For Certificate of Deposit No. 21, dated August 26, 1954, giving royalty repayment of $3.09, see E-53.

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 21 1954

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Lloyd P. Mock
1440 St. Paul Street
Denver 6, Colorado

pertaining to Exploration Project Contract No. Idm-E654, Docket No. DMEA 3182, including Amendments Nos. 1 and 2, for the months of April, 1954, to September, 1954, inclusive, covering a project for the exploration of Tungsten on property known as Mock Shaft Big 6 Mine located in Boulder County, Colorado, near Nederland.

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, conference with the Executive Officer, DMEA Field Team, Region IV, 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 reasons:

All costs claimed are under a contract provision for contribution by the Government on the basis of agreed estimated costs of units of work actually performed.

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

Total costs as billed by contractor:		$8,902.00
Exceptions:		
By DMEA Finance Officer	None	
Herewith	None	None
Total Accepted Cost		$8,902.00

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 Six Thousand Six Hundred Seventy Six and 50/100ths Dollars

- $6,676.50 -

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.

Date: December 15, 1954

Donald T. Finch

Donald T. Finch, Auditor

DEC 23 1954

Mr. Donald T. Finch
DMEA Auditor
224 New Customhouse
Denver 2, Colorado

Re: [illegible], DMEA-3182
Lloyd F. Nash
and
[illegible], DMEA-3179
Thomas J. & Dorothy A. Mahoney

Dear Mr. Finch:

Receipt is acknowledged of the copies of your Reports of Review covering the above-cited contracts.

The Reports are acceptable and normal distribution may be effected.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

AMAlley/mma
December 22, 1954

Copy to: Docket
Admr. Reading File
Mr. Chambers

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 16 1954

224 New Customhouse
Denver 2, Colorado

December 16, 1954

Memorandum

To: T. A. Christenson

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 3182 (Tungsten), Contract Idm-E654, Lloyd P. Mock (Mock Shaft) Boulder, County, Colorado. FINAL PAYMENT

Reference is made to our memorandum of September 27, 1954, whereby we transmitted the Operator's final Form MF-104, Operator's Monthly Report and Voucher for the month of September 1954, and instructed you to withhold the amount of $100.00 from reimbursement to the Operator pending receipt of the Operator's Final Report and release of the Final Report of Review by the Contract Administration and Audit Division.

The Operator's Final Report is now on file in this office and we now 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 December 15, 1954:

Basis for Final Payment

Total accepted cost	$8,902.00
Government participation at 75%	6,676.50
Total prior payments	6,576.50
Balance due the Operator	$ 100.00

W. H. King

Pay $100.00
Randel R. Cooper
Randel R. Cooper
Authorized Certifying Officer
DMA-JT-42
12-17-54

JWT:dm
cc: Sec. to Oper. Comm. (2)
Subject
WMTraver
JWTownsend
Chron

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

224 New Customhouse
Denver 2, Colorado

January 5, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3182 (Tungsten), Contract Idm-E654, Lloyd P. Mock (Mock Shaft), Boulder County, Colorado

Enclosed are two copies of a memorandum to T.A. Christensen dated December 16, 1954 relative to final payment under the terms of the subject contract.

Final payment to the operator in the amount of $100.00 has now been made in conformance with the Report of Review by the Contract Administration and Audit Division dated December 15, 1954.

W. H. King

Encls.

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

Budget Bureau No. 42-R1036.5

RECEIVED
OCT 21 1954

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

Month of September, 1954 Docket No. DMEA 3182 Contract No. Idm - E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, Colorado
Contract Amount, $ 8902 Government Participation: 75 % Amount, $ 6676.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting	999	1,961	2,960			
Sinking	-	5,092	5,092			
(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.	-	850	850			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	999	7,903	8,902	999.00	7903.00	8902.00

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

Date Sept. 21, 1954 Payee Lloyd P. Mock

Per _____ Title _____

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

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

(Instructions on reverse)

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

* $ 649.25

Signature Randell R. Cooper
(Authorized Certifying Officer)

Date 10-11-54 Vou. No. DMA-55-21
(See other side)

* 100.00 withheld pending receipt of final report

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-654 in accordance with the terms of the contract.

Signature R. Bolney, $749.25 Wmt Title Mining Engineer Date SEP 22 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R. D.B.

Signature W. H. Kerr Title Executive Officer Date SEP 27 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

OCT 21 1954

Month of September 1954 Docket No. DMEA3182 Contract No. Idm-E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, 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	ft	999	27	2,960	80	37	80	37
Crosscutting								
Raising								
Shafts	ft	-	-	5,092	67	76	67	76
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		999	27	8,052				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		-	-	850				
TOTAL COSTS		999		8,902				

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. 21, 1954 Operator Lloyd P. Mock

Per Title

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

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

OCT 21 1954

Administrative Audit Difference Statement

Date: _____
Payee's Reference: September, 1954

Lloyd P. Cook
1440 St. Paul St.
Denver 6, Colorado

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

Amount Claimed $ 999.00

Difference $ _____

Amount Approved 753 719.85
100.00

The reason for the difference was due to:

$100.00 withheld pending receipt of Final Report

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

Very sincerely yours,

N.E.Stokes
Audit Section

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

224 New Customhouse
Denver 2, Colorado

September 27, 1954

Memorandum

To: T.A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 3182 (Tungsten), Contract Ida-2654, Lloyd P. Mock (Mock Shaft), Boulder County, Colorado, Operator's Monthly Progress Report for the period September 1954.

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 per cent of the amount reported by the Operator on Form MF-104, contingent on your verification of arithmetical accuracy within the report.

An amount of $100.00 is to be withheld from the payment due the operator pending receipt of the Operator's Final Report and release of the Final Report of Review by the Contract Administration and Audit Division.

Remarks:

Date of Report	September 21, 1954
Date Received in Field Office	September 22, 1954
Date Received in Region Office	September 24, 1954

W. E. King

Enclosures

cc Subject
Chron
Secretary, Oper. Comm. (2)
WMTraver
JWTownsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 23, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3182, contract Idm-E654 (Tungsten) Lloyd F. Mock (Mock shaft) Boulder County, Colorado - Progress report for September 1954

Enclosed are the original and four copies of the subject progress report, the sixth--forms MF-104 and MF-104A, with narrative--and the original and six copies of R. L. Bolmer's memorandum covering his inspection of the underground progress and checking of the reporting forms. The contract is unit cost on short form MF-200(A) and no documentation is required.

Bolmer inspected the project on September 16, 1954, in reference to the contractor's request for an amendment to permit additional work and funds for that purpose. At that time, he verified the progress as reported in the operator's narrative for September and claimed on the MF-104A forms. This consisted of 27 feet of advance of a level at a depth of 50 feet below the collar of the Mock shaft to the north as authorized by the Region IV Field Team. The work was in conformance with the terms of and completes the contract.

Payment is approved and certified on the MF-104 forms of $749.25 or 75 percent of the total $999.00 claimed by the contractor.

It is assumed you will hold up payment of 10 percent of this last voucher pending receipt of the required reports. We will make out our final engineering report when you instruct us to do so.

W. M. Traver

W. M. Traver

enclosures

cc 4
E654
DMEA Chron.

WMT/pam

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 23, 1954

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMMA 3182, contract I4m-2654 (Tungsten) Lloyd P. Mock (Mock shaft) Boulder County, Colorado - Progress report for September 1954

The progress reported for this period under the subject short-form contract--drifting a total distance of 27 feet north on the vein at a depth of 51 feet in the shaft--was varified during an inspection of the property September 16, 1954. The inspection was made with D. H. Maclaren of the Geological Survey and in the company of the operator.

The progress reported this period completes the exploration program authorized under the subject contract. A request by the operator for Government assistance in certain additional exploration work under the contract has been recommended for denial. The completion date of the authorized work may be considered as the date of the final inspection. Contract work has not resulted in a significant discovery of tungsten ore and it is probable that a certification will not be recommended for this project.

The most promising exposure of the vein on the northeast side of the shaft occurred at a depth of some 50 feet and the operator was permitted to expend the remaining 27 feet of drift at this location. The vein structure exposed in this direction was about 3 feet in width and contained very scattered and discontinuous seams of ferberite. The seams of mineral, individually, were very thin and were disseminated both within the structure itself and for short distances into its hanging wall. While the mineralization encountered along this drift was stronger than had been encountered elsewhere, under no circumstances could it be considered of commercial grade.

The $999.00 total costs reported this period on the operator's MF-104 forms--equivalent to the completed 27 feet of drifting at the agreed upon unit price of $37.00 per foot--are approved. Payment to the operator of 75 percent of the total approved amount, or $749.25, is recommended. Probably some portion of this final payment under the contract should be withheld pending receipt of the operator's final project report.

Under this contract, the operator constructed a headframe and a hoist house in which the Government participated to the extent of $187.50

and $375.00, respectively. Neither structure has any appreciable salvage value and is of value only if left in its present location and if operations are continued in the Mock shaft. Short-form contracts, those prepared on form MF-200(A), contain no provisions for the salvage of such facilities and it is assumed, therefore, that the operator will not be required to sell or otherwise liquidate this property for the joint account of himself and the Government.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

cc 6
E654
DMMA Chron.

RLB/pam

NARRATIVE REPORT
FOR SEPTEMBER

September 21, 1954

During the month of September, the work was completed on contract Idm. - E654. The final 27 feet of drifting to the north or uphill side was done. There are numerous feeders of tungsten all the way in this drift, and in the heading there are probably eighteen or twenty feeders of high grade ore from hairline to about one-quarter inches in width.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 22 1954

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 1954 Docket No. DMEA 3182 Contract No. Idm - E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, Colorado
Contract Amount, $ 8,902 Government Participation: 75 % Amount, $ 6,676.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting	1,961	-	1,961			
Sinking	570	4,522	5,092			
(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.	-	850	850			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,531	5,372	7,903	2531.00	5372.00	7903.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 9/3/54 *Payee Lloyd P Mock

Per _____ Title _____

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

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

(Instructions on reverse)

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

$ 1898.25

Signature Randell R. Cooper
(Authorized Certifying Officer)

Date 9-17-54 Vou. No. DMA-55-12
(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. E654 in accordance with the terms of the contract.

Signature L. L. Palmer, #1898.25 NM Title Mining Engineer Date SEP 10 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R.D.B.

Signature for W. H. King Title Executive Officer Date SEP 15 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 22 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1954 Docket No. DMEA 3182 Contract No. Idm - E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, 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	ft	1,961	53	1,961	53	37	80	37
Crosscutting								
Raising								
Shafts	ft	570	7 1/2	5,092	67	76	67	76
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		2,531	60 1/2	7,053				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		-	-	850				850
TOTAL COSTS		2,531		7,903				850

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

Date 9/3/54 Operator Lloyd P. Mock

Per Title

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 22 1954

224 New Customhouse
Denver 2, Colorado

September 15, 1954

Memorandum

To: D. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 3182 (Tungsten), Contract Idm-E654, Lloyd P. Mock (Mock Shaft), Boulder County, Colorado. Operator's Monthly Progress Report for the period August, 1954.

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 per cent 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	Sept. 3, 1954
Date Received in Field Office	Sept. 7, 1954
Date Received in Region Office	Sept. 14, 1954

John F. Shaw
John F. Shaw
For W. H. King

Enclosures

RDB:mb

cc: Contract
Secretary, Oper. Comm. (2)
WMTraver
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
September 13, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3182, Contract Idm-E654 (Tungsten), Lloyd P. Mock (Mock shaft), Boulder County, Colo.--Progress report for August 1954

Enclosed are the original and four copies of the subject progress report, the fifth--forms MF-104 and MF-104A, with narrative--and the original and six copies of R. L. Bolmer's memorandum covering his inspection of underground progress and checking of the reporting forms. The contract is unit cost on short form MF-200(A) and no documentation is required.

The progress, correctly reported in the narrative and entered on the MF-104A forms, comprised sinking the Mock shaft an additional 7.5 feet, or to a depth of 98.5 feet below the collar, and drifting on the 88-foot level, or at the bottom of mineralization to the southwest from the shaft, a distance of 53.0 feet. This was in accordance with Stage I and II of the contract. The narrative and the inspecting engineer's covering memorandum adequately describe the physical conditions encountered and definitely the vein southwest from the shaft on the 88-foot level contains no mineral of commercial grade.

Payment is recommended and certified on the MF-104 forms of $1,898.25, or 75 percent of the total $2,531.00 claimed by the operator.

W. M. Traver

enclosures

WMT/kp

cc 4
E654
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 22 1954

Region IV

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
September 10, 1954

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 3182, Contract Idm-8654 (Tungsten), Lloyd F. Mock (Mock shaft), Boulder County, Colo.--Progress report for August 1954

Progress reported this period under the subject short-form contract--sinking the Mock shaft an additional 7.5 feet on the vein to a total depth of 98.5 feet below the surface and drifting a total distance of 53.0 feet south on the vein at a depth of 88 feet in the shaft--was confirmed during an inspection of the property September 2, 1954.

The vein exposed by shaft sinking this period continued to flatten. At the bottom of the shaft, the structure dips only 46° and generally has weakened. The structure also flattens towards the south along the new 88-foot level. Some 20 feet south on this level, the structure dips about 45°; beyond this point it flattens rapidly, dipping only 16° in the far end of the drift. The vein exposed along the south drift is strong enough--about 1 foot of horn quartz and gouge--but it contains only small, discontinuous seams and patches of ferberite. Much of the tungsten mineralization contains high percentages of hematite; none of the mineral is of commercial grade.

The operator recently was given permission to drift south on the vein from a point approximately 85 feet below the collar of the shaft. The extent of this work was dependent upon the conditions encountered therein. Any of the authorized 80 feet of drift not expended south of the shaft could be performed on the vein to the north of the shaft. The extent of drifting in either direction within the total allowable footage was subject to mutual agreement between the operator and the Government.

Considering the unfavorable conditions encountered by the 53 feet of drift then completed south of the shaft, the operator was advised

by the inspecting engineer to proceed no farther in that direction. It was suggested to the operator that the unexpended footage (27 feet of drift) might be used to advantage by drifting north on the vein at a depth of between 30 and 60 feet in the shaft. The operator, however, was cautioned that he first must secure official approval for such work from the Region IV Field Team.

The $2,331.00 total costs reported for the period on the operator's MF-104 forms--equivalent to the completed 7.5 feet of sinking and 53.0 feet of drifting at the agreed upon unit prices of $76.00 and $37.00 per foot, respectively--are approved. Payment to the operator of 75 percent of these total reported costs, or $1,748.25, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/mg

cc /6
M54
Chron

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 22 1954

NARRATIVE REPORT
FOR AUGUST

September 3, 1954

During the month of August we finished the remaining 7 1/2 feet of sinking, and upon the advice of field team, returned to 88 feet where we started a drift on the vein in a southerly direction.

Have encountered some ore of good quality but thin in the 53 feet completed - but nothing of commercial value. The heading is making considerable water.

In this 53 feet, the structure has changed continuously back and forth from a straight vein with the schist disappearing to a flat with the schist coming in.

Fo[illegible] (Rev.)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1954 Docket No. DMEA 3182 Contract No. Idm-E654
Operator's Name Floyd P. Mock Minerals Tungsten
Address Midland, Colorado
Contract Amount, $ 8902 Government Participation: 75 % Amount, $ 6676.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
Sinking	1824	2698	4522			
(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.	–	850	850			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1824	3548	5372			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 7/31/54 *Payee Floyd P. Mock

Per _____ Title _____

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

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

(Instructions on reverse)

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

$ 1368.00

Signature Randell R. Cooper
(Authorized Certifying Officer)

Date 8-12-54 Vou. No. DMA-55-11
(See other side)

Defense Minerals Administration
AUG 25 1954

(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-654 in accordance with the terms of the contract.

Signature R. L. Bolmer, $1,368.00 Title Mining Engineer Date AUG - 9 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. H. King Title Executive Officer Date AUG 10 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

104A
62)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1955 Docket No. DMEA 3182 Contract No. Idm-E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland 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								
Crosscutting								
Raising								
Shafts	ft.	1824	24	4522	59½	76	67	76
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1824	24	4522				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				850				850
TOTAL COSTS		1824		5372				850

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

Date 7/31/54 Operator Lloyd P. Mock

Per ..... Title .....

REMARKS:

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

(Instructions on reverse)

(For Government use only)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 25 1954

INSTRUCTIONS

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

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

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

GPO 83-38475

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

224 New Customhouse
Denver 2, Colorado

August 10, 1954

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 3182, Contract Idm-E654 (Tungsten), Lloyd P. Mock, Boulder County, Colorado - Operator's Monthly Progress Report for the month of July 1954

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 Operator's Report.....July 31, 1954
Date report received in B.O.M. Branch office..August 2, 1954
Date report received in Regional Office.....August 10, 1954

W. H. King

JWT:jp

Enclosures

cc Contract
Chron
Sec. to Oper. Comm. (2)
WMTraver

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
August 9, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3182, Contract Idm-8654 (Tungsten), Lloyd P. Mock (Mock shaft), Boulder County, Colo.--Progress report for July 1954

Enclosed are the original and four copies of the subject progress report, the fourth one--forms MF-104 and MF-104A, with narrative--and the original and six copies of R. L. Bolmer's memorandum covering his inspection of the shaft sinking progress and checking of the reporting forms. The contract is unit cost on short form MF-200(A) and documentation is not required.

Bolmer confirmed the month's progress sinking the Mock shaft 24 feet for a total depth of 91 feet below the collar on July 30, 1954. The operator has reported the advance correctly in his narrative and made the proper entries on both reporting forms. Work was performed in accordance with the terms of the contract. The engineer describes satisfactorily the conditions encountered in the shaft sinking as does the operator in his narrative.

We are advised that as of this date the total shaft sinking allowed has been completed and the contractor has notified you he is prepared to start drifting. This has been recommended by the field only to the southwest on a level to be established at approximately 85 feet below the collar and is subject to inspection and termination at any time.

Payment is approved and certified on the MF-104 forms of $1,368.00, or 75 percent of the total $1,824.00 claimed by the contractor.

L. W. Everett, for
W. M. Traver

enclosures

WMT/kp

cc 4
8654
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
August 9, 1954

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 3182, Contract Idm-8654 (Tungsten), Lloyd F. Mock (Mock shaft), Boulder County, Colo.--Progress report for July 1954

Progress reported this period under the subject short-form contract--sinking the Mock shaft an additional 24 feet to a total depth of 91 feet below the collar--was confirmed during an inspection of the property July 30, 1954.

The vein exposed during the period gradually flattened, dipping nearly 58° in the lower sections of the shaft. Its exposure in the lower southwesterly side of the shaft essentially is unchanged from its appearance nearer the surface. In this location, the structure consists of about 2 feet of quartz and gouge which contain minor blebs and streaks of ferberite. On the lower northeasterly side of the shaft, the structure is represented by two well-defined but narrow fault surfaces bordering inclusions of schist and a light-colored dike rock. No mineralization was observed on the structure in this direction.

The ferberite encountered on the vein to the present depth of the shaft generally has not been of ore grade. The contract, however, provides for deepening the shaft by sinking an additional 67 feet or to the bottom of the ferberite mineralization. As the structure yet is mineralized on the one side of the shaft to its present depth, the operator was advised to complete the remaining 7-1/2 feet of sinking authorized under Stage I. Drifting northeasterly on the vein from the lower sections of the shaft is not advisable. Drifting southwesterly, however, appears warranted but, considering the apparent flattening and general weakening of the structure with depth, probably should not be started lower than 85 feet below the collar.

The $1,824.00 total costs reported for the period on the operator's MF-164 forms--equivalent to the completed 24 feet of shaft sinking at the agreed unit price of $76.00 per foot--are approved. Payment of 75 percent of this amount, or $1,368.00, is recommended.

R. L. Bolmer
R. L. Bolmer
Mining Engineer

RLB/hp
cc/6, 1654, Chron

3182 Idm-E654

Narrative Report
for July, 1954

During the month of July continued sinking for 24 more feet and encountered continuation of broken-up area during this work. The vein has narrowed considerably but still has a showing of ore. Still have a great deal of water entering from the south or downhill side.

Several indications have been noted of slippages of ground indicating a movement of the ground to the south; and at 90 feet a slip to the northeast occurred which leaves me rather puzzled as to what took place.

There have been two intrusions of green porphyry from the foot wall - one in the center of the shaft and one from the south end. Both are carrying stringers of fairly well-developed ore.

We anticipate reaching the 100-foot mark the beginning of the week and will contact you at that time for further instructions

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

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

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

Month of June, 1954 Docket No. DMEA 3182 Contract No. Idm-E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, Colorado
Contract Amount, $ 8,902 Government Participation: 75 % Amount, $ 6,676.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
Sinking	1596	1102	2698			
(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.		850	850			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1596	1952	3548	1596.00	1952.00	3548.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date July 7, 1954 *Payee Lloyd P. Mock

Per _____ Title _____

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

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

(Instructions on reverse)

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

$ 1197.00

Signature [illegible]
(Authorized Certifying Officer)

Date 7/15/54 Vou. No. DMA 55-5

(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-654 in accordance with the terms of the contract.

Signature R. L. Bolmer, $1,197.00 Title Mining Engineer Date JUL - 8 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R.D.B.

Signature W H King Title Executive Officer Date JUL 14 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1954 Docket No. DMEA 3182 Contract No. Idm-E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, 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								
Crosscutting								
Raising								
Shafts	ft.	1596	21	2698	35 1/2	76	67	76
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS		1596	21	2698				
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				850				850
TOTAL COSTS		1596		3548				850

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

Date July 7, 1954 Operator Lloyd P. Mock

Per _____ Title _____

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

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

224 New Customhouse
Denver 2, Colorado

July 14, 1954.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 3182 (Tungsten), Contract Idm-E654, Lloyd P. Mock (Mock shaft), Boulder County, Colorado. Operator's Monthly Progress Report for the period June 1954.

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 per cent 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	July 7, 1954.
Date Received in Field Office	July 8, 1954.
Date Received in Region Office	July 13, 1954.

W H King
W. H. King

Enclosures

RDB:cwm

cc: Contract
Secretary to the Oper. Comm.(2)
WMTraver
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 13, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3182, contract Idm-E654 (Tungsten) Lloyd P. Mock (Mock shaft), Boulder County, Colorado - Progress report for June 1954

Enclosed are the original and four copies of the subject progress report, the third one--forms MF-104 and MF-104A, with narrative--and the original and six copies of R. L. Bolmer's memorandum covering his inspection of the shaft sinking progress and checking of the reporting forms. The contract is unit cost on short form MF-200(A) and documentation is not required.

Bolmer verifies by inspection and measurement the total depth of the Mock shaft as of June 30 as 67 feet below the new collar for a total advance of 35-1/2 feet or of 21 feet for the month of June. These units are corrected shown on the MF-104A forms but are not reported in the narrative. The entries and extensions are correct on both reporting forms and work was performed in accordance with terms of the contract. The inspecting engineer explains the physical conditions encountered during the month's progress.

Payment is approved and certified on the MF-104 forms of $1,197.00 or 75 percent of the total $1,596.00 claimed by the contractor.

Floyd D. Everett

Floyd D. Everett, for
W. M. Traver

enclosures

cc 4
E654
DMEA Chron

WMT/pam

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 8, 1954

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 3182, contract Idm-E654 (Tungsten), Lloyd F. Mock (Mock shaft), Boulder County, Colorado - Progress report for June 1954

Progress reported this period under the subject short-form contract--sinking the Mock shaft a total of 21 feet to a depth of 67 feet below the new collar--was confirmed during an inspection of the property July 6, 1954.

The vein exposed during the reporting period continued in much the same manner as was discussed previously. Twelve to 18 inches of massive white quartz are exposed on the eastern or hanging wall of the shaft. The footwall of the structure is schist and gneiss. Near the bottom of the shaft, the vein contains 4 to 5 inches of dark horn quartz and scattered streaks and patches of ferberite. Overbreak into the hanging wall disclosed irregular patches of mineral continuing in the vein beyond the normal cross section of the shaft. More information would be obtained from the exploration work if the shaft were being sunk more centrally on the structure rather than in its footwall. The mineral encountered in the sinking operation is sorted and cobbed from the waste rock and stockpiled.

The $1,596.00 total costs reported for the period on the operator's MF-134 forms--equivalent to the completed 21 feet of shaft sinking at the agreed unit cost of $76.00 per foot--are approved. Payment of 75 percent of this amount, or $1,197.00 is recommended.

R. L. Bolmer
Mining Engineer

cc
E654
DMEA Chron

RLB/pam

NARRATIVE REPORT
FOR JUNE, 1954

DMEA 3182
Idm-E654

July 7, 1954

Work has progressed very smoothly. There have been only several very minor delays. The blower motor broke down, but was easily and rapidly repaired. We are getting a lot of water and I think our pump has about reached its capacity. I have a larger pump located which I can purchase if the water and depth get to be too much for the one I have.

A horse or intrusion has appeared in the shaft. It came in on the downhill or south side of the shaft and stretches about halfway across the shaft. It doesn't look like it will amount to much. It has split the vein, but the vein is still strong on the hanging wall side. The ground is quite broken now and the ore is spotty, but what there is of it is higher grade than previously.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1954 Docket No. DMEA 3182 Contract No. Idm-654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, Colorado
Contract Amount, $ 8902.00 Government Participation: 75 % Amount, $ 6676.00

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) ~~xxxxxxxx~~ Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
Sinking 14 1/2 ft.	1102	-	1102			
(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.	-	850	850			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1102	850	1952	1102.00	850.00	1952.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 6/7/54 *Payee Lloyd P. Mock

Per _____ Title _____

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

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

(Instructions on reverse)

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

$ 826.50

Signature _____
(Authorized Certifying Officer)

Date 6/14/54 Vou. No. DMA 54-134
(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. 5-654 in accordance with the terms of the contract.

Signature H. L. Bolner, $826.50 WMT Title Mining Engineer Date JUN - 9 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R. S. B.

Signature W. H. King Title Executive Officer Date JUN 14 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 195 4 Docket No. DMEA 3182 Contract No. Idm-E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, 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								
Crosscutting								
Raising								
Shafts	ft	1102	14 1/2	1102	14 1/2	76	67	76
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		1102	14 1/2	1102				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		—	—	850				850
Total Costs		1102	[illegible]	1952				~~850~~ 8902.00

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

Date 6/7/54 Operator Lloyd P. Mock

Per _____ Title _____

Remarks:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

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

224 New Customhouse
Denver 2, Colorado

June 14, 1954.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 3182 (Tungsten), Contract Idm-E654, Lloyd P. Mock (Mock shaft), Boulder County, Colorado. Operator's Monthly Progress Report for the month of May 1954.

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 per cent 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	June 7, 1954.
Date Received in Field Office	June 9, 1954.
Date Received in Region Office	June 11, 1954.

W. H. King

Enclosures

RDB:cwm

cc: Contract
Secretary to the Oper. Comm. (2)
WMTraver
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
June 10, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3182, Contract Idm-E654 (Tungsten), Lloyd P. Mock (Mock shaft), Boulder County, Colo.--Progress report for May 1954

Enclosed are the original and four copies of the subject progress report, the second one--forms MF-104 and MF-104A with narrative--and the original and six copies of R. L. Bolmer's memorandum covering his inspection of the shaft sinking progress and checking of the reporting forms. The contract is unit cost on short form MF-200(A) and documentation is not required.

Bolmer on his inspection made June 3, 1954, verified the advance of 14-1/2 feet sinking the Mock shaft as reported in the operator's narrative and entered on the MF-104A forms. Entries and extensions on both reporting forms are correct and work was performed in accordance with the last item of Stage I of the contract. The narrative by the operator and covering memorandum by the inspecting engineer explain satisfactorily the conditions encountered during the reporting period.

Payment is approved and certified on the MF-104 forms of $826.50, or 75 percent of the total $1,102.00 claimed by the contractor.

W. M. Traver

W. M. Traver

enclosures

WMT/kp

cc 4
E654
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
June 9, 1954

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 3182, Contract Idm-8654 (Tungsten), Lloyd P. Mock (Mock shaft), Boulder County, Colo.--Progress report for May 1954

Progress reported this period under the subject, short-form contract--sinking the Mock shaft a total of 14-1/2 feet--was confirmed during an inspection of the property June 3, 1954. The operator completed authorized construction of his hoist house, headframe, and shaft collar during April. At that time, the existing depth of the shaft was measured as 31-1/2 feet below the new collar. On the date of the latest inspection, the bottom of the shaft had been deepened to 46 feet below the collar, for a total advance during the May period of 14-1/2 feet. The shaft is timbered to a depth of 29 feet. Due to the water encountered, it is being advanced by benching.

Above a depth of 29 feet in the shaft, the vein is hidden behind side lagging. Below this depth, it flattens in dip to about 66° and forms the hanging wall of the shaft. Its footwall is schist. The total width of the vein structure exposed in the lower, untimbered sections of the shaft is about 2 feet. The full width of the structure may not be exposed. The exposed structure is comprised mostly of quartz. Certain internal zones within the structure carry low-grade, discontinuous ferberite mineralization in the form of a breccia filling. The operator has sorted out and sacked the mineral obtained to date from the sinking operation. While portions of the mineral itself occur in a high-grade crystalline form, most of it appears low-grade and quite siliceous.

The $1,102.00 total costs reported for the period on the operator's MF-104 form--equivalent to the completed 14-1/2 feet of shaft sinking at the agreed unit cost of $76.00 per foot--are approved. Payment to the operator of 75 percent of the total reported amount, or $826.50, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/kp

cc 6, 8654, Chron

NARRATIVE REPORT
FOR MAY, 1954

June 7, 1954

Sinking Shaft

During the month of May the shaft was sunk 14 1/2 feet or a total depth of 47 1/2 feet. Difficulty was encountered because the hanging wall and ore continued to pitch at an angle while the foot wall straightened. No matter where or how the holes were drilled, they broke to the foot wall and the size of the shaft got a little out of hand - meaning, of course, that about twice as much rock had to be moved as would have been necessary had we kept the shaft to normal size.

I believe I have more competent help now, and the shaft is getting trimmed back to size.

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

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

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

Month of April, 1954 Docket No. DMEA 3182 Contract No. Idm. -E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, Colorado
Contract Amount, $ 8902.00 Government Participation: 75% Amount, $ 6676.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
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.	850.00	-	850.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	850.00	-	850.00	850.00	-	850.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 4, 1954 *Payee Lloyd P. Mock

Per _____ Title _____

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

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

(Instructions on reverse)

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

$ 637.50

Signature _____
(Authorized Certifying Officer)

Date 5/10/54 Vou. No. DMA 54-120

(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. 8-654 in accordance with the terms of the contract.

Signature R. L. Bolmer, #637.50 Wmt Title Mining Engineer Date MAY 5 - 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: R.D.B.

Signature W. H. King Title Executive Officer Date MAY 7 1954

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1954 Docket No. DMEA 3182 Contract No. Idm.-E654
Operator's Name Lloyd P. Mock Minerals Tungsten
Address Nederland, 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								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		850.00	3	850.00				850.00
TOTAL COSTS		850.00		850.00				850.00

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 May 4, 1954 Operator Lloyd P. Mock

Per _____ Title _____

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

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

224 New Customhouse
Denver 2, Colorado

May 7, 1954.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 3182 (Tungsten), Contract Idm-E654, Lloyd P. Mock (Mock Shaft), Boulder County, Colorado. Operator's Monthly Progress Report for the period April 1954.

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 per cent 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	May 4, 1954.
Date Received in Field Office	May 5, 1954.
Date Received in Region Office	May 6, 1954.

W. H. King

W. H. King

Enclosures

RDB: cwm

cc: Contract
Secretary to the Oper. Comm. (2)
WMTraver
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 6, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3182 (Tungsten), Contract Idm-E654, Lloyd P. Mock (Mock shaft), Boulder County, Colo.--Progress report for April 1954

Enclosed are the original and four copies of the subject progress report, the initial one--forms MF-104 and MF-104A with narrative--and the original and six copies of R. L. Bolmer's memorandum covering his inspection of the surface construction progress and checking of the reporting forms. The contract is unit cost on short form MF-200(A) and documentation is not required.

Bolmer confirms the surface construction consisting of shaft collar at $100.00, headframe at $250.00, and hoist house at $500.00, or a total of $850.00. This is the correct amount allowed for that work under Stage I of the contract and is properly described in the narrative and entered as "New Buildings, Improvements, etc." on the reporting forms. The inspecting engineer approves the work as having been done satisfactorily and in accordance with the terms of the contract.

Payment is approved and certified on the MF-104 forms of $637.50, or 75 percent of the total $850.00 claimed by the contractor.

W. M. Traver

W. M. Traver

enclosure

WMT/kp

cc-4
E654
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 5, 1954

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMRA 3182 (Tungsten), Contract Idn-E654, Lloyd F. Mock (Mock shaft), Boulder County, Colo.--Progress report for April 1954

Progress under the subject, short-form contract was inspected May 3, 1954. The progress reported for the period by the operator--the construction of a shaft collar, headframe, and hoist house--was confirmed. This work is authorized under Stage I, Exhibit A of the contract at unit costs of $100.00, $250.00, and $500.00, respectively. The construction has been completed to the satisfaction of the inspecting engineer. Details of the work are described adequately in the operator's narrative. The progress is shown correctly on form MF-104A. The $850.00 total costs reported for this period, therefore, are approved. Payment of 75 percent of the total reported amount, or $637.50, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/kp

cc 6
E654
Chron

NARRATIVE REPORT
FOR APRIL, 1954

May 4, 1954

Work was started Saturday, April 10. I had a bulldozer in to make fill upon completion of timbering; to level for head frame; and level place for hoist house.

Collaring shaft

Completed the shaft collar the first day with no trouble as I had previously cut timbers.

Headframe

Set 22-foot, four-post headframe. Installed chiv wheel, dump sheet and dump chute.

Hoist house

Had difficulty in leveling sufficient space for house due to the pitch of the hill and the proximity of bed rock to surface. Had to drill and shoot for depth of approximately four feet to gain sufficient area for house. Then got-back-hoe digger in to remove dirt. The hoist house is 24' x 15', twelve feet high in front and eight feet in the rear, covered with asphalt siding; has eleven windows and two doors, one large enough to accomodate equipment. Poured two cement strips 18" x 10" x 5' for hoist mount. Spent one day setting up gear drive to motor. We have two carbon tet' fire extinguishers and upon recommendation of Mr. Ballmer will purchase a soda acid type extinguisher which should give us adequate fire protection.

Lloyd P. Mock

L. P. Mock

C
O
P
Y

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

March 8, 1955

Mr. Lloyd P. Mock
1440 St. Paul Street
Denver 6, Colorado

Re: Docket No. DMEA-3182 - Tungsten
Big Six Mine, Mock Shaft
Boulder County, Colorado
Contract No. Idm-E654

Dear Mr. Mock:

This is with reference to the subject Exploration Contract between you and the Government.

It is not our intention to make 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 certification of discovery or development. Your participation in the exploration program, however, is sincerely appreciated.

Sincerely yours,

/s/ C. O. Mittendorf

Administrator

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

DEPARTMENT OF THE INTERIOR
Denver Minerals Administration
RECEIVED
NOV 1 - 1954

224 New Customhouse
Denver 2, Colorado

October 26, 1954

Mr. Lloyd P. Mock
1440 St. Paul
Denver, Colorado

Re: Docket DMEA 3182 (Tungsten)
Contract Idm-E654

Dear Mr. Mock:

Reference is made to your letter of October 11, 1954 wherein you request that further consideration be given your request for additional Government assistance in exploration work on your property in the light of recent developments.

An investigation of the results of work at your expense, subsequent to our decision that further Government assistance would not be forthcoming, strengthens our decision of September 28, 1954 that Government participation in the costs of additional exploration work on your property is not warranted.

We are desirous of closing the account at an early date, therefore we will appreciate receiving your final report in compliance with Article 5(b) of Contract Idm-E654.

Very truly yours,

W H King
W. H. King

E. N. Hankman
for A. H. Koschmann

DMEA Field Team, Region IV

JWT:jp
cc Subject
Chron
Koschmann
Traver
Chairman, Op. Comm. (3)
Townsend

Defense Minerals Administration
RECEIVED

October 11, 1954

Mr. W. H. King, Executive Officer
DMEA Field Team Region IV
224 New Customshouse
Denver 2, Colorado

Dear Mr. King:

Since the Field Team's examination of the north drift on the 50-foot level for the purpose of an extension of government assistance, we have continued this drift 14 feet further, with the following results:

I believe we have passed through the junction of this vein with the vein which outcrops in the bulldozer cut northeast of the shaft, and encountered a dike. The foot wall vein continues quite strongly at a width of from six to ten inches. The hanging wall vein has widened with numerous feeders extending at various angles into the dike.

With this unexpected improvement in mind, I believe it would be of mutual interest to have the DMEA field team reexamine this heading to see if additional assistance in exploration might now be granted.

I will very much appreciate your further consideration.

Sincerely yours,

Lloyd P. Mock

L. P. Mock

L. P. Mock
1440 St. Paul
Denver, Colorado

October 25, 1954

Memorandum

To: A. H. Koschmann E.N.H. for A.H.K.

From: E. N. Harshman

Subject: DMEA Docket 3182 (tungsten), Contract Idm-8654, Lloyd P. Mack, Boulder County, Colorado

In a letter of October 13, 1954, the Executive Officer, DMEA Field Team, Region IV, requested that the Lloyd P. Mack property be re-examined to determine the singificance of the recent developments reported by Mr. Mack in his letter of October 11, 1954.

The property was examined on October 18, 1954, in company with Mr. Mack, operator under the above subject contract.

Following the examination by geologist MacLaren and his memorandum report of September 28, 1954, recommending denial of the operator's request for additional funds, the operator completed a 14-foot extension of the northeast drift on the 50-foot level. About 12 feet from the present face, 2 feet beyond the face at the time of MacLaren's examination, the footwall of the main shear zone swings 5° to 10° to the north and a 10" to 14"wide shear splits easterly from the main shear zone. The split strikes N. 40° E. and dips 60° southeast in contrast to a strike of N. 25° E. and a dip of 65° southeast for the main shear zone. Considerable brecciated, felsitic, dike material is exposed in the last 10 feet of the drift, particularly in the hangingwall of the main shear zone.

The rock between the split and the main shear zone is broken by many closely spaced fractures some of which contain paper thin coatings of ferberite. Veinlets of ferberite as much as 1/8 inch wide occur in the split and branch from it into the hangingwall. The proportion of

ferberite to brecciated wall rock is insignificant and under no circumstances can the material be considered ore grade.

The absence of significant amounts of ferberite near the intersection of the main shear zone and the hangingwall split tends to confirm MacLaren's conclusion that physically favorable ground in the vicinity of the mine workings is not apt to contain appreciable amounts of ore. It is therefore concluded that further exploration under contract idm-E654 will not lead to the discovery of significant amounts of tungsten ore and it is recommended that no further government assistance be approved.

No. 2

AMENDMENT OF CONTRACT: No. Idm-E654

Contract Docket No. DMEA 3182, dated January 4, 1954, between the United States of America and Lloyd P. Mock is hereby amended as follows, effective as of the date of the contract:

> Referring to "Article 3. Exploration project" of Exploration Project Contract Form MF-200(A) (February 1952), following the words "and shall bring the project to completion within a period of", delete "seven (7) months" and in lieu thereof substitute "nine (9) months".

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

Dated SEP 15 1954

UNITED STATES OF AMERICA

Lloyd P. Mock

Lloyd P. Mock

By W H King

W.H. King, Executive Officer
DMEA Field Team, Region IV

September 3, 1954

Mr. W. H. King, Executive Officer
DMEA Field Team Region IV
224 New Customshouse
Denver 2, Colorado

RE: Docket 3182 (Tungsten)
Idm - E654

Dear Mr. King:

Our contract was effective January 4, 1954, at which time we requested an extension of from 60 to 120 days' time in which to begin work. As we originally had five months to do the work plus 60 days' time in which to start, the extension cut our working time to three months.

This letter is to request an extension of the final date of 60 days or until October 4, 1954.

Sincerely yours,

Lloyd P. Mock

Lloyd P. Mock
Nederland, Colorado

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

224 New Customhouse
Denver 2, Colorado

September 10, 1954

Mr. Lloyd F. Mock
1440 St. Paul Street
Denver 6, Colorado

Re: Docket DMEA 5152 (Dungton)
Contract 14m-1054

Dear Mr. Mock:

Reference is made to our letter of August 19, 1954 wherein you were authorized to perform drifting south on the vein from a point approximately 85 feet below the collar of the shaft, to the extent conditions encountered indicate, but not to exceed a total of 50 feet.

Inasmuch as conditions encountered in the drifting indicate that the performance of the entire 50 feet in that direction is not warranted we hereby confirm our verbal approval of September 3, 1954 for you to perform the unexpended balance of the 50 feet in drifting north on the vein in, or at the bottom of, the mineralization, which is about 50 to 60 feet below the collar of the shaft.

Nothing in this work authorization shall be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "allowable maximum".

Very truly yours,

W. H. King

W. H. King

JWT:jp
cc Subject
Assessment File
Chron
Chairman, Oper. Comm. (3)
TAChristensen
AHKoschmann
WHGraver
JWTownsend

E. N. Hawkinson
for E. N. Koschmann

DMEA Field Team, Region IV

September 3, 1954

Mr. W. H. King, Executive Officer
DMEA Field Team Region IV
224 New Customshouse
Denver 2, Colorado

Re: Docket 3182
Idm - E654

Dear Mr. King:

Due to the poor showing of ore at the 88-foot level in drift, I request permission to expend the remaining 27 feet at from 50 to 60 feet in the opposite or northerly direction, this being on the best showing of ore.

Sincerely yours,

Lloyd P. Mock

Lloyd P. Mock
Nederland, Colorado

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

224 New Customhouse
Denver 2, Colorado

August 19, 1954

Mr. Lloyd P. Mock
1440 St. Paul Street
Denver 6, Colorado

Re: Docket DMEA 3182 (Tungsten)
Contract Idm-E654

Dear Mr. Mock:

Consistent with the stipulations contained in Exhibit "A" attached to Exploration Project Contract Form MF-200(A), Contract Idm-E654, and confirming DMEA Field Team, Region IV, verbal authorization of August 9, 1954, you are authorized to commence exploration work under Stage II of said Exhibit "A" of the contract as follows:

Expend the 80 feet of drifting described under said Stage II of the contract by drifting south on the vein from a point approximately 85 feet below the collar of the shaft to the extent conditions encountered in the drifting indicate as being desirable.

The balance of the authorized drifting not expended as above is to be performed on the vein to the north of the shaft.

The extent of drifting in either direction within the total allowable footage is subject to mutual agreement between yourself and the Government.

Nothing in this work authority shall be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "allowable maximum".

Very truly yours,

W H King
W. H. King

E. N. Hawkesman
for A. H. Koschmann

DMEA Field Team, Region IV

JWT:jp
cc Contract
Amendment
Chron
TAChristensen
WMTraver
AHKoschmann
Chairman, Oper. Comm. (3)
JWTownsend

COPY

Re: Docket 3182
Contract Idm 2654

August 9, 1954

Mr. W.H. King, Executive Officer
DMEA Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. King:

Have completed stage I of Contract (67 feet of sinking) and as per terms of contract, request written permission of field team to begin stage II (80 feet of drifting).

Thank you for your splendid cooperation.

Sincerely yours,

/s/ Lloyd P. Mock

Copy to: W. M. Traver

Nederland, Colorado.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
August 18, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3182, Contract Idm-E654 (Tungsten) Lloyd P. Mock (Mock shaft), Boulder County, Colo.--Recommendation for authorization to start Stage 2

It is recommended, after inspection of the shaft sinking work completed in the Mock shaft, that the Region IV Field Team authorize the contractor, in writing, to start drifting ~~[illegible]~~ to the south from the Mock shaft at a depth of between 85 and 90 feet below the collar, in accordance with Stage 2 of the contract. Drifting north from the shaft is also recommended, after the drift is completed far enough south so operations can be carried on economically, working the 2 headings concurrently. It should be stressed that advance of the south drift is of most importance.

W. M. Traver

W. M. Traver

WMT/ici

cc: 7
E654
Chron.

August 18, 1954

Memorandum

To: A. N. Koschmann E.N.H. for A.H.K.

From: E. N. Hershman

Subject: DMEA Docket 3182 (tungsten), Contract idm-E654, Lloyd P. Mock, Big Six Mine, Boulder County, Colorado

The Big Six Mine was examined on August 3, 1954, in company with D. R. MacLaren, U. S. Geological Survey. At that time work under stage I of contract idm-E654 was about finished, the bottom of the shaft being 95 feet below the collar.

The shaft followed a steeply dipping strong shear zone 3 to 6 feet wide, with schist on the footwall and granitic rocks on the hanging-wall. Ferberite and horn quartz occur in silicified wall rock as lenticular masses and discontinuous stringers dispersed throughout the shear zone. The total thickness of horn quartz and ferberite at any one horizon in the vein rarely exceeds 8 to 10 inches, and the vein material as taken from the shaft is not ore grade. Hand sorted material may contain as much as 5% WO_3. At about 85 feet below the collar of the shaft the "vein" flattens from a dip of 65° - 70° southeast to a dip of about 45° southeast. There is little or no ferberite in the vein material below the point of change in dip.

Work under stage II of the contract consists of 80 feet of drifting from the bottom of the shaft (100-foot level) or from the bottom of the ferberite mineralization. Field team approval is required before this work is started.

Although it now appears unlikely that significant amounts of ferberite ore will be discovered by exploration under the contract, it is recommended that drifting at a point 85 to 90 feet below the shaft

collar be authorized by the Field Team as stipulated under stage II.

South of the shaft the shear zone may cut rocks slightly more favorable to ore deposition than those to the north of the shaft. It thus appears advisable to expend most of the 80 feet allowed under the contract in drifting to the south.

No. 1

AMENDMENT OF CONTRACT: No. Idm-E654

Contract Docket No. DMEA 3182, dated January 4, 1954, between the United States of America and Lloyd P. Mock is hereby amended as follows, effective as of the date of said contract:

> Referring to "Article 3. Exploration Project" of Exploration Project Contract Form MF-200(A) (February 1952) following the words "The Operator, within" delete "sixty (60)" and in lieu thereof substitute "one hundred twenty (120)."

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

Dated: FEB 2 1954

UNITED STATES OF AMERICA

Lloyd P. Mock

Lloyd P. Mock

By W H King

W. H. King, Executive Officer
DMEA Field Team, Region IV

FEB -3 1954

January 14, 1954

Mr. W. H. King
Executive Officer
DMEA Region IV
224 New Customshouse
Denver 2, Colorado

RE: DMEA 3182 (Tungsten) Mock shaft (Big Six Mine) Lloyd P. Mook, Boulder County, Colo.

Dear Mr. King:

Thanks for the signed copy of the contract which I received January 12. I would like to request that the period of 60 days following the effective date (in which I must start work) be extended to 120 days. I make this request due to the fact that there is a great deal of surface work to be done to start, and certainly the weather conditions in Nederland before April 1 would make this surface work very difficult.

Thanks for your consideration.

Sincerely yours,

L P Mock

L. P. Mock

Dock[illegible] No. DMA 3102

Commodity Fluorspar

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

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

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

Contract No. Idm-R 634

Date of Contract or Amendment: January 4, 1954

Name and Address of Operator:

Lloyd P. Mock
1410 St. Paul Street,
Denver 6, Colorado

Amount of Government participation $ 6,676.50

Percent of Government participation 75 %

Region: IV State: Colorado

(Name)

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

(Title)

Date Delivered to Bureau of Mines, Washington. 1/5/54 13908

MF-200 (A)
(February 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 14 1954

DOCKET NO. DMEA 3182

COMMODITY Tungsten

Idm-E654

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

EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 4th day of January, 1954, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Lloyd P. Mock
1440 St. Paul Street
Denver 6
Colorado

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

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

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Colorado, County of Boulder, described as follows:[3] 40 acres of patented land located in the NW¼, NW¼, Sec. 13, T. 1 S., R. 73 W. of the 6th principal meridian,

the Operator represents and undertakes:[4]

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

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

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

ARTICLE 3. *Exploration project.*—The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for[5] Tungsten

in or upon the described land; and shall bring the project to completion within a period of seven (7) months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay seventy-five (75) percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $6,676.50, which is 75 percent of $8,902.00, the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ARTICLE 9. *Changes and added provisions* _____

_____

_____

_____

_____

Executed in sextuplicate the day and year first above written.

Lloyd P Mock
(Operator)

By _____

THE UNITED STATES OF AMERICA

By W. H. King
Executive Officer, DMEA
Field Team, Region IV

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

_____ [CORPORATE SEAL]

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

ANNEX I

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

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

EXHIBIT A

Description of the Work

The work will be divided into two stages, Stage 1 and Stage 2. Stage 2 must have the prior written approval of the Field Team before the work in Stage 2 is started.

Stage 1 consists of constructing a shaft collar, headframe, and hoist house at the Mock shaft. The Mock shaft will be sunk an additional 67 feet to the 100 foot level or to the bottom of the ferberite mineralization, whichever occurs first.

Stage 2 consists of 80 feet of drifting on the 100 foot level, or from the bottom of the ferberite mineralization if approved by the Field Team.

The location of the Mock shaft is shown on Figure 2 which is attached and made a part of Exhibit A.

DMEA 3182

Estimated Costs of the Project

Stage 1

1/ Construct shaft collar	$100.00	
1/ Construct headframe	250.00	
1/ Construct hoist house	500.00	
Sink the Mock shaft an additional 67 feet or to the bottom of the ferberite mineralization, whichever occurs first, at $76.00 per foot -	5,092.00	
Total Stage 1 -		$5,942.00
Government Participation, Stage 1, at 75% -		$4,456.50

Stage 2

Drive 80 feet of drift in accordance with written approval of the Field Team at $37.00 per foot -	$2,960.00	
Total Stage 2 -		$2,960.00
Government Participation, Stage 2, at 75% -		$2,220.00

Total Stage 1 and Stage 2 -	$8,902.00
Government Participation, Stage 1 and Stage 2, at 75% -	$6,676.50

1/ The entire work constitutes the unit of work.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

Defense Mat
JUN 14 1954

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of Colorado, County of Boulder, described as follows:1/

Northwest quarter of the Northwest quarter, Section 13, Township 1 South, Range 73 West.

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

2/ Lloyd P. Mock

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

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

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

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

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

4. Changes and added provisions

Dated this 18th day of September, 1953.

[Seal]

[Seal]

[Seal]

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

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

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

RELEVANT CONTRACT PROVISIONS

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, as follows:

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

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

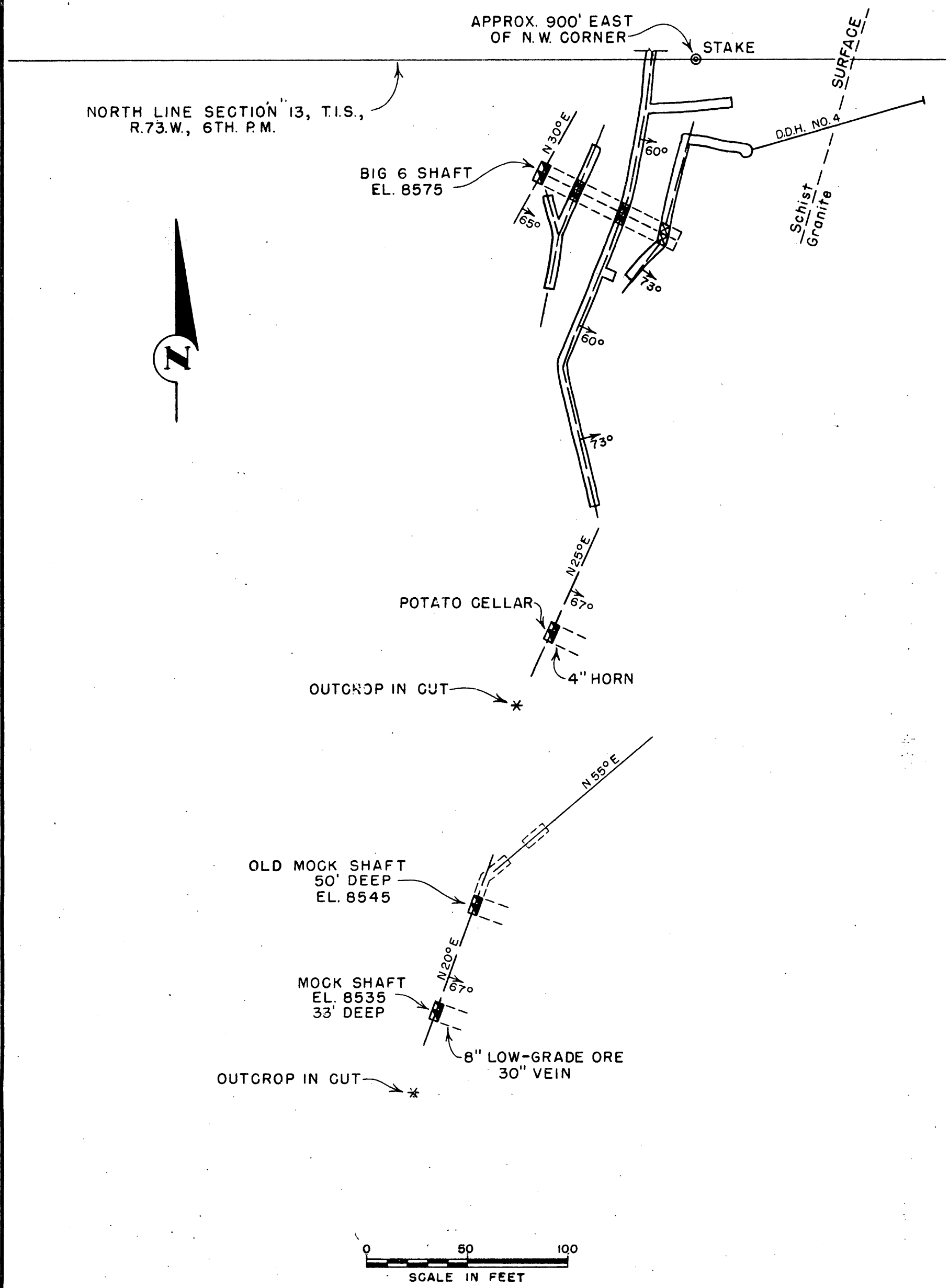
(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

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

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

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.



MINERAL RESOURCES BRANCH - MINING DIVISION
REGION IV
BUREAU OF MINES

FIGURE 2 - PLAN MAP, SHOWING MOCK SHAFT, BIG SIX MINE, LLOYD P. MOCK, BOULDER COUNTY, COLO. (DMEA 3182)