible]
(April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED NOV 21 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 195 5 Docket No. DMEA 3546 Contract No. IDM-E8IO

Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten

Address 5275 Dover St. Arvada Colo.

Contract Amount, $ 8280.00 Government Participation: 75 % Amount, $ 6210.00

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~~ Drifting	$756.00	$270.00	$1026.00			
~~Bulkhead~~ Sampling	0.00	$4.00	$4.00			
~~Crosscut~~ Bulkheading	0.00	$3400.00	$3400.00			
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$756.00	$3674.00	$4430.00			

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

Date Nov. 1, 1955 *Payee Hans Mosch, Alvin Mosch

Per Alvin Mosch Title Partner

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

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

(Instructions on reverse)

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

$ 567.00

Signature [illegible]
(Authorized Certifying Officer)

Date 11-15-55 Vou. No. DMA-5643

(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 810 in accordance with the terms of the contract.

Signature R. R. Bolmer, $567.00 Title Mining Engineer Date NOV - 7 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature for Wm. Tower Title Executive Officer Date NOV 10 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED NOV 21

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 195 5 Docket No. DMEA 3546 Contract No. DMA-8010
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Dover St. Arvada Colorado

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	feet	$756.00	28	$1026.00	38	$27.00	152	$27.00
Crosscutting								
Raising								
Shafts	feet	0.00	0	$3400.00	50	$68.00	60	68.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	each	0.00	0	$4.00	1	$4.00	24	$4.00
TOTAL DISTRIBUTED COSTS		$756.00		$4430.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$756.00		$4430.00				$8280.00

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

REMARKS: Contract work for the month of Oct. commenced Oct. 1, 1955.

Date Nov. 1, 1955 Operator Hans Mosch, Alvin Mosch

Per Alvin Mosch Title Partner

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

(Instructions on reverse)

(For Government use only)

R. L. Bolmer

INSTRUCTIONS

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

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

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

GPO 872894

RECEIVED
NOV 21 1955

R.R.B.

NARRATIVE REPORT
(Month Of October)

Docket No. DMEA-3546
Contract No. IDM-E8IO

Work performed for the month of October consisted of correcting troubles which had caused equipment failure, of drifting South Westerly on the Big Cameron vein for a distance of twenty eight feet, and of timbering the collar of this drift.

The drift was directed into the hanging wall for reasons described in Narrative Report for the month of September. The vein was opened up about ten or fifteen feet from the Big Cameron Shaft and is being followed by our partnership. When first intercepted, the vein was of negligible width. Several rounds of drifting have opened it up to a width of eight inches. The present width of the vein on the South West breast of the drift is about six inches. Country rock on both walls of the vein appears to be a rather hard Schist. During the drifting some aplite was opened up on the foot wall side of the vein.

Hans Mosch
Hans Mosch(Partner)

Alvin Mosch
Alvin Mosch (Partner)

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

400

RECEIVED
OCT 31 1955

224 New Customhouse
Denver 2, Colorado

October 28, 1955

WSAJ

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546 (Tungsten) Contract Idm-2610, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report, Forms MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of September, 1955.

W. M. Trainer

By J. W. Townsend
J. W. Townsend

Encls.

MF-104's
Sept

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

RECEIVED
OCT 31 1955

October 17, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546 (Tungsten), Contract Idm-E810, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado - Operator's Monthly Progress Report, for the period September, 1955

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

REMARKS

Date of Report----------October 1, 1955
Date Received in Field Office----------October 5, 1955
Date Received in Region Office----------October 7, 1955

W. M. Traver

Enclosures

JC:ab
cc: MF-104 File E810
See. Op. Comm. (2)
Shaw (2)
Chren.

DMEA
Date Rec'd.

OCT 7 1955

BUREAU OF MINES
Denver, Colorado

Building 20
Denver Federal Center
Denver 2, Colorado
October 7, 1955

REGION III

Memorandum

RECEIVED
OCT 31 1955

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: R. L. Bolmer

Subject: DMEA 3546, Contract I4m-M10 (Tungsten),
Moench and Moench (Big Cameron mine),
Boulder County, Colo. - Progress report
for September 1955

The progress reported this period under the subject short form contract--sinking the Big Cameron shaft an additional 13 feet and drifting 10 feet northwesterly from the bottom of the shaft--was verified during an inspection of the property October 4, 1955.

On the date of inspection, the Big Cameron shaft had been sunk to a depth of 104 feet below a previously established reference point at its collar. Shaft timbers had been installed to a depth of approximately 92 feet. The existing depth of the shaft at the start of contract work was 54 feet. The shaft was extended 37 feet under the contract, to a depth of 91 feet, during July and August. The operator previously has reported and been reimbursed for project work completed during these months. The additional 13 feet of sinking, which the operator reports for the September period, therefore, is valid and proper.

Drifting 152 feet southwesterly from the shaft on the 104-foot level, 10 feet of which was completed during September, is authorized under the contract. The contract also authorizes a total of 60 feet of shaft sinking to the 114-foot level. The shaft is making moderate amounts of water and the final 10 feet of authorized sinking probably will be needed to provide for a sump below the 104-foot level. It will be completed after the 104-foot level has been advanced a sufficient distance away from the shaft.

The headings driven this period remained in schist. The Steel Plate vein flattened at a depth of about 90 feet and the bottom 14 feet of the shaft was sunk in the more consolidated and harder rock in the footwall of the structure. The 104-foot level was angled northwesterly from the shaft as a crosscut to intersect the vein. On the date of inspection, the level had not been advanced far enough in this direction to cut the vein.

The $1,154.00 total costs reported for the period on the operator's MP-104 form--equivalent to 13 feet of shaft sinking and 10 feet of drifting at the agreed upon unit prices of $68.00 and $27.00 per foot respectively--are approved. Reimbursement to the operator of 75 percent of the approved reported costs, or $865.50, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB:ph

cc 6
Idm-MS10
Chron

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

Budget Bureau No. 42-R1036.5

RECEIVED
OCT 31 1955

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

Month of September 1955 Docket No. DMEA 3546 Contract No. IDM-E8IO
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Dover St. Arvada Colo.
Contract Amount, $ 8280.00 Government Participation: 75% Amount, $ 6210.00

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~~ drifting	$270.00	$0.00	$270.00			
~~xxxxxx~~ assaying	$0.00	$4.00	$4.00			
~~xxxxxx~~ sinking	$884.00	$2516.00	$3400.00			
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1154.00	$2520.00	$3674.00	1154.00	2520.00	3674.00

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

Date Oct. 1, 1955 Payee Hans Mosch, Alvin Mosch

Per Alvin Mosch Title Partner

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

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

(Instructions on reverse)

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

$ 865.50

Signature RRC
(Authorized Certifying Officer)

Date 10/25/55 Vou. No. DMA-56-52

(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 810 in accordance with the terms of the contract.

Signature R. P. Bolmer #865.50 Title Mining Engineer Date OCT - 7 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. James Title Executive Officer Date OCT 17 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
OCT 31 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1955 Docket No. DMEA 3546 Contract No. Ion-2810
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Dover St. Arvada Colo.

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	feet	$270.00	10	$270.00	10	$27.00	152	$27.00
Crosscutting								
Raising								
Shafts	feet	$884.00	13	$3400.00	50	$68.00	60	$68.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying	each	$0.00		$4.00	1	$4.00	24	$4.00
TOTAL DISTRIBUTED COSTS		$1154.00		$3674.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1154.00		$3674.00				$8280.00

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

REMARKS: Contract work for the month of Sept. commenced Sept. 1, 1955.

Date Oct. 1, 1955 Operator Hans Mosch, Alvin Mosch
Alvin Mosch
Per Alvin Mosch Title Partner

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

(Instructions on reverse)

(For Government use only)

R. L. Bolmer

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

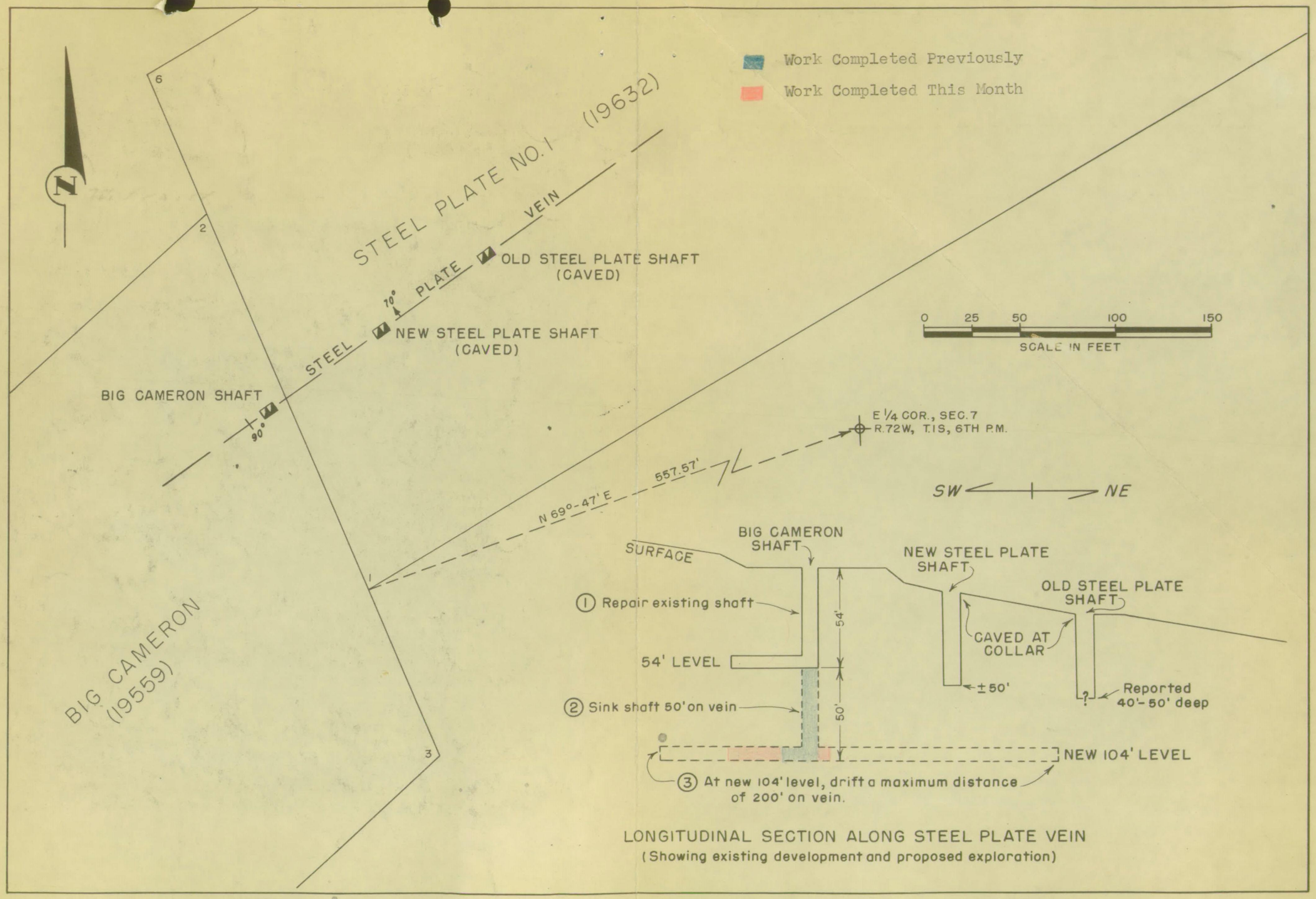


FIGURE 3-PLAN AND SECTION OF BIG CAMERON MINE, BOULDER COUNTY, COLO. (DMEA 3546)

RECEIVED
NOV 21 1955

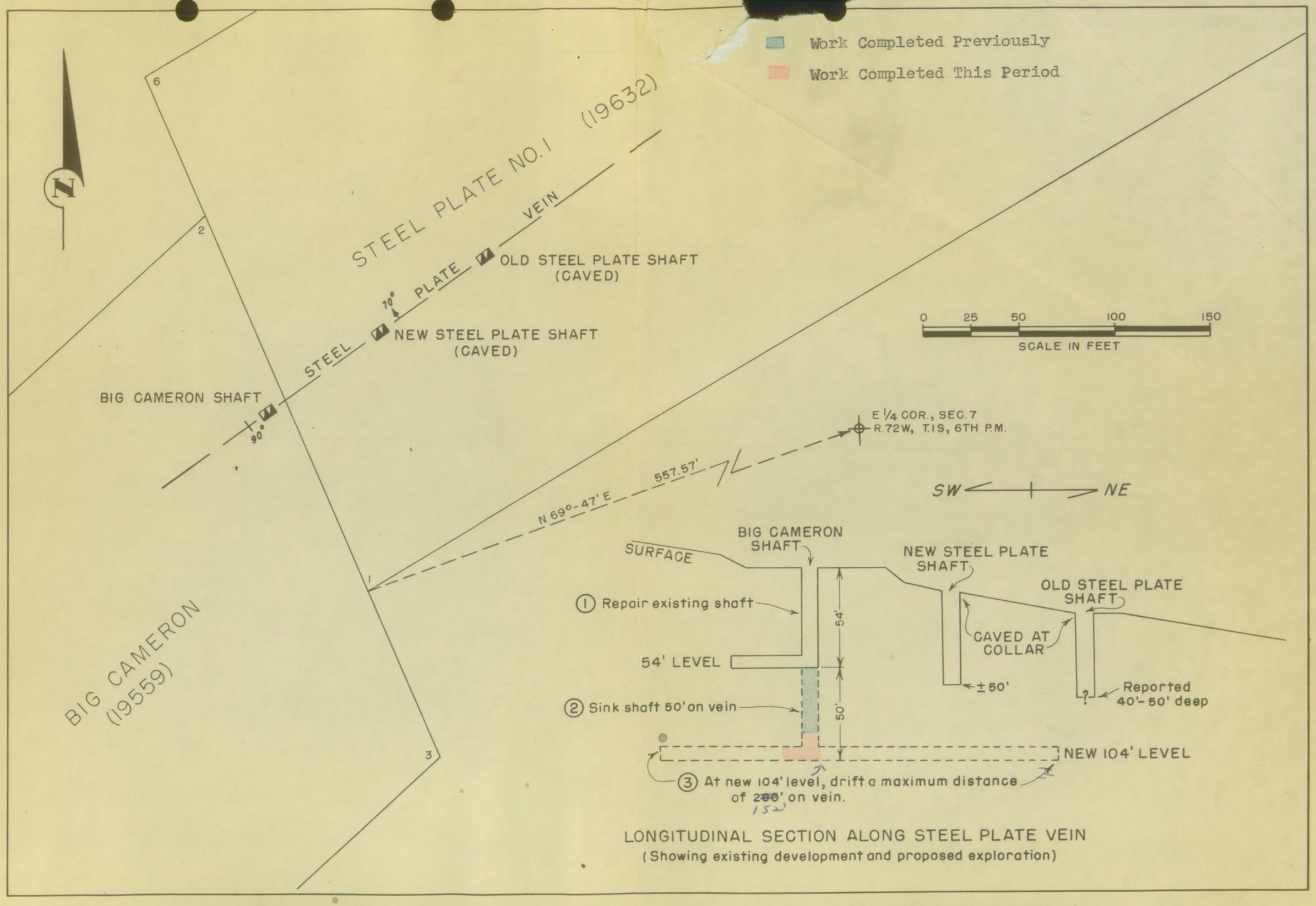


FIGURE 3-PLAN AND SECTION OF BIG CAMERON MINE, BOULDER COUNTY, COLO. (DMEA 3546)

RECEIVED
OCT 3 1 1955

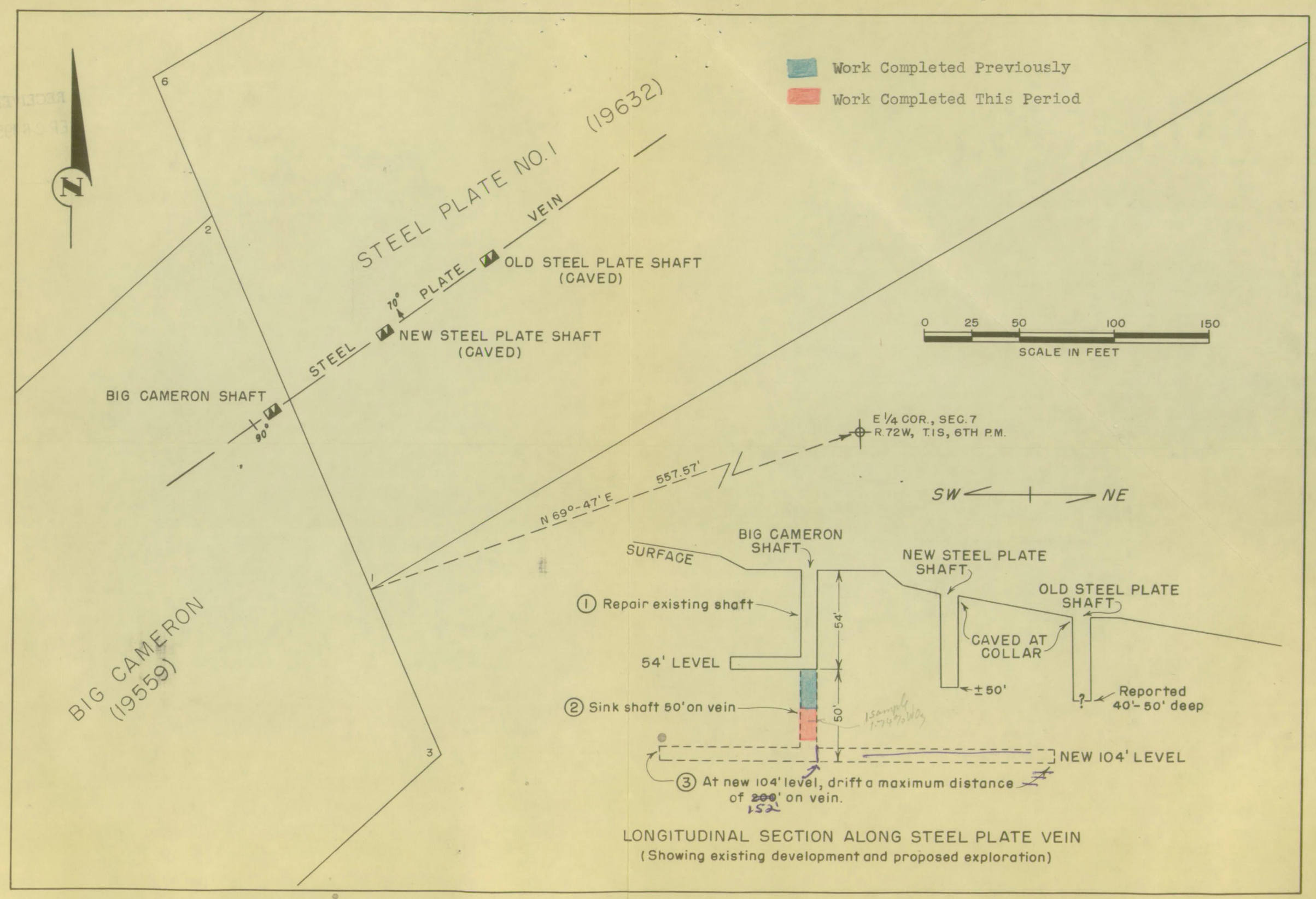


FIGURE 3- PLAN AND SECTION OF BIG CAMERON MINE, BOULDER COUNTY, COLO. (DMEA 3546)

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SEP 2 6 1955

NARRATIVE REPORT

(Month of September 1955)

RECEIVED
OCT 3 1 1955

Docket No. DMT-3046
Contract No. IMT-3010

Work performed during the month of September consisted of sinking the Big Cameron Shaft to a depth of one hundred and four feet, and drifting South Westerly ten feet. Subsequent to the flattening out of the vein as previously reported, we departed from it by continuing to sink the Big Cameron shaft in a vertical manner. This was done for the sake of having a better shaft to work through. The drift was driven with an inclination into the hanging wall to enable us to relocate and follow the vein as we drift.

The remaining portion of the shaft as extended from the ninety one foot depth was sunk through rock consisting of gneissic granite and sills of oxidized quartz. In the lower portion of the shaft we encountered an abundance of aplite. Upon contact with the quart sills, seepage water increased. For several weeks it was necessary to bail out over one thousand gallons of water per day. Towards the end of our present sinking the seepage diminished to a negligible amount.

Hans Mosch
Hans Mosch (Partner)

Alvin Mosch
Alvin Mosch (Partner)

400

RECEIVED
SEP 26 1955

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

224 New Customhouse
Denver 2, Colorado

September 21, 1955

Memorandum

WSM

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546, (Tungsten), Contract Idm-E810, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado. -

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the period August, 1955.

W. M. Traver

Enclosures

August
MF-104

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

RECEIVED
SEP 26 1955

224 New Customhouse
Denver 2, Colorado

September 12, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546, (Tungsten), Contract Idm-E810, Mosch and Mosch, Big Cameron Mine, Boulder County, Colorado - Operator's Monthly Progress Report, for the period August, 1955.

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on Form MF-200A, therefore, we recommend that payment be made for 75 percent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks
Date of Report- - - - - - - - - - - - - - - - - - September 1, 1955
Date Received in Field Office- - - - - - - - - - September 2, 1955
Date Received in Region Office- - - - - - - - - September 9, 1955

W. M. Traver
W. M. Traver

Enclosures

JDC:jy

cc: MF-104 File E810
Sec. Op. Comm. (2)
Shaw (2)
Chron.

RECEIVED

SEP 26 1955

Building 20
Denver Federal Center
Denver 2, Colorado
September 8, 1955

DMEA
Date Rec'd.

Region III

SEP 9 1955

BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: E. L. Palmer

Subject: DMEA 3546, Contract Ldm-2610 (Tungsten), Munch and Munch (Big Cameron mine), Boulder County, Colorado -- Progress report for August, 1955

The progress reported this period under the subject short form contract -- the extension of the Big Cameron shaft for a distance of 17 feet along the Steel Plate vein -- was verified during an inspection of the property September 7, 1955.

On the date of inspection, the Big Cameron shaft had been sunk to a depth of 91 feet below a previously established reference point at the collar of the shaft. Shaft timbers had been installed to a depth of approximately 80 feet.

The existing depth of the shaft at the start of contract work on July 7, 1955 was 54 feet. The shaft was sunk 20 feet to a total depth of 74 feet during the month of July. The operator previously has reported and been reimbursed for the July advance. The additional 17 feet of sinking that the operator reports for the month of August, therefore, is valid and proper.

The conditions encountered during the month are reported adequately in the operator's narrative. The Steel Plate vein has continued in schist to the present depth of the shaft. In the bottom of the shaft the poorly defined vein zone contains from 6 to 10 inches of rusty quartz and brecciated wall rock. The structure appears to flatten with increased depth toward the northwest.

The sections of the vein that presently are exposed in the lower untimbered portions of the shaft contain no visible tungsten mineral. One sample of the vein, which was taken by the operator at a depth of about 80 feet and presently is hidden behind the lagging, reportedly assayed 1.74 percent WO_3.

The formation in the bottom 10 feet of the shaft has started to make a small quantity of water and has necessitated some bailing during each shift. The wall rock at this depth is quite wet and does not stand well without timber support.

The work, which the operator reports for the August period, was performed according to the specifications stipulated in the contract. The $1,160.00 total costs reported on the operator's MF-10b form for the period -- equivalent to 17 feet of shaft sinking at the agreed unit price of $68.00 per foot plus the analysis of one sample at the stipulated price of $4.00 -- are approved. Reimbursement to the operator of 75 percent of the approved costs, or $870.00, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB:jw

cc: 6
MHO
Chrom.

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
SEP 26 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 195 55 Docket No. DMEA 356 Contract No. IDL-810
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Dover St. Arvada Colo.
Contract Amount, $ 8280.00 Government Participation: 75 % Amount, $ 6210.00

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						
Blasting Hoisting	$4.00	$0.00	$4.00			
Crosscutting						
Drifting						
Winding	$1156.00	$1360.00	$2516.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1160.00	$1360.00	$2520.00			

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

Date Sept. 1, 1955 Payee Hans Mosch, Alvin Mosch

Per Alvin Mosch Title Partner

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

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

(Instructions on reverse)

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

$ 870.00

Signature RRA
(Authorized Certifying Officer)

Date 9-13-55 Vou. No. DMA-56-27
(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. E810 in accordance with the terms of the contract.

Signature R. L. Bolmer $87.00 w/o RS for Title Mining Engineer Date SEP - 8 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Inman Title Executive Officer Date SEP 12 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
SEP 26 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1955 Docket No. DMEA 396 Contract No. [illegible]
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Dover St., Arvada Colo.

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	feet	—	—	—	—	—	152	$27.00
Crosscutting								
Raising								
Shafts	feet	$1156.00	17	$2716.00	37	$68.00	60	$68.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assays	each	$4.00	1	$4.00	1	$4.00	2	$4.00
Total Distributed Costs		$1160.00		$2520.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$1160.00		$2520.00				$8280.00

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

Date Sept. 2 1955 Operator Hans Mosch, Alvin Mosch

Per Alvin Mosch Title Partner

Alvin Mosch

Remarks: Contract work for the month of August commenced August 8, 1955. August 1 through 6 spent completing repairs on pre-existing shaft section.

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)

R. L. Bolmer

INSTRUCTIONS

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

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

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

GPO 872894

RECEIVED
SEP 26 1955

NARRATIVE REPORT

(Month of August 1955)

Docket No.DMEA-3546

Contract No.IDM-E8I0

Work performed in the first week of August consisted of concluding repairs in the pre-existing portion of the Big Cameron Shaft, installing I00 feet of eight inch ventilation pipe, installing a I/2 inch water line for a gravity water system of drilling, and in reconditioning faulty tools and equipment. Such work is now completed and little more than ordinary maintenance need be required in the future.

Contract work commenced August 8, I955, for the month of August, and consisted of sinking the Big Cameron Shaft to a depth of 9I feet. The method of square set timbering with the hanging and footwall sides being lagged is proceeding to be used. We encountered water at a depth of eighty feet. Increased depth is now resulting in increased water seepage.

The mineralized vein is rolling under the hanging wall. Some tungsten ore assaying tungsten oxide(WO_3) I.74% was exposed at a depth of about eighty feet. The country rock on the footwall side of the vein is changing from a schist to a highly oxidized white quartz.

1 Sample assay 1.74% WO3

Hans Mosch (pardner)

Alvin Mosch (pardner)

UNITED STATES DEPARTMENT OF THE INTERIOR

402

224 New Customhouse
Denver 2, Colorado

August 18, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3546 (Tungsten), Contract Idm-E810, Mosch & Mosch, (Big Cameron mine), Boulder County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF 104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of July, 1955.

W. M. TRAVER,

W. M. Traver

Enclosures

jy

cc: MF-104 File E810
Shaw (2)
Chron

RECEIVED
AUG 1955

MF-104
Order

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

224 New Customhouse
Denver 2, Colorado

August 9, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3546 (Tungsten), Contract Idm-E810, Mosch & Mosch, (Big Cameron mine), Boulder County, Colorado - Operator's Monthly Progress Report for the month of July, 1955

Enclosed are the original and four copies of form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. No documentation is required for work performed under contracts prepared on form MF-200A, therefore we recommend that payment be made for 75 percent of the amount reported by the Operator on form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks:

Date of Report . . . . . August 1, 1955
Date Received in Field Office. . . . August 2, 1955
Date Received in Region Office . . . August 8, 1955

W. M. Traver

W. M. Traver

Enclosures

JDC:sr

cc Subject
Sec. Op. Comm. (2)
Shaw (2)
Chron

DMEA
Date Rec'd.
AUG 8 1955
BUREAU OF MINES
Denver, Colorado

Building 20
Denver Federal Center
Denver 2, Colorado
August 8, 1955

Region III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw
Supervising Mining Engineer

From: R. L. Balmer

Subject: DMEA 3546, Contract Idm-2709 (Tungsten), Mesch and Mesch (Big Cameron mine), Boulder County, Colorado -- Progress report for July, 1955

The progress reported this period under the subject short form contract - 20 feet of shaft sinking - was verified during an inspection of the property August 1, 1955.

Project work at the property commenced July 7, 1955. The existing depth of the Big Cameron shaft on that date measured 54.0 feet below a surface reference point (spike in timbers of shaft collar) established by the inspecting engineer. The initial preparation work subsequent to the starting date involved the rehabilitation and repair of the existing shaft. New ladders and platforms were installed for the full length of the manway compartment and certain sections of both the manway and hoisting compartments were lagged. Actual extension of the shaft, as authorized under the contract, started during the latter half of the month. The shaft had been sunk for a distance of 20 feet along the Steel Plate vein, or to a total depth of 74.0 feet below the surface reference point, by the date of the latest inspection.

The shaft extension was excavated to an 8-by 4-foot cross section inside the shaft timbers as stipulated in the contract. Shaft timbers were carried as close to the face of the heading as was feasible.

The Steel Plate vein exposed during the period continued nearly vertical within a wall rock of soft biotite-schist. The structure itself was about one foot wide and was composed of barren quartz, gouge, and brecciated wall rock. Tungsten mineralization was not observed along this section of the structure.

The $1,360.00 total costs reported for the period on the operator's MF-104 forms - equivalent to the completed 20 feet of sinking at the agreed upon unit price of $68.00 per foot - are accepted. Reimbursement to the operator of 75 percent of the accepted amount, or $1,020.00, is recommended. Payment should be mailed to 5275 Rover Street, Arvada, Colorado.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB:jv

cc: 6 ✓
R769
Chron.

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

Budget Bureau No. 42-R1036.5

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

Month of July, 1955 Docket No. DMEA 3946 Contract No. IDM-E8IO
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Dover St. Arvada Colo.
Contract Amount, $ 8280.00 Government Participation: 75 % Amount, $ 6210.00

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:						
~~Drifting~~						
~~Bassaying~~						
Crosscutting						
Drifting						
Sinking	$1360.00	$0.00	$1360.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1360.00	$0.00	$1360.00			

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

Date Aug. 1, 1955 Payee Hans Mosch, Alvin Mosch
Hans Mosch Alvin Mosch

Per Alvin Mosch Title Partner

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

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

(Instructions on reverse)

RECEIVED AUG 22 1955

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

$ 1,020.00

Signature [illegible]
(Authorized Certifying Officer)

Date 8/11/55 Vou. No. DMA-56-14

(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 810 in accordance with the terms of the contract.

Signature: R. L. Holmes, $1,020.00 Title Mining Engineer Date Aug. 4, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Traver Title Executive Officer Date AUG - 9 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1955 Docket No. DMEA 3546 Contract No. DMEA 510
Operator's Name Hans Mosch and Alvin Mosch Minerals Tungsten
Address 5275 Dover St., Arvada Colo.

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	feet	—	—	—	—	—	152	$27.00
Crosscutting								
Raising								
Shafts	feet	$1360.00	20	$1360.00	20	$68.00	60	$68.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assays	each	—	—	—	—	—	24	$4.00
TOTAL DISTRIBUTED COSTS		$1360.00		$1360.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1360.00		$1360.00				$8280.00

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

Date Aug 1 1955 Operator Hans Mosch, Alvin Mosch
Hans Mosch
Per Alvin Mosch Title Partner
Alvin Mosch

REMARKS: Contract sinking commenced July 7, 1955 at a depth of 34 feet in the Big Cameron shaft.

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)
H. L. Palmer

INSTRUCTIONS

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

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

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

GPO 872894

NARRATIVE REPORT
(for month of July 7-31, 1955

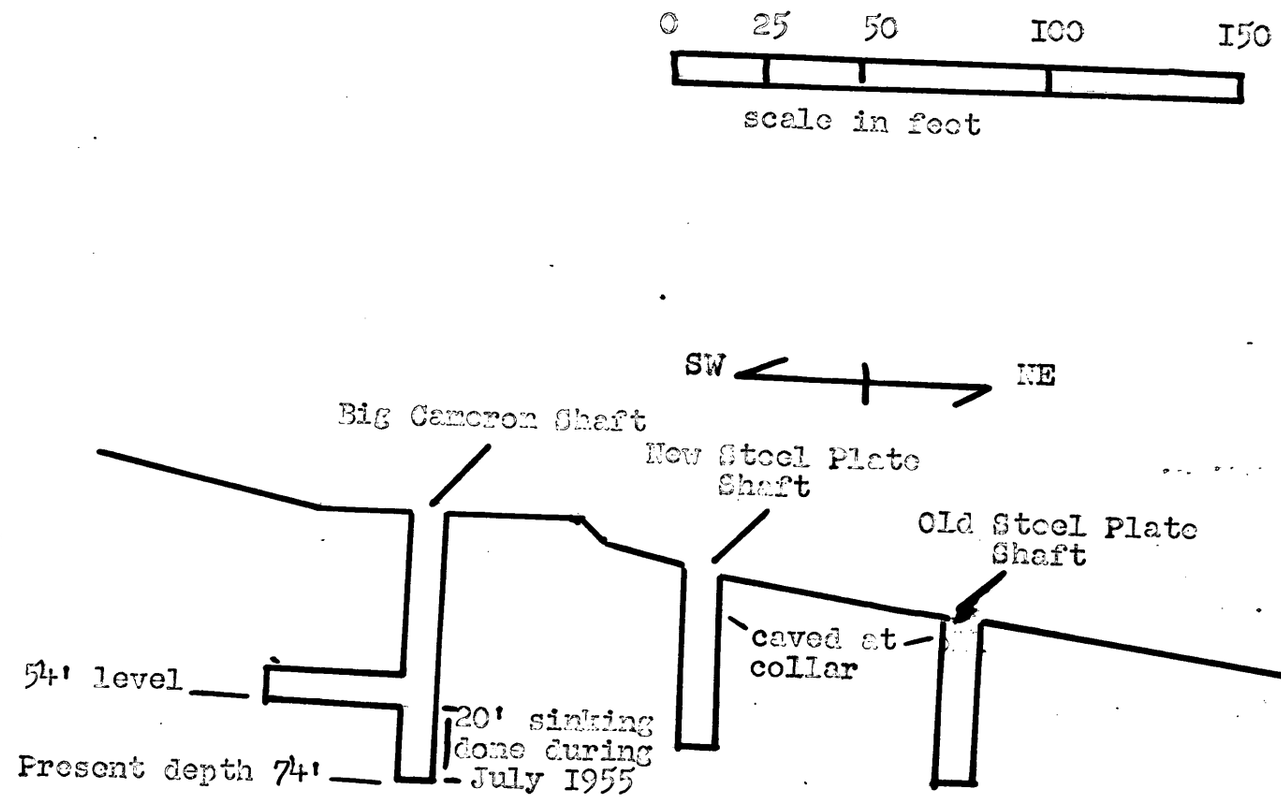
Contract No. [illegible]
Docket No. DMRA 3546

Contract work on the Big Cameron shaft commenced July 7, 1955. The earlier portion of the July month consisted of repairing the existing fifty-four feet of the Big Cameron shaft. Old ladders were removed and replaced by new ones. We found it necessary to lag in all open sections of the square sections along the foot wall. The surface waters seeping throughout the schist had caused it to slack and become dangerously loose. More work is yet required in this portion of the shaft, and will be performed during the first week of August.

During the latter part of July, an additional twenty feet of shaft was sunk. This lowered the depth to Seventy-four feet from the surface. Schist persisted to this depth. The mineralized vein has increased in width. Though the vein has pitched vertical from the surface, it now appears to be rolling under the hanging wall. Traces of tungsten were found in the hanging wall abreast of the actual vein. Square set timbering is continuing to be done, and the hanging and foot-wall sides are being heavily reenforced with lagging.

Alvin Mosch
Hans Mosch

RHB



LONGITUDINAL SECTION ALONG STEEL PLATE VEIN
(showing existing development work as of
August 1, 1955)

JUL - 3 1956

Messrs. Rene Meech and
Alvin Meech
5275 Dover Street
Arvada, Colorado

Re: Docket No. DMEA 3546 - Tungsten
Big Generous Mine
Boulder County, Colorado
Contract No. [illegible]

Gentlemen:

This is with reference to the subject exploration contract between Rene Meech and Alvin Meech, partners, and the Government.

It is not our intention to issue a certification of discovery or development which would create a lien against the subject property. We are, therefore, closing our books and records with respect to this project. Your attention is called, however, to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

We regret that the exploration work performed did not result in a discovery or development. Your participation in the exploration program, however, is sincerely appreciated.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

SPMolt:fcc
7/31/56
cc to: Docket
Code 400
Code 800
Admr. Read. File
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Millegaard, USGS

Hetzer Mines, Inc.

NOV 8 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: General Summary of Contract and Results Obtained
Docket No. DMEA 3546 - Tungsten
Meech and Meech
Big Cameron Mine
Boulder County, Colorado
Contract No. 14n-[illegible]

Operator: Hans and Alvin Meech, partners, 5975 Dover Street, Arvada, Colorado

Operator's Property Rights:
The Operator controls, by lease from the owner, Meteor Mines, Inc., three patented lode mining claims, situated in sec. 7, T. 1 S., R. 72 W., 6th P. M., Boulder County, Colorado, as follows:

Claim Name	U. S. Survey No.
Big Cameron	1959
Fraction	1972
Jack	1846

Contract: Executed June 6, 1955; work to commence on or before July 15, 1955, and to be completed on or before January 1, 1956.

(a) Work authorized:

Sink two-compartment shaft, 60 feet @ $68.09/ft.	$4,080.00
Drift 152 feet @ $27.00/ft.	4,104.00
Assay 24 samples for WO_3 @ $4.00/each	96.00
Total estimated	$8,280.00
Government participation @ 75%	$6,210.00

(b) Amendment No. 1, executed December 15, 1955, extended the date of completion of the contract from January 1, 1956 to March 6, 1956.

(c) Work completed under the terms of the contract:

Drifting, 138 feet @ $27.00/ft.	$3,726.00
Shaft sinking, 60 feet @ $68.00/ft.	4,080.00
Assaying, 1 sample for WO_3 @ $4.00/each	4.00
Total approved cost of contract	$7,810.00
Government participation @ 75%	$5,857.50

(d) The contract was terminated by a Termination Agreement, executed April 9, 1956, effective as of February 29, 1956.

Audits:

A review in lieu of final audit was received April 23, 1956.

Reports:

The Operator's Final Report was received on April 5, 1956. The Final Report of the Field Team was received on September 17, 1956.

Comments and Recommendations:

The project was established to explore for tungsten in the Big Cameron mine in the Boulder Tungsten District, Boulder County, Colorado. Project work showed that although the Steel Plate vein continued southwesterly from the Big Cameron shaft, it was only weakly mineralized in the portion of the vein to the southwest of the shaft, both walls of the vein being schist, a rock type found to be generally unfavorable to deposition of tungsten minerals in the Boulder district. The only sample taken by the Operator, cut at about the 80-foot level of the Big Cameron shaft, assayed 1.74 percent WO_3. This ore was very limited in extent and was stoped for only a few feet east of the shaft within the Big Cameron claim. One lot of ore from this source (1.096 tons, average assay 5.79 percent WO_3), was shipped, the net value of which was $212.08, on which a royalty of $10.60 was paid to the Government. Very little mineralization, and no ore other than that noted above, were discovered by project work. In concurrence with the recommendation of the Field Team, this Division recommends that no certification of development be issued, and that the contract be closed by a letter of non-discovery, or "closing letter", to the Operator.

SPHOLF:foc
11/8/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

JUL 31 1956

Ustar Mines, Inc.
Boulder, Colorado

Re: Docket No. TMRA 3546 - Tungsten
Mesch and Mesch
Big Cameron Mine
Boulder County, Colorado
Contract No. [illegible]

Gentlemen:

Reference is made to a certain Owner's Consent to Lien executed by you on June 29, 1955, and to the above-referenced contract.

Enclosed for your information is a copy of a letter to the operator, advising the partnership that it is not our intention to create a lien against the property referred to in the Owner's Consent to Lien and the contract, or the production from said property, as a result of work done under the subject contract.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosure

SRSolt/fcc 7/31/56
cc to: Docket
Code 400
Code 800
Admr. Read. File
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Kilsgaard, USGS

IN REPLY REFER TO:

400

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
OCT 23 1956

October 22, 1956

Re: DMA 3546, Tdm-810
Bosch and Bosch
Big Cameron Mine
Boulder Co., Colorado
$8,280.00 - Tungsten

WSM

Memorandum

To: . . Martin, Defense Minerals Exploration Administration

From: N. . Nelson, U. . Geological Survey

Subject: Review of Field Team Final Report.

The contract authorized the expenditure of $8,280.00 on exploration of the westerly end of the Steel Plate vein, a narrow low grade ferberite-bearing quartz vein by extending a 54-foot shaft and drifting. The examiners and the Field Team had recommended denial of the application.

The operators extended the shaft 60 feet and a crosscut was driven northwesterly to the vein, after which the vein was drifted 138 feet to the southwest. The total expenditure was $7,810.00 of which the government's share was $5,857.00. Without assistance the operator drifted 32 feet to the northeast.

At a depth of about 90 feet in the shaft the operator recovered 1.096 tons of 5.79% WO_3. The net value was $212.08 and the royalty, $10.60, was paid.

The New Steel Plate and Big Cameron shafts and drifts from them indicate the Steel Plate vein in that area averages something less than 0.1% WO_3 and further work is not warranted.

The examiners and the Field Team recommend that no certification be made.

I concur with that recommendation.

N. E. Nelson

NENelson:btr
G 10/22/56
cc: Robert Holliday, 3517
Director's reading file (4212)
Branch reading file
D. . (3)
Chron. file
Docket file

N. . Nelson

400

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Washington 25, D. C.

RECEIVED
SEP 21 1956

Date September 21, 1956

DMEA Docket No. 3546
DMEA Contract No. ICR-2810
Commodity Tungsten
Name of applicant
Name of property Hoach and Hoach (Big Cameron mine)
Location of property Boulder County, Colorado
Estimated cost of project

Memorandum

To: W. S. Martin, Chief, Iron and Ferroalloys Division-DMEA
Through: Harmon T. Rose, Acting Chief, Branch of Ferrous Metals & Ferroalloys

WSM

From: R. W. Holliday, Commodity Specialist, Branch of Ferrous Metals & Ferroalloys

Subject: Review of Final Report
(Application, Field Team Report, etc.)

1. Date of subject document: Aug 31, 56 2. Date received by reviewer: Sept. 13, '56.
3. Prior reports on this property known to reviewer: Yes [X], No [ ].
4. Prior reports on nearby properties known to reviewer: Yes [X], No [ ].
5. Information available on past production: Yes [X], No [ ].
6. Other pertinent factors known to reviewer: Yes [X], No [ ].
7. Explain items marked yes above:

Prior reports summarized in subject report.

8. Factors needing special consideration:
   a. Location [ ]
   b. Ownership [ ]
   c. Evidence of mineralization [ ]
   d. Geology [ ]
   e. Proposed exploration method [ ]
   f. Alternate exploration method [ ]
   g. Costs [ ]
   h. None [X]

9. Action advised:
   a. Obtain information from applicant [ ]
   b. Refer to Field Team [ ]
   c. Denial [X]
   d. Agree with Field Team [X]
   e. Disagree with Field Team [ ]
   f. Suggest alternate plan [ ]
   g. Request another examination [ ]
   h. Approval [ ]
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary)

R. W. Holliday

400

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

RECEIVED
SEP 17 1956

224 New Customhouse
Denver 2, Colorado

September 13, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 3546 (Tungsten), Contract Idm-E810, Mosch and Mosch (Big Cameron mine), Boulder County, Colorado - FINAL REPORT.

Enclosed are the original and three copies of a joint engineering and geologic report, dated August 31, 1956, from R. L. Bolmer, Mining Engineer, Bureau of Mines, and D. K. Maclaren, Geologist, Geological Survey, and transmittal thereof, dated September 12, 1956, from E. H. Harshman, Member of the Field Team, and John F. Shaw, Supervising Engineer. The original and one copy of the Operator's final report were forwarded to you by memorandum dated April 20, 1956.

Final payment to the Operator was processed by this office April 20, 1956 in conformance with the Report of Review of contract expenditures by the Contract Administration and Audit Division, dated April 20, 1956.

Exploration work completed comprised 54 feet of rehabilitation of the Big Cameron shaft, 50 feet of sinking the shaft to the 104-feet level, and drifting on the vein on that level 138 feet southwest from the shaft, at a total accepted cost of $7,810.00, of which the Government contributed 75%, or $5,857.50.

The project work did not result in the discovery of significant reserves of tungsten ore, and accordingly no Certification of Discovery or Development is recommended.

DMEA Field Team, Region III

By W. M. Traver
W. M. Traver
Executive Officer

Final G.S. Report

9-21-56

RECEIVED
SEP 17 1956

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
September 12, 1956

Memorandum

DMEA
DEPARTMENT OF THE INTERIOR
SEP 12 1956
REGION III
DENVER, COLORADO

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman
John F. Shaw

Subject: Docket DMEA 3546 (Tungsten) Exploration Project Contract Idm-E810, Big Cameron Mine (Hans Mosch and Alvin Mosch) Boulder County, Colorado

Enclosed are the original and seven copies of the Joint Final Engineering and Geologic Report by R. L. Bolmer, mining engineer and D. R. MacLaren, geologist covering the work performed under Contract Idm-E810.

Exploration Contract Idm-E810 between the Government and Hans Mosch and Alvin Mosch authorized sinking the Big Cameron shaft 60 feet and drifting 152 feet southwesterly along the Steel Plate vein on a new 104-feet level. The estimated total cost of the project was $8,280.00.

The operator sank the shaft the required distance and drifted 138 feet southwesterly along the Steel Plate vein. The completion of the remaining 14 feet of drifting, authorized under the contract, is not warranted and the operator requested cancellation of the contract. The Government concurred with the operator that no further work should be performed. The contract was terminated by mutual consent.

The accepted cost of the project totaled $7,810.00. The amount of Government participation was $5,857.50. The project did not result in the discovery of significant reserves of tungsten and certification by the Government is not recommended.

E. N. Harshman

E. N. Harshman
Member Field Team

DMEA Office Contract
9-21-56
(date)

John F. Shaw

John F. Shaw
Supervising Mining Engineer

JFS:sh

cc: EHHarshman
Idm-E810
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

RECEIVED
SEP 17 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3546, Exploration Project Contract Idm-E810

Big Cameron Mine

Hans Mosch and Alvin Mosch

Boulder County, Colorado

Tungsten

Final Report of Project Operations

by

R. L. Bolmer, Mining Engineer
Bureau of Mines

D. R. MacLaren, Geologist
Geological Survey

August 31, 1956

Reviewed by
DMEA OPERATING COMMITTEE
9-21-56
(date)

CONTENTS

Introduction and Summary..... 1

Location of the Property. 4

Operator's Property Rights. 4

History and Production. 5

Geology. 6

Project Operations 8

Description of work completed 8

Cost of the project.. 11

Project equipment. 11

Efficiency of operations 12

Conclusions and Recommendations. 12

ILLUSTRATIONS

Figure		Follows Page
1.	Index map of the Boulder County tungsten district, Colorado, showing location of Big Cameron mine.	4
2.	Claim map, Big Cameron mine, Boulder County, Colo.	5
3.	Composite plan showing geology on surface and 104-foot level, and vertical projection along Steel Plate vein, Big Cameron mine, Boulder County, Colorado.	6
4.	Plan of 104-foot level, Big Cameron mine, Boulder County, Colorado showing drifting done under Contract Idm-E810.	10

TABLES

No.		Page
1	Tabulation of Costs of the Project.	11

DMEA 3546

BIG CAMERON MINE
HANS MOSCH AND ALVIN MOSCH
BOULDER COUNTY, COLORADO

RECEIVED
SEP 17 1956

INTRODUCTION AND SUMMARY

The tungsten exploration project authorized at the Big Cameron mine, Boulder County, Colorado under Exploration Project Contract Idm-E748 was terminated, effective February 29, 1956, by mutual consent of the Operator and the Government. That part of the project then carried out by the Operator had revealed the Steel Plate vein southwesterly along the lower level of the Big Cameron shaft to be a barren and weakening structure within an unfavorable host rock. Continued exploration of the structure in this direction was considered unfavorable. Exploration of the Steel Plate vein northeast from the shaft, while more promising, would be outside the property rights defined in the contract and on ground subordinated under Exploration Project Contract Idm-E54 (Cold Spring Tungsten, Inc.). Exploration of other areas of the property with Government assistance was not considered warranted.

In July 1954, a partnership comprised of Mac Brown, Hans Mosch, and Alvin Mosch made application for Government assistance the Big Cameron mine for tungsten. The partners were lessees of only the Big Cameron claim and the application was returned with the suggestion that certain adjacent property be secured. They subsequently leased the Fraction, Jack, and the west 300 feet of the Steel Plate No. 1 claims and resubmitted their application in October 1954. In their application (Docket No. DMEA 3546), the partners proposed to explore the Steel Plate vein which outcropped on portions of the Big Cameron and Steel Plate No. 1 claims.

Their specific proposal involved deepening the shallow Big Cameron shaft by 100 feet and drifting a total of 300 feet along the Steel Plate vein at the new depth. Their estimated total cost of the proposed project was $16,150.00.

The property was inspected November 3, 1955 by an examining team from the Bureau of Mines and Geological Survey. The Steel Plate vein was a strong well defined structure occurring within a highly productive area of the Boulder County tungsten district. The vein had produced small tonnages of tungsten ore from shallow workings along its outcrop but was relatively unexplored in the vicinity of the Big Cameron shaft. The older workings along the Steel Plate vein were caved and inaccessible and the structure was exposed only in the 54-foot Big Cameron shaft and along a short level off the bottom of that shaft. The examining team concluded that the vein did warrant further exploration. The amount of work proposed by the Applicants, however, was considered too extensive on the basis of the present exposures. A modified project involving only 50 feet of shaft sinking and 200 feet of drifting was recommended at an estimated total cost of $9,870.00 (Government participation $7,402.50).

The Big Cameron shaft was on the common end line of the Big Cameron and Steel Plate No. 1 claims. The drifting recommended northeasterly from the shaft would extend onto the Steel Plate No. 1 claim. Although exploration of the vein in both directions from the shaft originally was recommended, there was evidence that its exploration northeasterly on the Steel Plate claim was more promising. It developed, however, that the DMEA would not release the western 300 feet of the Steel Plate

claim from its subordination under Contract Idm-E54. Such action reduced the exploration potential of the recommended project by more than one-half. The examining team concluded that the southwesterly exploration of the vein on the Big Cameron claim alone was not of sufficient merit to justify the previously recommended project and recommended, with the concurrence of the Field Team, that the Applicant's request for exploration assistance be denied. The DMEA commodity group in Washington, however, reversed the field recommendations in this matter and short-form Exploration Project Contract Idm-E810, authorizing exploration on the Big Cameron claim only, was prepared.

Exploration Project Contract Idm-E810, dated June 6, 1955, was between the Government and Hans Mosch and Alvin Mosch (in the interim Mac Brown had withdrawn from the partnership). The contract authorized the deepening of the Big Cameron shaft by 60 feet and 152 feet of drifting southwesterly along the Steel Plate vein on a new 104-foot level off the shaft. The estimated total cost of the project was $8,280.00. The contract stipulated a fixed unit cost for each unit of work to be performed. The Government would contribute 75 percent of the fixed unit cost as the work was performed, in a total sum not in excess of $6,210.00. Project work was to commence on or before July 15, 1955 and was to be completed on or before January 1, 1956. The completion date subsequently was extended to March 6, 1956 by an amendment to the contract.

Project operations commenced July 7, 1955 and were more or less continuous through the effective termination date of the contract. During this period, the Operator sank the Big Cameron shaft 60 feet to a total depth of 114 feet from the surface and drifted a total of 138 feet

southwesterly along the Steel Plate vein on a new 104-foot level turned from the shaft. The accepted costs of the project--equivalent to the completed units of work at the stipulated unit prices--totaled $7,810.00. The Government contributed 75 percent of the accepted project costs or a total of $5,857.50. A small balance of the Government's contribution, which was withheld pending resolution of matters relative to closing the project account, was paid the Operator April 25, 1956.

LOCATION OF THE PROPERTY

The property under lease by the Operator is in SW¼ sec. 7, T. 1 S., R. 72 W., 6th P.M. (Grand Island Mining District), Boulder County, Colorado. The claims are located on the eastern flank of Hurricane Hill, a productive area in the central part of the Boulder County tungsten district (fig. 1), at an elevation of about 8,550 feet above sea level. The mine is about 2 miles northeast of Nederland, Colorado, via State Highway 160 and a graveled country road. It is accessible throughout the year. The nearest custom tungsten mill is located in Nederland.

OPERATOR'S PROPERTY RIGHTS

The Operator's property rights as described under Article 2 of the contract includes the following patented lode mining claims:

Big Cameron	U. S. Mineral Survey	19559
Fraction	" "	19972
Jack	" "	18346

In addition, the Operator was lessee of the western 300 feet of the Steel Plate No. 1 claim (U. S. Mineral Survey 19632) which is subordinated to the Government under Exploration Project Contract Idm-E54 (Cold

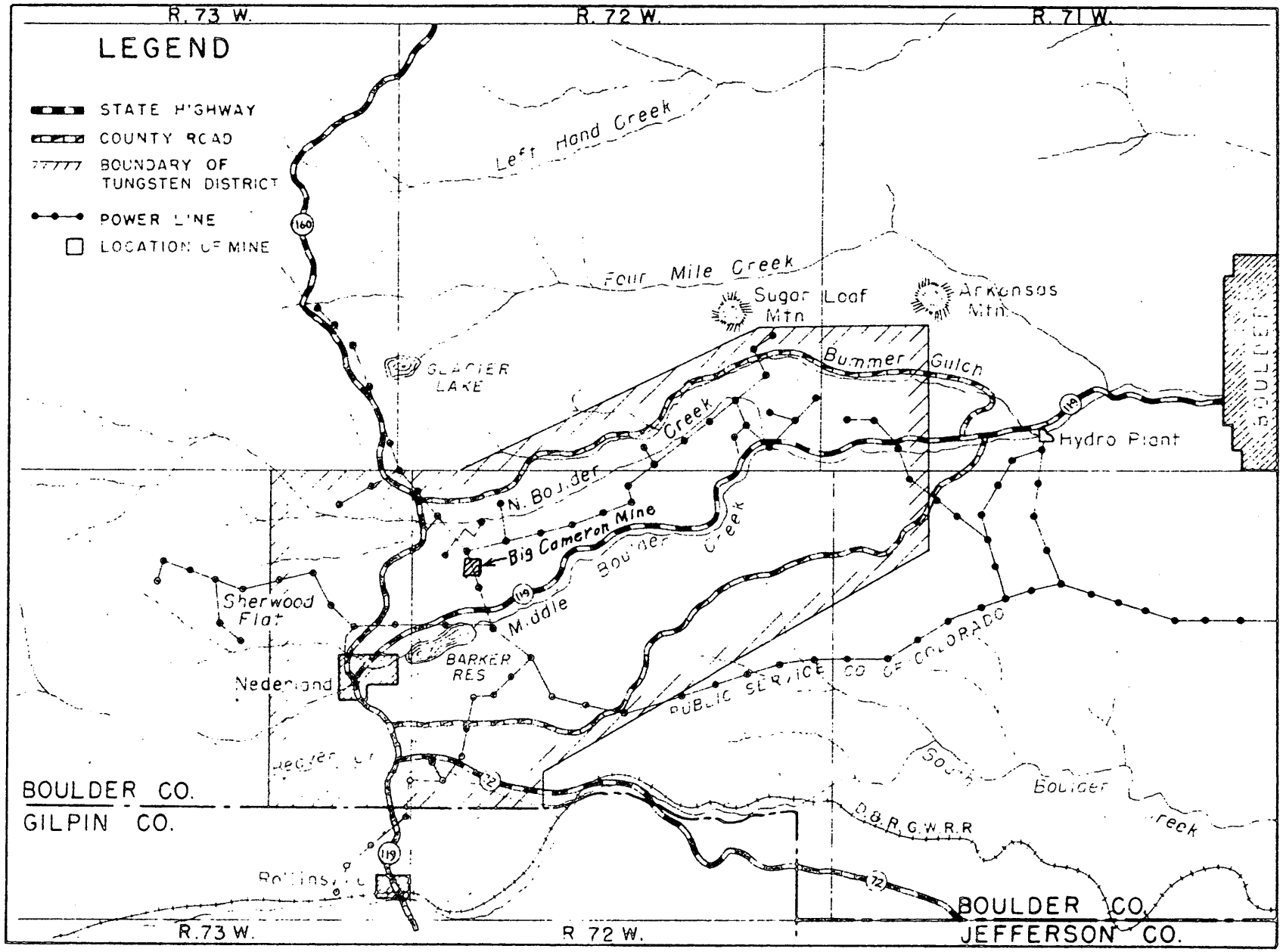


FIGURE 1. - INDEX MAP OF THE BOULDER COUNTY TUNGSTEN DISTRICT, COLO. SHOWING LOCATION OF BIG CAMERON MINE (MOSCH AND MOSCH DMEA 3546 Contract Idm-E810)

Spring Tungsten, Inc.).

On the date of the application for exploration assistance, the above described property was owned by Hetzer Mines, Inc. and leased to the Operator. The lease, dated July 10, 1954, was for a period of 3 years and provided for a royalty of 16 percent of the net proceeds realized from the sale of any ore produced from the premises. On May 31, 1955, Hetzer Mines was absorbed by Cold Spring Tungsten, Inc., 1036 First National Bank Building, Denver, Colorado. The Operator's lease on the property was reaffirmed by the new owner.

The relative locations of the Operator's property rights are indicated on figure 2. The Steel Plate vein outcrops southwesterly along the length of the Steel Plate No. 1 claim and extends onto the eastern end of the Big Cameron claim. The extension of the vein farther westerly on the Big Cameron claim is inferred; its outcrop in this direction is obscured by overburden. The exploration completed by the Operator during the project was confined to the eastern 150 feet of the Big Cameron claim.

HISTORY AND PRODUCTION

The total production from the Steel Plate No. 1 claim is reported as 115 short ton units of tungsten trioxide. This total includes some 11 units which were produced in 1951 during the sinking of the 50-foot shaft on the Steel Plate vein near the western end of the claim. The remainder, estimated in value at $5-6,000, reportedly was produced prior to World War I from a shallow shaft on the vein some 70 feet to the northeast. Early in 1954, the Operators sank a 54-foot shaft on the vein just inside

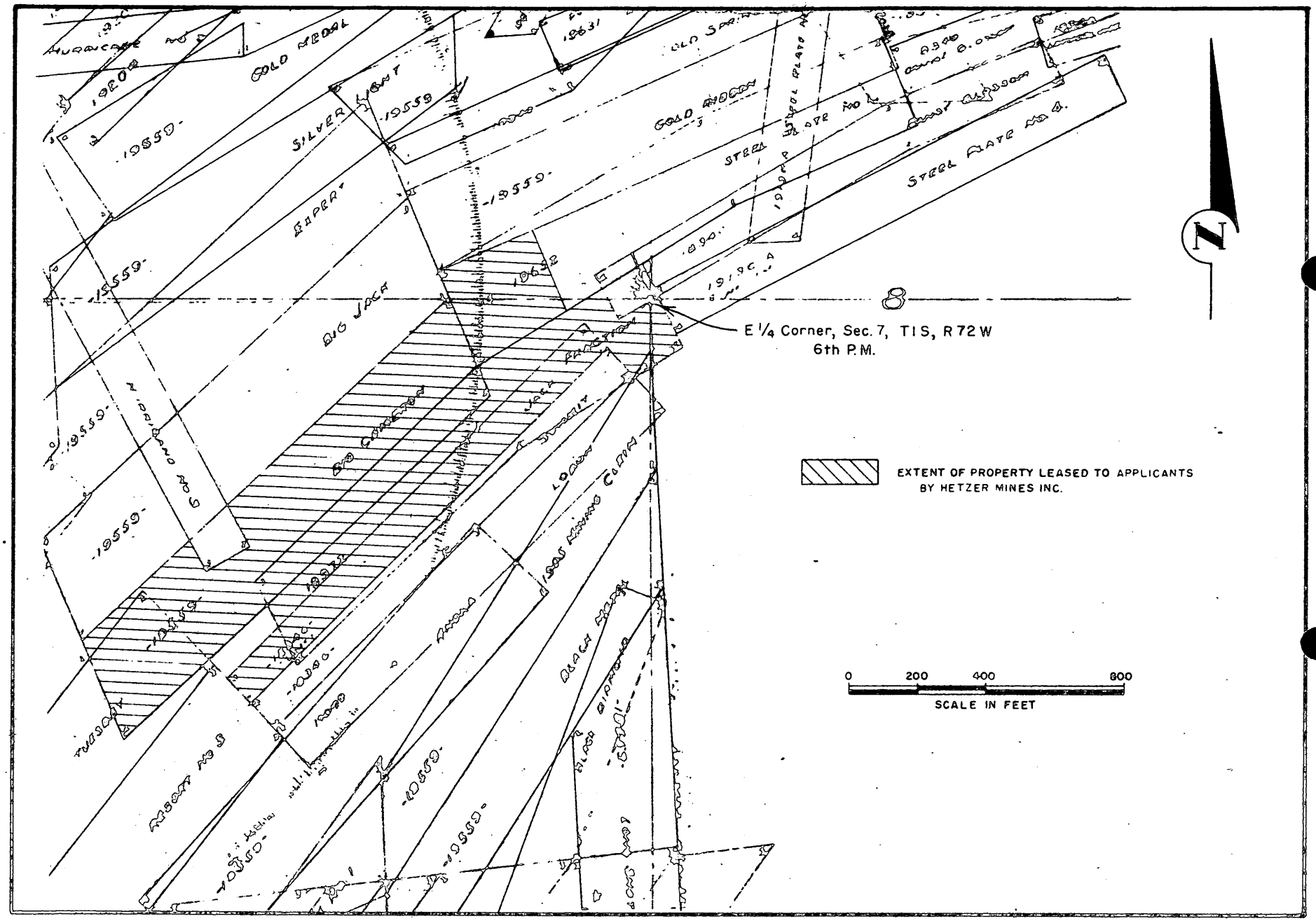


FIGURE 2- CLAIM MAP, BIG CAMERON MINE, BOULDER COUNTY, COLO.
(MOSCH AND MOSCH · DMEA 3546, CONTRACT Idm-E 810)

the end line of the Big Cameron claim. A level drift was extended approximately 40 feet southwesterly along the vein from the bottom of the shaft. Ore containing about 33 units of WO_3 was recovered from this work. A small ore shoot subsequently was stoped to a height of about 30 feet above the 54-foot level. The production from this source, however, is unknown.

GEOLOGY

The geology of the Boulder County Tungsten District is described in U. S. Geological Survey Professional Paper 245 by Lovering and Tweto (1953), and that of the Steel Plate-Big Cameron claims in the Geologic Report, DMEA Docket 2100 by Ogden Tweto, and DMEA Docket 3546 by D. R. MacLaren.

The Steel Plate vein is one of the numerous tungsten veins in the highly productive area on the east flank of Hurricane Hill. It is a relatively long vein that strikes N. 55° E to N. 66° E. and dips 60° NW to vertical between walls of granite, aplite, pegmatite, gneiss, and schist. It has been worked mostly near the eastern end in the area south of the Cold Spring mine where it has been moderately productive from several shafts, tunnels, and trenches. The ore occurs as small bodies localized where the vein cuts dikes of aplite. Near the western end the vein has been virtually unexplored.

Near the west end of the Steel Plate No. 1 claim (fig. 3) an old caved shaft on the Steel Plate vein is said to have produced tungsten ore valued at $5,000 to $6,000 in 1917 and 1918. This shaft, reported to be 40 to 50 feet deep, was abondoned when the price of tungsten fell in 1918, and later caved. About 70 feet southwest of the old shaft is the

Steel Plate shaft. This shaft is now caved but in 1951 it was open and was examined by Ogden Tweto (DMEA Docket 2100). The vein in the shaft strikes N. 57° E. and dips 70° NW. It is almost indistinguishable to a depth of about 10 feet, but below that depth the vein, 8 to 24 inches wide, is well defined in a sheeted and locally silicified aplite and granite seamed with veinlets, nodules, and small pods of ferberite. The shaft is in what appears to be an irregular dike of aplite and, in places, granite. At a depth of about 20 feet there is a small patch of gneiss (partly assimilated schist) which grades into the bordering granite. Ferberite was found continuously in the shaft from the surface to the bottom, at a depth of about 50 feet, mostly in the narrow and harder part of the vein along the west side. At one place nodules were found in soft, altered, oxidized rock along the east side of the shaft.

The Big Cameron shaft is about 75 feet southwest of the Steel Plate shaft (fig. 3). Prior to the start of work under the DMEA contract the Big Cameron shaft had been sunk vertically on the vein to a depth of 54 feet and a drift had been driven 40 feet southwesterly from the shaft. Starting about 15 feet southwest of the shaft a lens of ore, about 20 feet long, was being stoped.

The vein followed by the 54-foot level drift has an average strike of N. 62° E., and dips 85° NW to vertical. Above the 54-foot level the wall rock in the shaft is mostly aplite and granite, but on and just above the level it is gneiss. The vein on and above the level is a sheeted zone up to 2 feet wide. In the gneiss it is much more weathered and stained by iron oxides than it is in the aplite or granite. Also in the gneiss nodules and small streaks of ferberite are much less abundant

than in the other rocks. Under the DMEA contract the shaft was deepened 60 feet and a drift was driven 137 feet southwesterly from the shaft on the 104-foot level. Below the 54-foot level the vein flattened to 75° NW while the shaft was sunk on a pitch of 85° NW. Below the 54-foot level the shaft was entirely in schist as was the 104-foot level. On the 104-foot level a 12-foot crosscut driven N. 83° W. from the southwest side of the shaft cut the vein at 10 feet. From this point the vein was followed by a drift for about 125 feet southwesterly. It strikes N. 66° E. and dips from 74° to 80° NW. The vein on the 104-foot level is a strong gouge-filled shear zone from 1 to 3 feet wide for about 80 feet. It then split into two well defined shears, the weaker one on the footwall passing into the southeast wall of the drift. The hangingwall split, about 1 foot wide, continued to the breast of the drift, with another weak foot wall split about 12 feet back from the breast.

The Operator, on his own account, drove the crosscut to the vein northeast of the shaft and started a drift to the northeast. When the contract was terminated this drift had followed a strong vein for about 15 feet.

The only ferberite found on the 104-foot level is in a few small nodules of peanut size in the last few feet of the drift driven by the Operator to the northeast.

PROJECT OPERATIONS

Description of work completed:

Project operations commenced July 7, 1955. The timber in the existing Big Cameron shaft was in disrepair and required considerable rehabilitation. New ladders and platforms were installed the full length of

the manway compartment and sections of both the manway and hoisting compartments were lagged. Water pipe and ventilation tubing were extended to a point near the existing bottom of the shaft.

Project sinking started at a depth of 54 feet in the Big Cameron shaft. The shaft was sunk 50 feet without interruption to a depth of the new 104-foot level. It was excavated to a 4-by 8-foot cross section inside the timber. The two-compartment sets were framed from round native timber. The upper sections of the shaft followed the nearly vertical Steel Plate vein. The wall rock was a soft schist and carried little water. The Steel Plate vein flattened somewhat toward the northwest at a depth of about 90 feet below the surface and the bottom 14 feet of the shaft was sunk in the more consolidated rock in the footwall of that structure.

The authorized 104-foot level heading initially was extended northwest from the shaft as a crosscut. The Steel Plate vein was intersected about 11 feet from the shaft and the heading thereupon was turned and driven southwesterly as a drift along that structure. The formation at this depth contained appreciable water and the Operator, therefore, decided to complete the remainder of the sinking authorized under the contract. The shaft was deepened to a total depth of 114 feet below the surface. The 10-foot section of shaft below the 104-foot level served as a drainage sump for that level and also provided room for loading a hoisting bucket and a shaft bailer.

The 104-foot level drift was continued southwesterly along the Steel Plate vein. The structure remained within a soft schist which sloughed badly and required timber support. The vein continued moderately strong

but barren for a distance of about 85 feet from the shaft at which point it split into a foot and hanging wall branch. Each branch of the structure rapidly weakened and eventually lost its identity among the cross fractures and shears within the schist. The 104-foot level drift on the Steel Plate vein had been extended a total of 138 feet southwest from the Big Cameron shaft by February 29, 1956. (fig. 4).

The structure essentially had died out. The completion of the remaining 14 feet of authorized project drifting was not warranted and the Operator therefore requested cancellation of the contract. The Government concurred with the Operator that no further work should be performed. The contract, therefore, was terminated by mutual consent. The official termination agreement, issued April 9, 1956, was effective February 29, 1956.

At intervals during the project period, the Operator crosscut a short distance from the shaft and drifted northeasterly along the Steel Plate vein. The drift had been extended to a point some 32 feet northeast of the shaft (22 feet beyond the end line of the Big Cameron claim) by the effective termination date of the contract (fig. 3). The vein exposed in this heading was much more promising than in the project drift and contained a few small streaks of ferberite. The Operator subsequently extended this heading farther onto the Steel Plate claim and reportedly raised on a small showing of ore along the section of the vein. The showing was on ground subordinated under Exploration Project Contract Idm-E54.

After the termination of the contract, the Operator attempted to mine the small occurrence of ore that had been exposed during the project

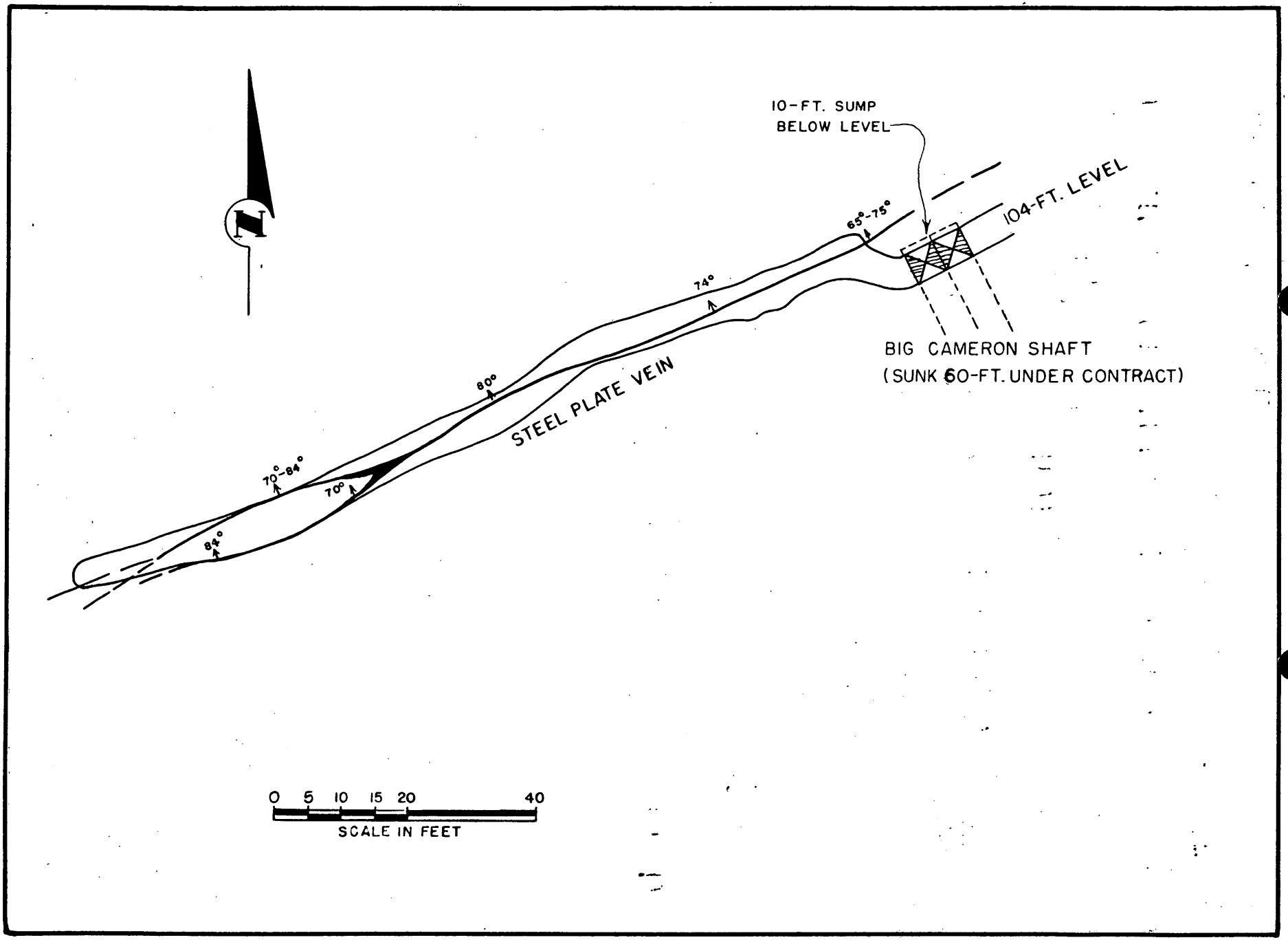


FIGURE 4-PLAN OF 104-FT. LEVEL, BIG CAMERON MINE, BOULDER COUNTY, COLO., DMEA 3546 (TUNGSTEN), SHOWING DRIFTING DONE UNDER CONTRACT Idm-E810

at a depth of approximately 80 feet in the Big Cameron shaft. The ore was very limited in extent and was stoped for only a few feet east of the shaft within the boundaries of the Big Cameron claim. One lot of ore from this source (1.096 tons averaging 5.79% WO^3) was shipped on April 25, 1956. The net value of the shipment was $212.08 on which a royalty in the amount of $10.60 was paid the Government.

COST OF THE PROJECT:

The authorized and the accepted costs of the project are summarized below. The summary also indicates the units of work both as authorized in the contract and as actually completed by the Operator.

Authorized Project Work				Project Work Completed	
Operation	Units	Unit Cost	Total Cost	Units	Accepted Costs
Sinking	60 ft.	$68.00	$4,080.00	60 ft.	$4,080.00
Drifting	152 ft.	27.00	4,104.00	138 ft.	3,726.00
Analysis of samples	24 ea.	4.00	96.00	1 ea.	4.00
Total Cost:			$8,280.00		$7,810.00
Government Participation:			$6,210.00		$5,857.50

The Government withheld an amount of $50.00 from reimbursement to the Operator pending resolution of matters relative to closing the project account. This balance of the Government's contribution in the costs of the project was paid the Operator on April 25, 1956.

PROJECT EQUIPMENT:

The fixed unit prices stipulated for the various types of project work reflected a reduction for the estimated value of any materials,

equipment, or other property that normally would unexpended and salvable at the completion of project operations. The Government, therefore, was not concerned with the disposition of such property upon the termination of the contract.

EFFICIENCY OF OPERATIONS:

Most of the project work was performed by the two Operators. The work was performed slower than normally would be expected. The operational efficiency otherwise was about average to that of comparable work performed elsewhere in the district. Much of the operating equipment was old and subject to frequent breakdowns. Heavy snowfall and freezing temperatures during part of the project period caused some delay in the work.

CONCLUSIONS AND RECOMMENDATIONS

That part of the program carried out prior to the termination of the project conformed to the specifications in the contract. The Government's contribution in the costs of the completed portion of the project, therefore, was valid and proper.

The project did not result in the discovery of significant reserves of tungsten ore and its certification by the Government, therefore, is not recommended.

400

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

RECEIVED
SEP 13 1956

224 New Customhouse
Denver 2, Colorado

September 11, 1956

Memorandum

WJM

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3546 (Tungsten), Contract Idm-E810, Mosch and Mosch (Big Cameron Mine), Boulder County, Colorado

In further reference to the origin of 1.096 tons of tungsten ore reported under settlement sheet No. 1941 issued by Cold Spring Tungsten, Inc., a portion of the forthcoming joint engineering and geologic Final Report of Project Operations on the subject contract by R. L. Bolmer, and Dr. MacLaren is quoted as follows:

> "After the termination of the contract, the Operator attempted to mine the small occurrence of ore that had been exposed during the project at a depth of approximately 80 feet in the Big Cameron shaft. The ore was very limited in extent and was stoped for only a few feet east of the shaft within the boundaries of the Big Cameron claim. One lot of ore from this source (1.096 tons averaging 5.79 WO^3) was shipped on April 25, 1956. The net value of the shipment was $212.08 on which a royalty in the amount of $10.60 was paid the Government".

First mention of this ore occurrence was made in the Operator's Narrative Report for the month of August, 1955 as follows:

> "The mineralized vein is rolling under the hanging wall. Some tungsten ore assaying tungsten oxide (WO^3) 1.74% was exposed at a depth of about eighty feet".

In the Progress Report for August, 1955, the examining engineer, R. L. Bolmer, states as follows:

Please see if FEJ is now willing to let our closing letter go out?

F.E.J. says O.K. to send out closing letter if 6 months has expired, and if F.J. legal report is in. If find they have not, so will have to hold up while I open.

S. Pitt
9.21.56

"One sample of the vein, which was taken by the operator at a depth of about 80 feet and presently is hidden behind the lagging reportedly assayed 1.74 percent WO_3."

Photocopy of the assay report retained by the Finance Office, Region XIX, substantuates the sample content of 1.74% WO_3.

Subsequent to this date, settlement sheet and royalty check was received in this office which stated ore purchased and covered by No. 1941 was shipped from Big Cameron. As our records indicated the Operator's efforts were being directed towards property subordinated under Contract E54, we thought perhaps the settlement sheet might be in error, hence our inquiry, dated May 16, 1956, to the Operator.

In reply of May 26, 1956 the Operator unequivocally stated:

"The recent shipment of tungsten ore from the Big Cameron Mine did not come from the Steel Plate Claim. It was mined from a stope east of the Big Cameron shaft and within the Big Cameron claim U. S. Survey No. 19559".

Thus, as we had no further evidence to believe otherwise, and knowing it to be virtually impossible to prove that the very small volume represented by the reported production could not have been mined from the Big Cameron Claim, we accepted the word of the Operator.

We therefore are satisfied that the ore reported by settlement sheet No. 1941, verified by the Operator in a letter dated May 26, 1956, and reported by R. L. Bolmer and D. R. MacLaren, was mined within the boundaries of the Big Cameron claim.

W. M. TRAVER

W. M. Traver

MHM/wj

cc: Royalty File E810
Corres. File E810
J. F. Shaw (2)
Marshall
Chron.

SEP 7 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA-3546, Tungsten
Mosch and Mosch
Big Cameron Mine
Boulder County, Colorado

Dear Mr. Traver:

This will acknowledge receipt of your letter of August 30, 1956, asking what further steps we wish you to take in the matter requested in our letter of August 27 regarding the subject project.

As you know, the Operator's final report, submitted to us with your letter of April 20, 1956, concluded as follows:

> "Supplementing DMEA sponsored contract drifting south-westerly from the shaft, another drift was driven north-easterly and on the vein. The vein as seen in the drift consisted of a six inch width of horn quartz saturated with red and black stain. Small thin seams of tungsten (Ferberite), lay adjacent to the vein within the hanging wall slickenside. Near the breast of this drift a raise was started. Twenty feet above the drift a back containing commercial ore was exposed. The ore lay in a four to eight inch streak of horn, and in a soft gouge adjacent to the horn. Evaluation is not yet available."

The last part of the first paragraph on page two of Bolmer's memorandum to you of March 9, 1956, included the following statement:

> " . . . Work northeast of the shaft is not authorized under the contract but is being carried out at the operator's own expense. The operator intends to continue this heading for a short distance to test the vein below the known ore shoots in the workings off the old Steel Plate shaft."

Regarding the same project, as was mentioned in our letter to you of February 8, 1955, and repeated in our letter to you of July 5, 1955, in the last paragraph on page two thereof:

> "We will, however, consider an application for a small exploration project on the Big Cameron claim if Brown, Mosoh and Mosoh care to apply. The Big Cameron shaft is close to the end line of the same-named claim; and if ore should be mined from the Steel Plate No. 1 claim and extracted through the Big Cameron shaft, Cold Spring Tungsten, Inc., would then be liable to the Government for payment of the royalty, either directly or by the lessee."

We believe, therefore, that you should satisfy yourself as may be most practicable whether the ore in question was mined from the Big Cameron or the Steel Plate No. 1 claim and advise us accordingly.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Approved;

Frank D. Lamb
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
Thor Kiilsgaard, USGS
R. W. Holliday, USBM
FT, Reg. 3

WSMartin/ls
9/6/56

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

402

RECEIVED
SEP - 4 1956

224 New Customhouse
Denver 2, Colorado

August 30, 1956

Memorandum

WSM

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3546 (Tungsten), Contract Ida-E810, Mosch and Mosch (Big Cameron Mine), Boulder County, Colorado

With reference to your letter of August 27, 1956, we too questioned the origin of production covered by settlement sheet No. 1941, hence our letter of May 16, 1956, to the Operator asking specifically from what claim was this ore produced.

The Operator's reply, dated May 26, 1956 stated quite positively that the ore did not come from the Steel Plate claim. The Operator further stated in his reply that the ore was mined within the Big Cameron claim.

We accepted the Operator's word as the very small tonnage involved conceivably could have been mined within the area between the Big Cameron shaft and the east end line of the Big Cameron claim.

Please advise us what steps to take if you wish further pursuit of the matter.

W. M. TRAVER

W. M. Traver

MHM/vj

cc: Royalty File E810
Corres. File E810
J. F. Shaw (2) w/2 cys Oper. ltr dtd 8/27/56
Marshall
Chron.

AUG 27 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
22d New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA 3546 - Tungsten
Mesch and Mesch
Big Cameron Mine
Boulder County, Colorado
Contract No. Lbs-8510

Dear Mr. Traver:

Reference is made to your letter of August 16, transmitting, as we had requested, photocopies of a letter to you from Alvin Mesch, dated May 26, 1956, relative to the origin of the ore tonnage on which the subject operator paid royalty.

Our maps show that the Big Cameron shaft is approximately 8 feet west of the east end line of the Big Cameron claim. If the production in question was mined east of the Big Cameron shaft, as Mr. Mesch's letter states, it is difficult to visualize how that production could have been mined from the Big Cameron claim.

Your comments on this question will be much appreciated.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

FRANK D. LAMB

Member, Bureau of Mines

N. E. Nelson

Member, Geological Survey

SPHOLT:foc 8/22/56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. R. W. Holliday, USBM
T. H. Kilsgaard, USGS

8/24/56

Re: Mosch and Mosch
DMEA-3546
Idm-E810

This is entirely an engineering question. The letter however appears to me to be negative in tone rather than positive. The last sentence, I believe, should be stated somewhat like the following: "Will you explain or have Mr. Alvin Mosch explain just where the production was mined as it is difficult for us to place the spot on our maps. It would be well if he could draw an illustration."

J. L. Chambers

Discussed with FEJ, who has no objection to our letter as now corrected

WSM
8/24/56

AUG 13 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3546, Tungsten
Mosch and Mosch
Big Cameron Mine
Boulder County, Colorado
Contract No. Idm-2810

Dear Mr. Traver:

Reference is made to your letter of May 16, 1956, to Mr. Hans Mosch regarding royalty payments at the subject project and inquiring whether the same Operator's Lot No. 1941, shipped April 25, 1956, was mined from the Steel Plate No. 1 claim or the Big Cameron claim.

It is noted that deposit of the royalty in the amount of $10.60 was credited to the referenced project, and, therefore, presumably the ore was mined from the Big Cameron claim. However, to complete our records, a copy of the reply received to your letter of May 16 would be appreciated.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

FRANK D. LAMB
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

cc: Docket
Code 400
Oper. Committee
Adm. Read. File
T. Kilsgaard, USGS
R. W. Holliday, USBM
FT, Reg. 3
Code 800-Audits

WSMartin/EDTalbert/ls
8/13/56

2nd ¶ suggested as follows:

It is note that about of the royalty in amount of $10.60 was credited to referred project and, therefore, presumably the ore was mined from the Big Cameron claim. However to complete our records, a copy of the reply received to your letter of May 16, 1956, would be appreciated.

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

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3546, Tungsten
Mosch and Mosch
Big Cameron Mine
Boulder County, Colorado
Contract No. Idm-E810

Dear Mr. Traver:

Reference is made to your letter of May 16, 1956, to Mr. Hans Mosch regarding royalty payments at the subject project and inquiring whether the same Operator's Lot No. 1941, shipped April 25, 1956, was mined from the Steel Plate No. 1 claim or the Big Cameron claim.

To complete our records, it will be appreciated if you will obtain the requested information from Mr. Mosch and advise us accordingly.

Sincerely yours,

Chairman, Operating Committee

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

Remote

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

400

RECEIVED
MAY 18 1956

2th Floor Customhouse
Denver 2, Colorado

May 16, 1956

NSM

Mr. Hans Mosch
5875 Dover Street
Arvada, Colorado

Re: Royalty payments, Docket DMEA 3546 (Tungsten)
Contract I4m-E810, Mosch and Mosch, (Big
Cameron Mine), Gunnison County, Colorado

Dear Mr. Mosch:

The settlement sheets and royalty payment check to the amount of $10.61 from Lot No. 1941 shipped April 25, 1956, from the Big Cameron Mine has been received by this office.

From what claim was this ore produced? If the ore was produced from the Steel Plate No. 1 claim, the royalty payment of $10.61 will be applied to DMEA Contract I4m-E[illegible]. If the ore was produced from the Big Cameron claim, the royalty payment of $10.61 will be applied to DMEA Contract I4m-E810.

1447

A prompt reply from you will assist us to make proper application of the royalty now being withheld.

Yours very truly,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region XIX

cc: Mr. G. C. Ridland

WMT/vj
cc: Royalty File E810
Sec. Opr. Comm. (2)
J. F. Shaw (2)
Chron.

APR 27 1956

Mr. W. M. Trever, Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA 3546 - Tungsten
Meech and Meech
Big Cameron Mine
Boulder County, Colorado
Contract No. Idm-E810

Dear Mr. Trever:

Reference is made to the Operators' letter of March 12, 1956, and undated Final Report on the above noted project, advising that, in drifting to the northeast from the Big Cameron shaft, a well mineralized zone was encountered and ore was found in a 20-foot raise. Presumably this new work is on the Steel Plate No. 1 claim which is part of the area certified under Contract No. Idm-E54 (Docket No. DMEA-1447). You should, therefore, advise Cold Spring Tungsten, Inc., of its liability for royalties on any ores extracted from said claim by Meech and Meech or other Operators.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

/s/ Robert W. Geehan
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

TLChapman/foc 4/26/56
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.
FT. REG. III
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

400

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

224 New Customhouse
Denver 2, Colorado

April 27, 1956

WMT

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3546 (Tungsten) Contract Idm-E810, Mosch and Mosch (Big Cameron mine) Boulder County, Colorado FINAL PAYMENT

Enclosed are two copies of a memorandum to T. A. Christensen, dated April 20, 1956, relative to final payment under the terms of the subject contract.

W. M. Traver

W. M. Traver

Enclosures

RECEIVED
APR 30 1956

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

224 New Customhouse
Denver 2, Colorado

April 20, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3546 (Tungsten) Contract Idm-E810, Mosch and Mosch (Big Cameron mine) Boulder County, Colorado
FINAL PAYMENT

Reference is made to our memorandum of March 12, 1956 whereby we transmitted the final Form MF-104, Operator's Monthly Report and Voucher for the month of February, 1956 and requested that you withhold the amount of $50.00 from reimbursement to the Operator pending resolution of matters relative to closing the account.

The Operator's final report has been received, therefore we recommend that final payment to the Operator be made on the following basis which is in conformance with the Report of Review by the Contract Administration and Audit Division, dated April 19, 1956 which was released to this office April 20, 1956.

Basis for Final Payment

Total accepted cost	$7,810.00
Government participation at 75 percent	5,857.50
Total prior payments	5,807.50
Final payment	$ 50.00

RECEIVED
APR 30 1956

W. M. TRAVER

W. M. Traver

JDC:jy
cc: MF-104 File E810
Sec. Op. Comm. (2)
Shaw (2)
Townsend
Cooper
Chron.

$50.00

4/25/56 DMA 56-101

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

RECEIVED
APR 23 1956

224 New Customhouse
Denver 2, Colorado

April 20, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3546 (Tungsten), Contract Idm-E810, Mosch and Mosch (Big Cameron mine), Boulder County, Colorado

In compliance with instructions contained in the Minutes, Operating Committee, No. 622, dated January 27, 1956, we are enclosing the original and one copy of the Operator's Final Report.

W. M. Traver

W. M. Traver

Enclosures

Operator's Final Report undated

COMPLETION REPORT

Re; Big Cameron Mine
DMEA 3546
Contract No. Idm E8IO

RECEIVED
APR 23 1956

Original Stamped as received in Denver office Apr. 5 1956
S.P.H.

Contract work authorized by the Government for the exploration of the Steel Plate vein as located within the Big Cameron Mining Claim, U.S. Survey No. I9972, consisted of sinking the Big Cameron Shaft sixty feet, thus extending it to a depth of one-hundered and fourteen feet, and of drifting one hundered and fifty-two feet south-westerly along the vein. The sinking has been completed. One-hundered and thirty-eight feet of south-westerly drift was driven.

During the sinking and about eighty feet deep, small traces of tungsten oxide(WO_3) assaying I.74% was exposed. At the same depth a water level was reached, and the vein changed it's dip, rolling somewhat under the hanging wall. The newly opened angle of dip remained constant in all lower workings. The upper portion of the sinking penetrated through a schist, and the lower through a complexity of boulder creek granite, iron oxidized quartz, a sill of aplite, and more schist. Shortly after opening up a flatter dip of the vein, it was purposely left unexposed within the hanging wall. This was necessary in order to gain the benefit of hoisting through a vertical shaft.

At a depth of one-hundered and four feet, a drift was driven into the hanging wall. About ten feet from the shaft, the vein was again opened up. It consisted of a mineralized composition of gouge and horn quartz. The drift was then turned south-westerly and commenced to follow the vein for a distance of one-hundered and thirty-eight feet. Shortly after its exposure the vein widened to about eight inches and remained relatively uniform for about fifty feet. From fifty to approximately one hundered feet, the gradual dimminishing of the vein was observed. The last thirty-eight feet of drifting was through a gouge of schist separating granite walls six to eight feet apart. Little vein was present.

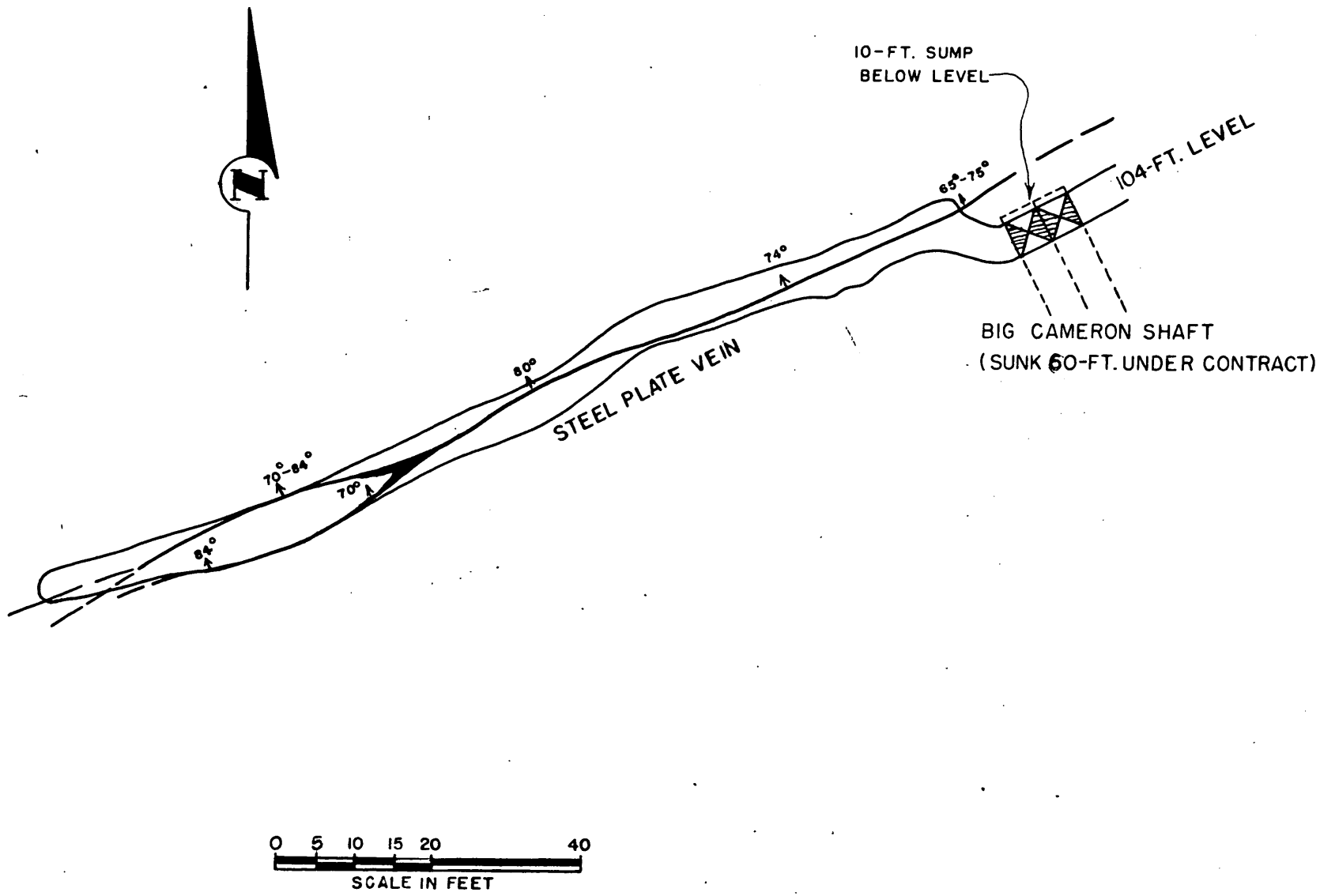
The abundance of heavy schist throughout the entirety of drifting necessitated a complete timbering of most of the drift. During an interval between periods of drifting, a ten foot sump was sunk and timbered. The square set method of timbering a two compartment shaft was utilized throughout the distance of sinking.

Supplementing DMEA sponsored contract drifting south-westerly from the shaft, another drift was driven north-easterly and on the vein. The vein as seen in the drift consisted of a six inch width of horn quartz saturated with red and black stain. Small thin seams of tungsten(Ferberite), lay adjacent to the vein within the hanging wall slickenside. Near the breast of this drift a raise was started. Twenty feet above the drift a back containing commercial ore was exposed. The ore lay in a four to eight inch streak of horn, and in a soft gouge adjacent to the horn. Evaluation is not yet available.

Alvin Mosch

Alvin Mosch(Partner, Big Cameron)

Operator's
Final Report



PLAN OF 104-FT. LEVEL, BIG CAMERON MINE, BOULDER COUNTY, COLO., DMEA 3546 (TUNGSTEN), SHOWING DRIFTING DONE UNDER CONTRACT Idm-E810

400

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

RECEIVED
APR 1 3 1956

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

April 13, 1956

WJM

Messrs. Hans Mosch
and Alvin Mosch
5275 Dover
Arvada, Colorado

Re: Docket DMEA 3546 (Tungsten)
Contract Idm-2810
(Big Cameron mine)
Boulder County, Colorado

Gentlemen:

Enclosed are the Government's, Division, Docket, Finance Office, and Field Team copies of a TERMINATION AGREEMENT which was prepared in Washington and has been signed by the Administrator, DMEA, for the Government, to effect termination of Contract Idm-2810, effective February 29, 1956.

If the TERMINATION AGREEMENT is satisfactory to you, all copies are to be signed by both partners as indicated and all copies promptly returned to this office.

Upon return of the properly executed copies of the TERMINATION AGREEMENT, the "Operator's Copy" will be forwarded to you.

As soon as the TERMINATION AGREEMENT is executed, the report of review of contract expenditures by the Contract Administration and Audit Division will be completed and upon its release to us final payment will be made to you of the balance which was suspended from your last accounting report.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures
JWT:prl
cc: Chairman, Oper. Comm. (2)
Harshman
Shaw
Townsend
Corres. file
Chron.

400

APR 1 0 1956

Mr. W. M. Trover, Executive Officer
DMEA Field Team, Region III
22h New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA 3546 - Tungsten
Nesch and Nesch
Big Chamoon Mine
Boulder County, Colorado
Contract No. IAm-MEHD

Dear Mr. Trover:

Enclosed are the original and five copies of a proposed Termination Agreement to the above-referenced contract, signed by the Administrator for the Government. Two extra copies are enclosed for the use of the Field Team.

If the terms and conditions of this proposed agreement are satisfactory to you and the Operator, all six copies should be signed by the Operator and the usual distribution made.

If any part of the proposed agreement does not have your approval or that of the Operator and cannot be altered within your delegated authority, the original and all copies are to be returned to this office, together with the proposed changes for consideration.

Although we advised you in our teletype of March 28, 1956, that the effective date of this agreement would be left blank for you to insert, we have inserted in Article 1 the date February 29, 1956, inasmuch as your letter of March 13 to the Operator stated that the contract had expired on March 6, 1956, and that no work had been performed during the period March 1-6, 1956.

Sincerely yours,

Enclosures

George C. Selfridge
Chairman, Operating Committee

APPROVED:

J. W. Pennington
Member, Bureau of Mines

N. E. Nelson
Member, Geological Survey

SPHOLT/fcc 4/9/56
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
R. W. Holliday, USBM
T. H. Kiilsgaard, USGS

400

March 28, 1956

MEMORANDUM

To: Associate Solicitor, Division of Mineral Resources

From: Iron and Ferro-Alloys Division, DMRA

Subject: Preparation of Termination Agreement
Docket No. DMRA-3546, Tungsten
Mosch and Mosch
Big Cameron Mine
Boulder County, Colorado
Contract No. IdM-2810

Attached is a teletype dated March 26, 1956, received from Mr. Trever, and a teletype prepared here in reply.

It will be appreciated if you will prepare an appropriate termination agreement.

W. S. Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachments

cc: Docket
Code 400

SFHolt/ls

Interior Department
Defense Minerals Exploration
Administration
Uranium (Gl) Revolving Fund, DMA,
Allocation Lending Fund to the
Office of the Secretary)

XXXXXXXXXXXXXXXXXX

TELETYPE MAR 2 9 1956

Mr. V. M. Trover, Executive Officer
DMEA Field Team, Region 3
Rm New Customhouse
Denver 2, Colorado

REFERT MARCH 26, DOCKET 3566, CONTRACT IDM-5816, MOSCH AND MOSCH, KIG CAMERON MINE. PLEASE ADVISE OPERATOR WE ARE PREPARING TERMINATION AGREEMENT HERE. WILL LEAVE EFFECTIVE DATE BLANK FOR YOU TO INSERT.

George C. Selfridge

CHAIRMAN, OPERATING COMMITTEE

SFSELX:fcc
3/28/56
cc to: Docket
Code 400
Admr. Read. File
Operating Comm.
FT. REG. 3 - CONFIRMATION
R. W. Holliday, USBM
T. N. Killaguard, USGS

COPY COPY

BUR MINES DN 235 3-26-56 4-37 PM

CHAIRMAN, OPERATING COMMITTEE, DMEA

RE DOCKET DMEA 3546, CONTRACT IDM-E810, MOSCH AND MOSCH, BIG CAMERON MINE. OPERATOR REQUESTS AND THIS OFFICE CONCURS THAT CONTRACT BE TERMINATED BY MUTUAL AGREEMENT AFTER COMPLETING ONLY 138 FEET OF DRIFTING IN THE SOUTHWESTERLY DIRECTION LEAVING 14 FEET OF DRIFTING INCOMPLETED. NO CERTIFICATION TO BE RECOMMENDED. PLEASE TELETYPE INSTRUCTIONS AS TO HOW WE SHOULD PROCEED IN THE MATTER.

W. M. TRAVER

400 file

DMEA
Date Rec'd
MAR 23 1956
BUREAU OF MINES
Denver, Colorado

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
March 22, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shea
R. H. Herchman

From: R. L. Bolmer and D. R. Maclaren

Subject: DMEA 3546, Contract IAm-2810 (Tungsten), Mesch and Mesch, (Big Cameron mine), Boulder County, Colorado -- Recommendations regarding requested termination of project.

The operator under the subject contract, in a letter to the DMEA Field Team, Region III, dated March 12, 1956, requested that the authorized and nearly completed exploration project at the Big Cameron mine be terminated. The Field Team has asked for our recommendations regarding the matter.

All of the exploration work authorized for the project, with the exception of 14 feet of drifting and 23 assays, had been completed by the end of February, 1956. The final phase of the authorized program provided for 152 feet of drifting southwesterly along the Steel Plate vein on a new 104-foot level off the Big Cameron shaft. The operator has completed 138 feet of the authorized drifting.

The Steel Plate vein, as exposed southwesterly along the 104-foot level, was never a strong or well defined structure and remained barren of all tungsten mineralization. The structure itself began to weaken and split up about 100 feet west of the shaft. Beyond this point, the project heading followed the stronger or footwall branch of the vein. This structure was poorly defined and split again near the present breast of the drift. Each split narrowed to a knife edge and lost its identity among the other fractures in the country rock. The vein remained in schist for its full exposed distance. In the Boulder County tungsten district, schist is a notably poor host rock for ore deposition.

The Steel Plain vein, as exposed continuously along the 104-foot level, is a weak and barren structure within an unfavorable host rock. There is no apparent justification for continuing the project heading on such unpromising prospects. We concur with the operator that further exploration of the structure in this direction is not warranted and recommend that the project be terminated by mutual consent.

R. L. Balmer
Mining Engineer, Bureau of Mines

D. R. Mackaren
D. R. Mackaren
Geologist, Geological Survey

RLB/mr
cc 9
Mac-2810
HHHarshman
Chrono

DMEA
Rec'd
MAR 16 1956
BUREAU OF MINES
Denver, Colorado

5275 Dover St.
Arvada Colo.

March 12, 1956

RECEIVED
APR 23 1956

United States Dept. Of Interior
DMEA Administration

Re: Docket DMEA 3546 (Tungsten)
Contract No. Idm-E8IO

Gentlemen;

DMEA contract work alloted to our Partnership for The Big Cameron Mine is nearly completed. Fourteen feet of south-westerly drifting remains unfinished. In recognizing that this drift has revealed a negligible indication of encouraging mineralization and rock structure, and that it is very costly due to the necessity for its having to be heavily timbered, our Partnership requests the Government to effect its cancelation.

Recently completed drifting north-easterly on the vein from the Big Cameron shaft has opened up a highly mineralized area. Our Partnership seeks to devote full time toward exploration of this portion of the vein.

Very Respectfully Yours,

Hans Mosch
Hans Mosch(Partner)

Alvin Mosch
Alvin Mosch(Partner)

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

400

RECEIVED
SEP - 2 1955

August 29, 1955

224 New Customhouse
Denver 2, Colorado

WSM

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3546, (Tungsten), Contract Idm-E310, Mosch and Mosch, Big Cameron Claim, Boulder County, Colorado

In accordance with your letter of August 22, 1955 on the subject docket enclosed are four copies of the Operator's letter dated August 16, 1955 and four copies of our reply to the Operator.

W. M. TRAVER,

W. M. Traver

Enclosures

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

RECEIVED
SEP 2 1955

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] previous DMEA contract. [illegible] Cold Spring tungsten [illegible]

[illegible] yours,

[illegible]

IMC:ab
cc: Sec. Oper. Comm. (4)
Shaw (2)
Marshman
Docket 3546 Idm--1810
Chron.

5275 Dover St.
Arvada Colorado

August 16, 1955

DMEA
Date Rec'd.

RECEIVED
SEP - 8 1955

AUG 18 1955

BUREAU OF MINES
Denver, Colorado

W.M. Traver
Executive Officer, DMEA
Field Team, Region III

Re: DMEA Docket No. 3546
Contract Idm-E8TO

Dear Sir,

We are interested in consideration given to an amendment for our present exploration contract as stated in your letter dated August II, 1955. We do request this proposed amendment. Recently we surface prospected the northeasterly area of the Steel Plate vein as located from the Big Cameron shaft. About 250 feet northeast of the Big Cameron shaft, we dug an eight foot deep prospect hole and unearthed the Steel Plate vein. The vein as observed in this hole, was highly mineralized, and bore a streak of leached ore-bearing horn rock. Northeasterly and from 30 to 50 feet away from the hole we found bits of tungsten float. The exact portion of the vein which yielded the float is yet unknown to us.

Your letter stated that we need lease the west 300 feet of the Steel Plate No. I Lode Mining Claim, U.S. Survey No. 19632. We consulted our new lease dated March 22, 1955, and found this land to have been leased to us from Cold Springs Tungsten Inc. along with the Big Cameron, Fraction Lode, and The Jack Lode Mining Claim. Our first and oldest lease of the above listed claims did not include the west 300 feet of the Steel Plate No. I Lode Mining Claim. I believe that copies of both leases are in your files, though the former one is now invalid. Perchance I have erred in understanding this matter please, let me know so that I may correct it.

Very Gratefully Yours,

Alvin Joe Mosch

Alvin Joe Mosch
Partner

August 29, 1955

Memorandum

To: The Files

From: George C. Selfridge
Special Assistant

Subject: Docket DMEA-3546, Contract Ida-8000 (Tungsten), Mapah and Mapah, Big Generous Mine, Boulder County, Colorado.

The subject contract was discussed over the telephone today with Mr. Trezer, explaining that it was not the intention of DMEA to participate in work on the Steel Plate claim as suggested in the Region III memorandum dated August 11, 1955. The writer explained to Mr. Trezer what DMEA intended, and that the reference to work on the Steel Plate claim was made only to inform the operator of the subject property that DMEA was not adverse to his doing work on the Steel Plate claim at his own expense. Mr. Trezer was informed that a letter would follow.

George C. Selfridge

George C. Selfridge

GCSelfridge/hb/fw

cc: Docket file
Admr. Read. File
Mr. Mittendorf
F. E. Johnson
Mr. Martin
Mr. Selfridge

400

Mr. W. N. Traver, Executive Officer
DMEA Field Team, Region III
224 New Custom House
Denver 2, Colorado

Re: Docket No. DMEA 3546- Tungsten
Mosch and Mosch
Big Cameron Mine
Boulder County, Colorado
Contract No. Idm-8810

Dear Mr. Traver:

Reference is made to your letter of August 11, 1955, and to a copy of your letter to Mosch and Mosch, of the same date, on the captioned project.

We are sorry to advise that there has been a misapprehension concerning the last paragraph (which you quote) in our letter of July 5, 1955. We assumed that the Operator would probably desire to do some work on the Steele Flats claim at his own expense if he obtained a lease from Cold Spring Tungsten, Inc., and we did not wish to imply that the Government would participate in this work. The intention was to indicate the liability for royalties.

Please advise the Operator of this misapprehension.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

cc: Docket
Code 400
Oper. Comm.
Adm. Reading File
Thor Kiilsgaard, USGS
Robt. Holliday, USBM
FT, Region 3
Code 800
TLChapman/ls
8/17/55

400

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

224 New Customhouse
Denver 2, Colorado

August 11, 1955

Mosch and Mosch
5275 Dover
Arvada, Colorado

Re: DMEA Docket No. 3546
Contract Idm-E810

Gentlemen:

We are wondering if you are still interested in some drifting northeasterly from the Big Cameron shaft on the Steel Plate vein. If you are interested in doing this work now, or at any time during the life of your present contract, consideration would be given to an amendment to provide for this exploration work.

In the event that you should request such an amendment, it would be necessary for you to obtain a lease from Cold Spring Tungsten, Inc. on the west 300 feet of Steel Plate No. 1 Lode Mining Claim, U.S. Survey No. 19632. Cold Spring Tungsten, Inc. would be liable for any royalties due the Government unless these were paid by Mosch and Mosch.

Very truly yours,

W. M. Traver

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

HMC:bh

cc-Ch. Op. Comm. (2)
Harshman
Shaw (2)
Townsend
Subject
Chron.

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AUG 15 1955

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

402

224 New Customhouse
Denver 2, Colorado

August 11, 1955

Memorandum

To: Chairman of the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA-3546 (Tungsten), Contract Idm-E810, Mosch & Mosch, Big Cameron Mine, Boulder County, Colorado

The last paragraph of your letter of July 5, 1955 on the subject docket stated:

> "Incidentally, if the same applicants should obtain from Cold Spring Tungsten, Inc., a lease on the west 300 feet of Steel Plate and should mine this area through the Big Cameron shaft, Cold Spring Tungsten, Inc., would be liable for any royalties due the Government unless these were paid by the subject applicant."

This was not in keeping with our understanding of your letter of February 8, 1955 which in part stated:

> "As Cold Spring Tungsten, Inc. is liable for royalties on any ores mined on the Steel Plate No. 1 claim, we see no advantage to the Government in transferring any part of this claim to another Operator."

Enclosed are four copies of field memoranda recommending drifting on the vein northeast of the shaft.

An amendment to the Operator's lease from Hetzer Mines, dated September 29, 1954, included a lease on the west 300 feet of the Steel Plate No. 1 Lode Mining Claim, U. S. Survey No. 19632. Hetzer Mines have since been merged with and now are a part of Cold Spring Tungsten, Inc.

RECEIVED
AUG 15 1955

We will ask the applicants if they are still interested in drifting northeast from the Big Cameron shaft. If they are interested, we will advise them that consideration would be given to an amendment to allow some drifting in that direction providing they obtain a lease from Gold Spring Tungsten, Inc. on the west 300 feet of Steel Plate No. 1.

W. M. Traver

H. N. Harshman

Enclosures

HMC:pw

cc: Subject
Chron
Shaw (2)
Harshman

JUL 28 1955

BUREAU OF MINES
Denver, Colorado

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
July 28, 1955

Region III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: DMEA 3546, Contract Idm-BK10 (Tungsten), Mesch and Mesch, Big Cameron mine, Boulder County, Colorado

Reference is made to the letter from the Chairman of the Operating Committee dated July 5, 1955, explaining why a contract was prepared on docket DMEA 3546. We do not see anything in any of the quotations in the letter which would justify preparing a contract for drifting southwest along the Steel Plate vein. The fact that the Bureau engineer stated that the Steel Plate vein is strong and well defined is not sufficient justification for a contract.

The early recommendations for a contract were based on the premise that drifting would be northeast and southwest. Subsequent to these recommendations the operator did additional underground work and an examination of this work resulted in Belmer making the following statement in his memorandum dated April 18, 1955, "The southwest exploration of the vein on the Big Cameron mine is not considered of sufficient merit to justify the previously recommended project." We believe that this statement alone should be sufficient to indicate to the Washington office that a contract should not be prepared without further discussion with the Field office.

John F. Shaw
John F. Shaw
Supervising Mining Engineer

cc 9
KKMarshman
BK10
Chron

JFS/em

DMEA
Date Rec'd.

AUG 10 1955

BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration

July 15, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman

Subject: Comments on letter from the Chairman of the Operating Committee as requested in your memorandum dated July 13, 1955. Docket DMEA 3546

The last paragraph of the Chairman's letter states: "--if the same applicants should obtain a lease on the west 300 feet of the Steel Plate---Cold Spring Tungsten, Inc. would be liable for any royalties due the Government---". Belmer's report of January, 1955 states on page 4 that "---the applicants are lessees of the---West 300 feet of the Steel Plate No. 1 claim---". If it was not necessary to transfer subordination of the west 300 feet of the Steel Plate to Brown, Mosch, and Mosch, it seems to me that a contract, as recommended in the original report, should have been drawn up. Our mistaken understanding that such a transfer was necessary and could not be made, thus ruling out the most promising area for exploration, compelled us to change our recommendation from approval to denial.

If the applicant has not dropped the lease on the west 300 feet of the Cold Spring, I suggest that the contract be amended to allow 200 feet of drifting northeast and/or southwest of the shaft, the relative amount of drifting in each direction to be determined as the work progresses.

MacLaren's memorandum on Docket DMEA 3546, dated April 12, 1955, contains the following paragraph justifying his recommendation for denial: "The meager evidence upon which these conclusions and recommendations were based (in his original report), suggest that the most likely target area extended from 35 or 40 feet southwest of the Big Cameron shaft to about 155 or 160 feet northeast of the shaft. With the west 300 feet of the Steel Plate claim excluded from the exploration area, this favorable zone is reduced to a length of 60 to 69 feet. On the surface the Steel Plate vein can be traced for only about

250 feet to the southwest, then it dies out. The bottom of the Big Cameron shaft and the floor of the existing drift are in gneiss and schist, much less favorable host rocks for the ore than the overlying aplite and granite. Although the operators have shipped 18,157 pounds of sorted ore, containing 1,164.14 pounds of WO_3 from a small stope above the drift southwest of the shaft, no ore was found in the drift floor or in the breast of the drift." In my letter of transmittal, accompanying this memorandum, I summarize the above: "MacLaren concludes that the loss of the western 300 feet of the Steel Plate claim has adversely affected the chance of making a significant discovery and recommends----."

E. N. Harshman

E. N. Harshman
Member, Field Team

ENHarshman:dr

400

JUL - 5 1955

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Custom House
Denver 2, Colorado

Re: Docket No. DMEA 3543 - Tungsten
Mosch and Mosch
Big Cameron Mine
Boulder County, Colorado

Dear Mr. Traver:

Reference is made to your letter of June 9, 1955, and our wire of June 16, 1955, concerning the captioned proposed contract.

On October 25, 1954, we received the application of Brown, Mosch and Mosch (dated July 26, 1954) for a DMEA loan on the Big Cameron claim. Possibly as a result of some suggestion that they include additional ground in their application, the applicants obtained and sent to you on September 30, 1954, leases on two additional claims and the west 300 feet of the Steel Plate No. 1 claim, which was then under lease to Cold Spring and had been included in our Cold Spring contract No. Iam-E54 (Docket No. DMEA 1447).

The conclusions of R. L. Bolmer, Mining Engineer, in a report received January 27, 1955, were as follows:

> "The Steel Plate vein is a strong and well defined structure occurring within a highly productive area of the Boulder tungsten district. The vein itself has had a small production from shallow workings along its outcrop, but is relatively unexplored in the vicinity of the Big Cameron shaft. The formation, in which the present development off the shaft occurs, is not too favorable a host rock for ore deposition but more favorable host rocks outcrop in the immediate vicinity. Should the vein enter such rocks, the chances of it making ore in significant quantities is considered promising. . . "

All the work referred to above is in the Big Cameron claim and ore has been mined from this area.

In the report of D. R. MacLaren, Geologist, received January 27, 1955, the following recommendations are made:

"It is recommended that a program to deepen the Big Cameron shaft 50 feet and to drift 200 feet from the bottom of the shaft or the bottom of the ore, whichever comes first, be approved. The relative amount of drifting northeast and southwest will have to be determined as the work progresses."

Similarly, in the second paragraph of your letter of December 9, 1954, you advised us as follows:

"Bolmer concludes the Steel Plate vein is strong, well defined, and is in a favorable area. Some production has been made where it occurs in less receptive host rocks, and there is a possibility, as indicated by surface outcrops, of its entering a more favorable host rock formation. In this event, it could conceivably make a significant body of tungsten ore."

Up to that time, all your reports that had reached us recommended a contract, including the west 300 feet of the Steel Plate No. 1 claim, but it seems that most of the references to ore apply to the Big Cameron shaft and the drift on the 50-foot level.

In the second paragraph of our letter to you of February 8, 1955, we therefore advised as follows:

'As Cold Spring Tungsten, Inc., is liable for royalties on any ores mined from the Steel Plate No. 1 claim, we see no advantage to the Government in transferring any part of this claim to another operator.

"We will, however, consider an application for a small exploration project on the Big Cameron claim if Brown, Mosch and Mosch care to apply. The Big Cameron shaft is close to the end line of the same-named claim; and if ore should be mined from the Steel Plate No. 1 claim and extracted through the Big Cameron shaft, Cold Spring Tungsten, Inc., would then be liable to the Government for payment of the royalty, either directly or by the lessee.

"We suggest that you ascertain the applicant's reaction to the foregoing."

Your letter to Brown, Mosch and Mosch, dated February 11, 1955, stated:

"Our Washington office advises that they would give consideration to an exploration project on the Big Cameron claim southwest of the Big Cameron shaft. The Steel Plate No. 1 claim is approximately 25 feet north and east of the Big Cameron shaft and has been subordinated to the Government under another DMEA pro-project.

"Would your partnership be interested in confining your exploration work on the vein southwest of the Big Cameron shaft? If so, will you please forward this office four copies of an amended application indicating the amount and kind of work you would choose to do in a southwesterly direction from the Big Cameron shaft."

Thus it would appear that, inasmuch as your office then had all the necessary data, recommending a denial would have been better policy, rather than leading the applicant to believe we might make a contract on the above-stated basis.

Your memorandum of March 25, 1955, moreover, recommended that the application be held active for at least an additional 30 days, and your memorandum of March 28 advised that the applicants had made three shipments of ore from the 50-foot level of the Big Cameron shaft and were continuing stoping operations.

Consequently, we were surprised when we received the memorandums of D. R. MacLaren, dated April 11, 1955, of E. N. Harshman, dated April 12, 1955, and of R. L. Bolmer, dated April 18, 1955, all recommending denial. Under these circumstances, we decided that a contract would be more appropriate than a denial, and we believe that after reviewing the entire docket, you will agree with us.

Incidentally, if the same applicants should obtain from Cold Spring Tungsten, Inc., a lease on the west 300 feet of the Steel Plate and should mine this area through the Big Cameron shaft, Cold Spring Tungsten, Inc., would be liable for any royalties due the Government unless these were paid by the subject applicants.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

cc: Docket
FT, Region 3
Code 400
Adm. Read. File
Thor Kiilsgaard, USGS
Robt. Holliday, USBM
Operating Committee

THChapman/ls
6/30/55

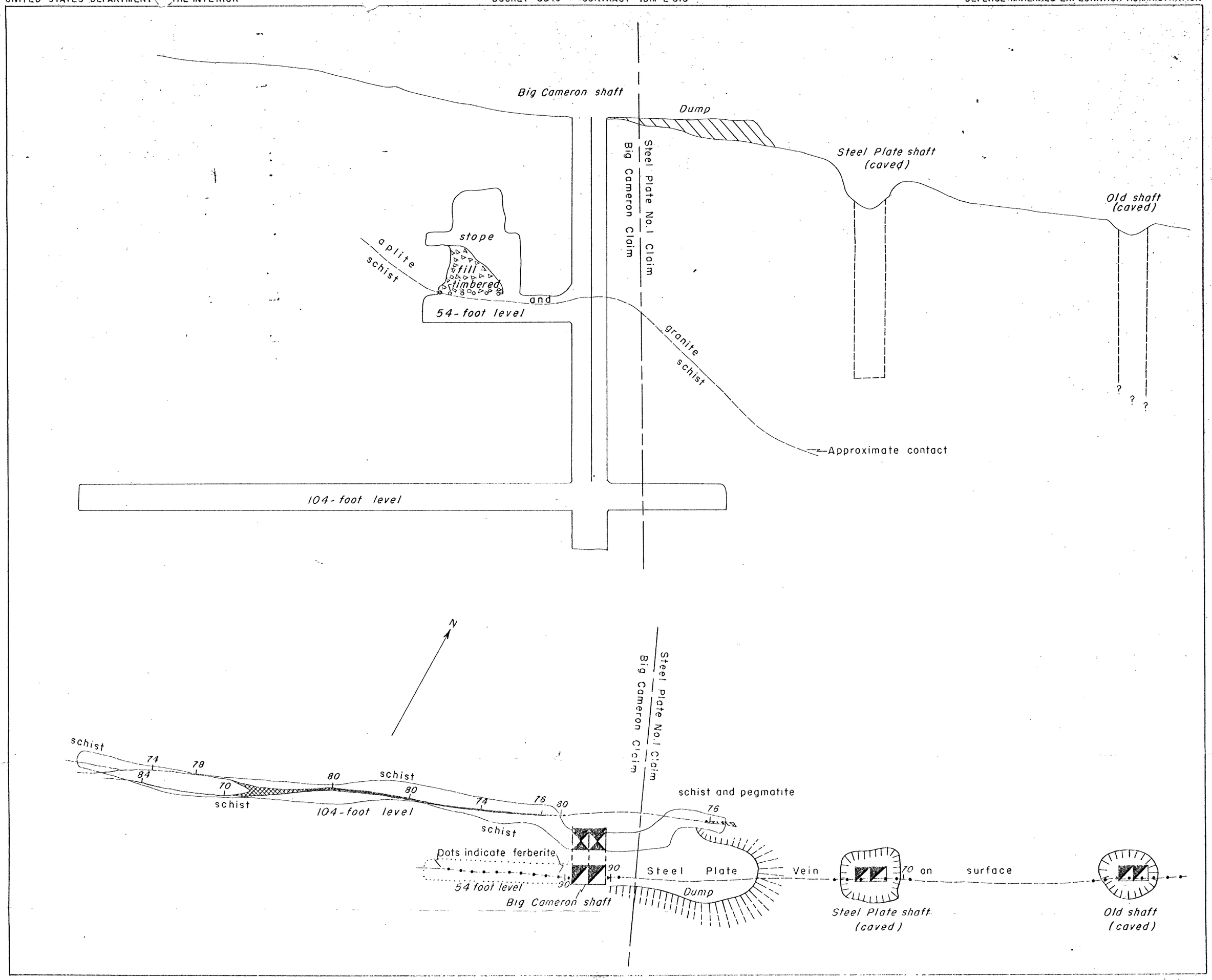

FIGURE 3—COMPOSITE PLAN SHOWING GEOLOGY ON SURFACE AND 104-FOOT LEVEL, AND VERTICAL PROJECTION ALONG THE STEEL PLATE VEIN. BIG CAMERON MINE, BOULDER COUNTY, COLORADO.