DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Idm-E NO. 278

DMEA NO. 2296

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [x] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [x] Royalty Audits
- [x] Certification of Discovery
- [ ] Closing Letter
- [x] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [x] Contract Amendments
- [x] Contract with all exhibits and annexes
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [x] Project summary (final)
- [x] Work Completed analysis (final)

All other material filed in chronological order including the following reports if checked:

- [x] Field Team Semi-Annual Report for Certified Project
- [x] Final Field Team Report (Tab)
- [x] Operator's Final Report (Tab)
- [x] Interim Field Team Reports
- [x] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [x] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Executive Officer, DMEA Field Team, Region III, Denver, Colorado, pertaining to Contract Idm-E278, Docket No. DMEA-2296, dated March 17, 1952, with

Joseph M. Smith
Charles R. Rugg
Nederland, Colorado

for the purpose of determining the amount of royalties due the U. S. Government on the sales of tungsten from property referred to as the Rambler and Missing Link Lode Mining Claims, located in Boulder County, Colorado, during the period March 17, 1952 to February 21, 1957.

A certification of discovery or development was issued on March 15, 1954, and, in accordance with the contract, royalty is payable on the net smelter returns or other net proceeds realized from production as a result of such discovery or development during a maximum period of 10 years from the date of the contract. A final audit dated December 21, 1953, indicated accepted costs under the exploration contract amounting to $23,507.12, with the Government's contribution, on a 75 percent basis, being $17,630.34.

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

(a) The Examining Engineer is of the opinion that all sales of ore produced during the period March 17, 1952 to February 21, 1957, for which settlement sheets have been released, have been properly accounted for.

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

The review established the total sales of tungsten ore and concentrates for this period to be $23,712.89. Royalty due the U. S. Government at the contract rate of 5 percent is $1,185.64. The royalty paid and the balance due are as follows:

Total Royalty Due	$1,185.64
Total Royalty Paid	1,185.64
Balance of Royalty Due	$ 0.00

EXTRA COPY
D M E A
RECEIVED FEB 28 1957

DATE	INITIALS	CODE
3/7	WSM	400

F. H. Breding, Auditor

February 21, 1957

DMEA
RECEIVED FEB 28 1957

DATE	INITIALS	CODE
3/7	WSM	400

Check Sheet of Examining Engineer

Operator's Name Jos. M. Smith
Charles R. Rugg

Address Nederland,
Colorado

Exploration Contract No. Idm-E278

Docket No. DMEA-2296

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

8. Comment on any item 2 (b) to 6 if answer is No.

Subject property is reported to have been inactive for 1 year, and no production is anticipated.

Date 2/21/57

D. E. Redmon
Mining Engineer
D. E. Redmon

DOCKET

Rutledge
Martin
Guild
Geehan
Chambers
Hedges
Johnson
J.H. Johnson

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

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

To: Messrs. Joseph M. Smith and
Charles R. Rugg, a partnership
P. O. Box 354
Nederland, Colorado

Pursuant to the provisions of Exploration Project Contract No. Idm-2278, dated March 17, 1952, (Docket No. DMEA 2236), hereinafter called the "Contract" between Messrs. Joseph M. Smith and Charles R. Rugg, a partnership, and the United States of America, hereinafter called the "Government"; to fix the Government's percentage royalty on production and its lien thereon and on the mineral deposit which is the subject of the exploration project, the Government considers and therefore certifies that a discovery or development has resulted from the work from which commercial production of ore may be made.

The Government's estimate of said discovery or development is particularly described and delimited as follows:

Shaft rehabilitation at the Rambler mine followed by sinking, drifting, crosscutting, and raising has resulted in the discovery of a substantial amount of tungsten ore. The tungsten, present in the form of ferberite, occurs in several ore shoots in a branching system of northeast-trending veins. Sufficient data were obtained from the exploration program to estimate ore reserves, part of which were mined during the course of the exploration program.

As a result of this discovery or development, all production from the Rambler and Missing Link lode mining claims (Survey No. 18225A) is subject to the Government's percentage royalty.

THE UNITED STATES OF AMERICA

Dated: MAR 1 5 1954

By: O. Mitchell
Administrator, Defense Minerals Exploration Administration

cc: Irving Gumbel, Act.Direc.,EPS,GSA.
George W. Cowdery, Boulder, Colo.

cc: Docket
Field Team, Reg. 4
Finance Office
Operating Comm.
Adm. Read. File
Code 400 - Mr. Martin
Code 800 - Mr. Chambers
Code 110 - Mr. Johnson
J.H.Hedges, USBM
R.W.Geehan, USBM
T.P.THAYER, USGS
P. W. Guild, USGS

Hoffman
Martin
Chambers

JHopkins/FARutledge/ls
3/12/54

DOCKET
Surname:

Hopkins
Martin
Johnson
Guild
Chambers
Rubin
Hoffman

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

To: Messrs. Joseph M. Smith and
Charles R. Rugg, a partnership
P. O. Box 354
Nederland, Colorado

Pursuant to the provisions of Exploration Project Contract No. Idm-E278, dated March 17, 1952, (Docket No. DMEA 2296), hereinafter called the "Contract" between Messrs. Joseph M. Smith and Charles R. Rugg, a partnership, and the United States of America, hereinafter called the "Government"; to fix the Government's percentage royalty on production and its lien thereon and on the mineral deposit which is the subject of the exploration project, the Government considers and therefore certifies that a discovery or development has resulted from the work from which commercial production of ore may be made.

The Government's estimate of said discovery or development is particularly described and delimited as follows:

An exploration program was initiated by extending an inclined shaft from the 162-foot level to the 187-foot level in the Rambler Mine. Drifting, crosscutting, and raising on this new level resulted in the discovery of a substantial amount of tungsten ore. Five separate ore shoots estimated to contain 1,080 tons of commercial ore that will average 0.8 percent tungsten trioxide in the form of ferberite have been exposed as a result of the work performed under this project. Ore obtained from drifts and raises during the exploration work totaled approximately 200 tons which netted 3,558 pounds of milled concentrates containing 55.5 percent WO_3 or 98.734 units.

THE UNITED STATES OF AMERICA

Dated: _____

By: _____
Rubin
Administrator, Defense Minerals
Exploration Administration

cc: P. W. Guild, USGS
Irving Gumbel, Act. Dir., EPS, GSA.
George W. Cowdery, Boulder, Colorado

JHopkins/ls
3/5/54

cc: Docket
Field Team, Reg. 4
Finance Office
Operating Committee
Adm. Reading File
Code 400 -Mr. Martin
Code 800 - Mr. Chambers
Code 110 - Mr. Johnson
J. H. Hedges - USBM
T. P. Thayer - USGS
R. W. Geehan - USBM

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
3/22	Holt	500
	Drumel	500
3/26	Dalow	140
	Brown	140
	[illegible]	
4/10	Talbert	800
4/11	Fellenzer	120
"	Johnson	110
4/1	Fumich	100

220

APR 1 1 1962

Mr. Joseph M. Smith
Mr. Charles R. Rugg
P. O. Box 354
Nederland, Colorado

R.

INTERIOR DEPT.
MAR 23 1962
SOLICITOR

Re: DMEA-2296 (Tungsten)
Joseph M. Smith and Charles R. Rugg,
a partnership
Rambler Mine
Boulder County, Colorado
Contract Idm-E278

Gentlemen:

By the terms of the subject Exploration Project Contract, as amended, and the certification of discovery or development, dated March 15, 1954, all minerals mined or produced from March 17, 1952, to March 17, 1962, were subject to the Government's percentage royalty as set forth in said contract.

As the period during which production subject to royalty has now expired, the Government according to its present records retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this contract. Your attention, however, is called to the provisions of the contract which require the Operator to keep and preserve certain records for the periods indicated.

Sincerely yours,

George Fumich, Jr.

(pt)

Director

SPHolt/gla
3-22-62
cc to: Director's Reading File
Contract Division
Region III (2)
Docket
Code 500

RECEIVED
MAR 23 1962
ASSOC. SOLICITOR
MINERAL RESOURCES

43683

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

AUDIT CERTIFICATE

I have examined the records and transactions of:

WSM

Joseph M. Smith
Charles A. Rugg
Nederland, Colorado

pertaining to Exploration Contract Idm-R278, Docket No. DMEA 2296 including Amendments one to five, covering a project of exploration for tungsten, located in Boulder County, Colorado, commonly known as the Hambler Mine, for the period April 7, 1952 to September 20, 1953, including a recess from December, 1952 to April 15, 1953, and subsequent settlement on November 13, 1953.

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

The audit disclosed the following facts in regard to the amount to be paid the Contractor:

Total Cost per MF-104		$24,133.57
Proceeds from Property Disposition		434.45
Adjusted cost		$23,699.12
Exceptions: (See Audit Report for Details)		
During this Audit	$192.00	
Prior to this Audit	-	192.00
Total Accepted cost		$23,507.12

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 Seventeen-Thousand Six-Hundred-Thirty and 34/100 Dollars

- $17,630.34 -

is valid and proper.

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

Dated: December 21, 1953

R. H. Brading, Auditor

AUDIT REPORT

I. INTRODUCTION

A final audit was made on December 1, 1953 (covering the period from April 7, 1952 to September 26, 1953 including a recess period from December, 1952 to April 15, 1953 and subsequent settlement on November 13, 1953) of the records and accounts of operations pertaining to Contract Idm-8278 and amendments one to five with:

Joseph A. Smith
Charles A. Kupp
Nederland, Colorado

covering a project of exploration for tungsten located in Boulder County, Colorado, commonly known as the Rambler Mine.

The accounting records under the contract are located in the offices of Wilkins and Schone, Certified Public Accountants, First National Bank Building, Boulder, Colorado. Prior to the audit approximately three days were spent in the office preparing preliminary schedules, etc. The cooperation of Mr. A. W. Schone greatly facilitated the audit.

II. GENERAL INFORMATION ON RECORDS

The accounting records consisting of a Cash Journal and General Ledger are maintained under the supervision of Mr. A. W. Schone, Certified Public Accountant.

The original invoices and payroll disbursements are recorded in a Cash Journal. The information reflected on the journal forms the basis for the preparation of the Monthly Mr-104 Reports. Therefore, this audit involved in general a check of original invoices and payroll records against the journal and reconciliation with the amounts shown on the Mr-104 accounts. Costs were recorded on a combination of cash and accrual basis.

III. SCOPE OF AUDIT AND FINDINGS

The audit was limited to ascertaining the accuracy, propriety and validity of the costs as shown in the "Totals to Date" column of Form Mr-104, Operator's Monthly Report and Voucher, for the month of September, 1953. The extent of the audit and the findings under each of the "Items of Cost" follows:

(1) Independent Contracts

Not applicable to this contract.

(2) Labor and Supervision

All charges under this item were checked against the amounts recorded on the Cash Journal. In order to verify the labor time, rates and charges on a test basis, labor costs charged April, 1952 - September, 1952, March, 1953 and September, 1953, were checked back from the journal through the semi-monthly payroll summaries prepared by Mr. Schone from original time book approved by Mr. Smith.

Cost of Supervision was limited to salary of Joseph M. Smith, one of the partners. No record was maintained of the time Mr. Smith devoted to supervision, but the Examining Engineer, R. L. Bolmer, estimated that approximately half his time was devoted to duties ordinarily performed by one of the miners. This estimate is accepted as it appears to be conservative.

Charges properly allowable and chargeable as a cost of the project under terms of the contract and amendments are:

Labor	$12,551.70
Supervision	2,408.00

(3) Operating Materials and Supplies

All charges under this category were checked against the journal. An analysis was made to determine propriety of the items charged. All purchases for April, 1952 - September, 1952, March, 1953 and September, 1953, were verified against invoices.

The total costs properly chargeable and allowable under this category were found to consist of the following:

Timber		$123.27
Explosives		2,264.89
Pipe		118.12
Track		16.43
Miscellaneous:		
Gas and Oil	$1,553.61	
Hand Tools	94.36	
Drill Steel	602.87	
Miscellaneous	268.83	2,519.67
Total		$5,042.38

(4) Operating Equipment

Rental

All charges for rental of Operating Equipment were checked against the journal. No records showing the time subject equipment was in use were

maintained. The Examining Engineer's Narrative Reports indicated that the equipment was in use for the period charged. Proration of cost was made in the instance where equipment was used less than a full month. Details of equipment, rates and time for which charged is shown below:

Equipment	Monthly Rental	Period	Charge	
Diesel Generator	$75.00	April, 1952*	$ 56.25	
		May - Nov., 1952	525.00	
		April, 1953*	37.50	
		May - Aug., 1953	300.00	
		September, 1953*	66.33	
Total charge for Diesel Generator Rental - - - - - - - - -				$985.08
Pneumatic Pump	25.00	April, 1952*	18.75	
		May, 1952	25.00	
Total Pneumatic Pump Rental - - - - - - - - - - -				$ 43.75
Centrifugal Pump (2)	25.00	May, 1952	50.00	
(1)		June - Nov., 1952	150.00	
(1)		April, 1953*	12.50	
(1)		May - Aug., 1953	100.00	
(1)		September, 1953*	22.12	
Total Centrifugal Pump Rental - - - - - - - - - -				334.62
Total Pump Rental - - - - - - - - - - - - - - - - - - -				378.37
TOTAL RENTAL CHARGE - - - - - - - - - - - - - - - - - -				$1,363.45

Total rental charge of $1,363.45 is considered a proper and allowable charge under the terms of the contract.

*Proration charge.

Purchases

Invoice from Union Supply Company in the amount of $198.90 for purchase of jackhammer leg was examined. Purchase of this equipment was authorized by contract. Operator bid $110.00 for this item. Original price of $198.90 less bid of $110.00 equals $88.90, which amount is considered a proper and allowable cost to the project under the terms of the contract.

Depreciation

As with equipment rentals, log or record of time company equipment was used was not maintained. Periods used were verified by Examining Engineer's Narrative Report. Rates are in agreement with those specified in the contract. Description of equipment, periods used and allowable rates are shown below:

Equipment	Period	Rate	Amount	
Compressor	April, 1952*	$25.00	$ 18.75	
	May - Nov., 1952		175.00	
	April, 1953*		12.50	
	May - Aug., 1953		100.00	
	September, 1953*		22.12	
Total depreciation - Compressor - - - - - - - - -				$328.37
Jackhammer Leg	April, 1952*	5.00	3.75	
	May - Nov., 1952		35.00	
	April, 1953*		2.50	
	May - Aug., 1953		20.00	
	September, 1953*		4.44	
Total depreciation - Jackhammer Leg - - - - - - - -				65.69
Dump Truck	April, 1952*	10.00	7.50	
	May - Nov., 1952		70.00	
	April, 1953*		5.00	
	May - Aug., 1953		40.00	
	September, 1953		8.84	
Total depreciation - dump truck - - - - - - - - - -				131.34
Total depreciation -				$525.40

Total depreciation charged in the amount of $525.40 is considered proper and allowable charge to project under the terms of the contract.

*Prorata charge.

(5) Initial Rehabilitation and Repairs

Charges for repairs to Hoist House as listed below were verified by examination of suppliers invoices and payroll charges:

Supplies	$31.44
Labor	33.40
Total	$64.84

Total of $64.84 is considered a proper and allowable charge to the project under the terms of the contract.

(6) New Buildings and Improvements

Not applicable to this contract.

(7) Miscellaneous

Invoices covering charges for repairs to equipment were examined as to propriety and validity. Analysis of charges are shown below:

Compressor	$234.04
Pump	27.50
Truck	76.74
Hoist	33.59
Jack Hammer	28.10
Total Allowable Cost	$399.97

Invoices for $4.00 and $11.00 for sampling and analysis were examined.

All charges for Social Security Taxes and Insurance were checked by computation at the rates shown by the company's files to be in effect. These rates were:

Social Security Tax	1.5
Workmen's Compensation Insurance:	
April, 1952 through March, 1953	$2.95
April, 1953 through September, 1953	2.09

In April, 1952 a deposit of $100.00 for Workmen's Compensation Insurance was made and in May, 1953, another deposit of $42.00 was made. These amounts were charged as costs to the project. As the amounts in question definitely are deposits and not payments for premiums they are disallowed.

A charge of $50.00 per month is made for bookkeeper. In September, 1953 a charge of $100.00 was made for accountant's services. As the amount of $50.00 per month is an allowable maximum under the contract $50.00 is accordingly disallowed.

A charge made by Hodgson Transfer Company in the amount of $12.88 for moving equipment was verified by examination of invoice.

IV. CONCLUSIONS

On October 31, 1953, the operator submitted two bids, in addition to his own, covering equipment, material and supplies in which the Government has an equity. Inasmuch as the contractor's bid was the most favorable it was accepted by the Executive Officer, Region IV, on November 13, 1953.

This audit has disclosed that all costs as charged to this project with the exception of item under Item (7) Miscellaneous, and giving consideration to disposal of property in which Government has an equity, are reasonable and proper under the terms of the contract.

The adjustments between Items of Cost as shown on the September MF-104, the recommended disallowances, disposal of property in which the Government has an equity, and approved amounts are summarized as follows:

	Totals Sept. MF-104	Distribution Corrected	Disallowed by Audit	Property Disposal	Allowed by Audit
(1)Independent Contract					
(2)Labor & Supervision					
Labor	$10143.70	$12551.70			$12551.70
Supervision	4816.00	2408.00			2408.00
(3)Operating Material & Supplies					
Timber	56.33	123.27			123.27
Explosives	2263.65	2264.89			2264.89
Pipe	344.26	364.51		$246.39	118.12
Track	83.20	84.49		68.06	16.43
Other	2691.21	2529.67		10.00	2519.67
(4)Operating Equipment					
Rental	1363.45	1363.45			1363.45
Purchase	198.90	198.90		110.00	88.90
Depreciation	525.40	525.40			525.40
(5)Initial Rehabilitation & Repairs	66.84	66.84			66.84
(6)New Buildings & Improvements, etc.					
(7)Miscellaneous Repairs					
to Equipment	328.15	399.97			399.97
Sampling & Analysis	15.00	15.00			15.00
Payroll Taxes	85.62	85.62			85.62
Workmen's Compensation Insurance	513.23	513.23	$142.00		371.23
Accounting	625.75	625.75	50.00		575.75
Hauling Equipment	12.88	12.88			12.88
	$24133.57	$24133.57	$192.00	$434.45	$23507.12

At the conclusion of the audit, the findings were discussed with Mr. A. W. Schone, and Mr. Robert L. Bolmer, representing the Executive Officer of Region IV. There were no unused materials, supplies or other property to be disposed of for the joint account of the operator and the Government other than that covered by waiver or liquidation.

December 21, 1953.

T. H. Brading, Auditor

No. 5

AMENDMENT OF CONTRACT: No. Idm-E278

Contract Docket No. DMEA 2296, dated March 17, 1952, between the United States of America and a partnership consisting of Joseph M. Smith and Charles R. Rugg is hereby amended as follows, effective April 15, 1953:

> Referring to EXHIBIT "A" attached to Exploration Project Contract Form MF-200, caption "Labor and Supervision", change "1 Miner at $1.65 per hour" to read "2 Miners at $1.75 per hour"; change "1 Hoistman at $1.50 per hour" to read "1 Hoistman at $1.75 per hour"; add the following to the sentence beginning with the words "The above hourly wages...":
>
> The miners and mucker engaged in advancing headings may be paid on the following basis for units of work performed in lieu of the hourly wage rate:
>
> Drifts & Crosscuts, untimbered, @ $10.00 per foot maximum
> Raises, untimbered, @ $10.00 " " "
>
> The payment per foot of advance shall constitute payment for the work of drilling, blasting, placing muck in bucket at shaft, installing pipe and track and keeping haulageway and station cleaned up.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated MAY 11 1953

UNITED STATES OF AMERICA

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

Joseph M. Smith
Joseph M. Smith, Partner

Charles R. Rugg
Charles R. Rugg, Partner

Docket Ref Cy

No. 4

AMENDMENT OF CONTRACT: No. Idm-E278

Rubin Hoffman

Contract Docket No. DMEA 2296, dated March 17, 1952, between the United States of America and a partnership consisting of Joseph M. Smith and Charles R. Rugg 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, delete "fourteen (14) months" and in lieu thereof substitute "twenty (20) months".

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated January 26 1953.

Joseph M Smith
Joseph M. Smith

Charles R Rugg
Charles R. Rugg

UNITED STATES OF AMERICA

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

No. 3

AMENDMENT OF CONTRACT: No. Idm-E278

Contract Docket No. DMEA 2296, dated March 17, 1952, between the United States of America and a partnership consisting of Joseph M. Smith and Charles R. Rugg is hereby amended as follows, effective November 4, 1952:

> Referring to Amendment No. 2 dated August 7, 1952, which amended Amendment No. 1 dated June 12, 1952, that in turn amended "EXHIBIT A" attached to Exploration Project Contract Form MF-200, void first said Amendment No. 2 in its entirety.
>
> Referring to Amendment No. 1, dated June 12, 1952, which amended "EXHIBIT A" attached to Exploration Project Contract Form MF-200, add the following to the second paragraph of said Amendment:
>
>> The balance of funds, originally allocated for 640 feet of drifting and crosscutting, and 60 feet of shaft sinking, which were not expended thereon by reason of geologic conditions encountered as the work progressed, may be expended for other drifting, crosscutting, slabbing or raising at locations acceptable and to the extent approved by the DMEA representative.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated November 26 1952.

Joseph M. Smith
Joseph M. Smith

Charles R. Rugg
Charles R. Rugg

UNITED STATES OF AMERICA

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

Do not Copy
Original
No. 2

AMENDMENT OF CONTRACT: No. Idm-E278

Contract Docket No. DMEA 2296, dated March 17, 1952, between the United States of America and Joseph M. Smith and Charles R. Rugg, a partnership, is hereby amended as follows, effective July 7, 1952:

> Referring to Amendment No. 1, dated June 12, 1952, which amended "EXHIBIT A" attached to Exploration Project Contract Form MF-200, add the following to the second paragraph of said Amendment:
>
> Raising on the newly established 200 level at a point approximately 35 feet northeast of the shaft is authorized in an amount not to exceed 50 feet. Funds for the raising will be made available from funds which otherwise would have been used in extending the new 200 level northeast of the shaft. The proposed raise is shown on the attached map titled "Plan, Rambler Mine, Boulder Co., Colo., DMEA 2296", which is made a part of this Amendment.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated August 7, 1952.

Joseph M Smith
Joseph M. Smith

Charles R Rugg
Charles R. Rugg

UNITED STATES OF AMERICA

By W. H. King
Executive Officer - DMEA

50

5 of 5
8/20/52
GCL

Docket Copy
Tungsten

No. 1

AMENDMENT OF CONTRACT: No. Idm-E278

Contract Docket No. DMEA 2296, dated March 17, 1952, between the United States of America and a partnership consisting of Joseph M. Smith and Charles R. Rugg is hereby amended as follows, effective as of the date of said Contract:

> Referring to "EXHIBIT A" attached to Exploration Project Contract Form MF-200, caption "Exploration Project" delete the entire paragraph beginning with, "The proposed project consists of . . ." and in lieu thereof insert the following:
>
> "The proposed project consists of repairing the hoist house and headframe, unwatering and rehabilitating the Lower Rambler shaft, sinking the shaft approximately 60 feet, drifting on the vein approximately 300 feet in a northeast direction and approximately 215 feet in a southwest direction from the shaft on a new level established at approximately 200 feet below the collar of the Rambler Shaft, and crosscutting from the newly established level an aggregate of 125 feet at locations and to the extent as approved by the DMEA Representative."

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated June 12, 1952.

Joseph M Smith

Charles R Rugg

UNITED STATES OF AMERICA

By W. H. King
Executive Officer - DMEA

SS 6-25-52
for
GCS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 16 1952

MF-209
(June 1951)

DMA-2296
Docket No. [redacted]
Commodity Tungsten
Idm-E278

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DOCKET COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 17th day of March, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] a partnership: Joseph M. Smith
Charles R. Rugg
Nederland, Colorado

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Colorado, County of Boulder described as follows: [3]
Bambler Claim No. 102254
Missing Link Claim No. 102254
Located in the S. E. 1/4, Sec. 24, T. 1 S., R. 73W, 6th P. M.

with respect to which the Operator represents and undertakes: [4]

(*a*) [redacted]

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

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; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] fourteen (14) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. 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.

5. *Fixtures and improvements.* 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. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[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.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment and other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, 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.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 75 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 18,300.00, which is 75 percent of the agreed estimated total cost of this project, $ 24,400.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *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 worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

Joseph M Smith Charles R Rugg
(Operator)

By _____

THE UNITED STATES OF AMERICA

By J. H. Ernst

Regional Director, Region IV
U. S. Bureau of Mines

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Boulder, State of Colorado, described in a certain Exploration Project Contract dated March 17th, 1952, between Joseph M. Smith and Charles R. Rugg, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated November 20, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 17th day of March, 1952

George W. Crowdery

U. S. GOVERNMENT PRINTING OFFICE 16—64[illegible]2-1

P. Smith & Rugg

DMCA-2296
E-278

EXHIBIT A

Exploration Project

The proposed project consists of repairing the hoist house and headframe, unwatering and rehabilitating the Lower Rambler shaft, sinking the shaft approximately 60 feet, drifting on the vein 300 feet northeast from the 150 foot-level of the shaft, and 215 feet southwest from the 150-foot level of the shaft, and crosscutting 125 feet on the 150-foot level.

The location of the proposed work is shown on Fig. 2 attached.

The location of the Lower Rambler shaft is shown on the attached claim map.

The estimated working time is 12 months.

The following costs are estimated:

Rental of equipment	$1,400.00
Purchase of equipment	305.00
Depreciation of equipment	440.00
Labor, supervision, compensation	16,450.00
Supplies	5,805.00
Total cost of project -	$24,400.00

Fixtures and Improvements

None

Operating Equipment

To be Rented:

Diesel-powered generator at $75.00 per month
Centrifugal pump and motor at $30.00 per month
Pneumatic sump pump at $40.00 per month
Hoisting bucket at $15.00 per month

Estimated total rental - $1,400.00

To be Purchased:

1 Gardner-Denver pneumatic leg for S55 jackhammer complete	$205.00
1 Used mine car	100.00
Total purchases -	$305.00

4

Operating Equipment - Cont'd.

To be furnished by operator:

1 Gardner-Denver WH 210, gasoline-powered compressor at $25.00 per month
1 Gardner-Denver #55 jackhammer at $5.00 per month
1 Denver Engineering Company hoist powered by Ford V-8 engine - None
1 1942 Ford dump truck at $10.00 per month

Total estimated depreciation - $40.00

Labor and Supervision

1 Foreman at $2.00 per hour
1 Miner at $1.65 per hour
1 Mucker at $1.50 per hour
1 Entrimman at $1.50 per hour
1 Bookkeeper at $90.00 per month

The above hourly wages are based on an 8-hour day, 5-day week with time and one-half for overtime.

Total estimated labor and supervision -	$15,750.00
Compensation, insurance, payroll taxes	700.00

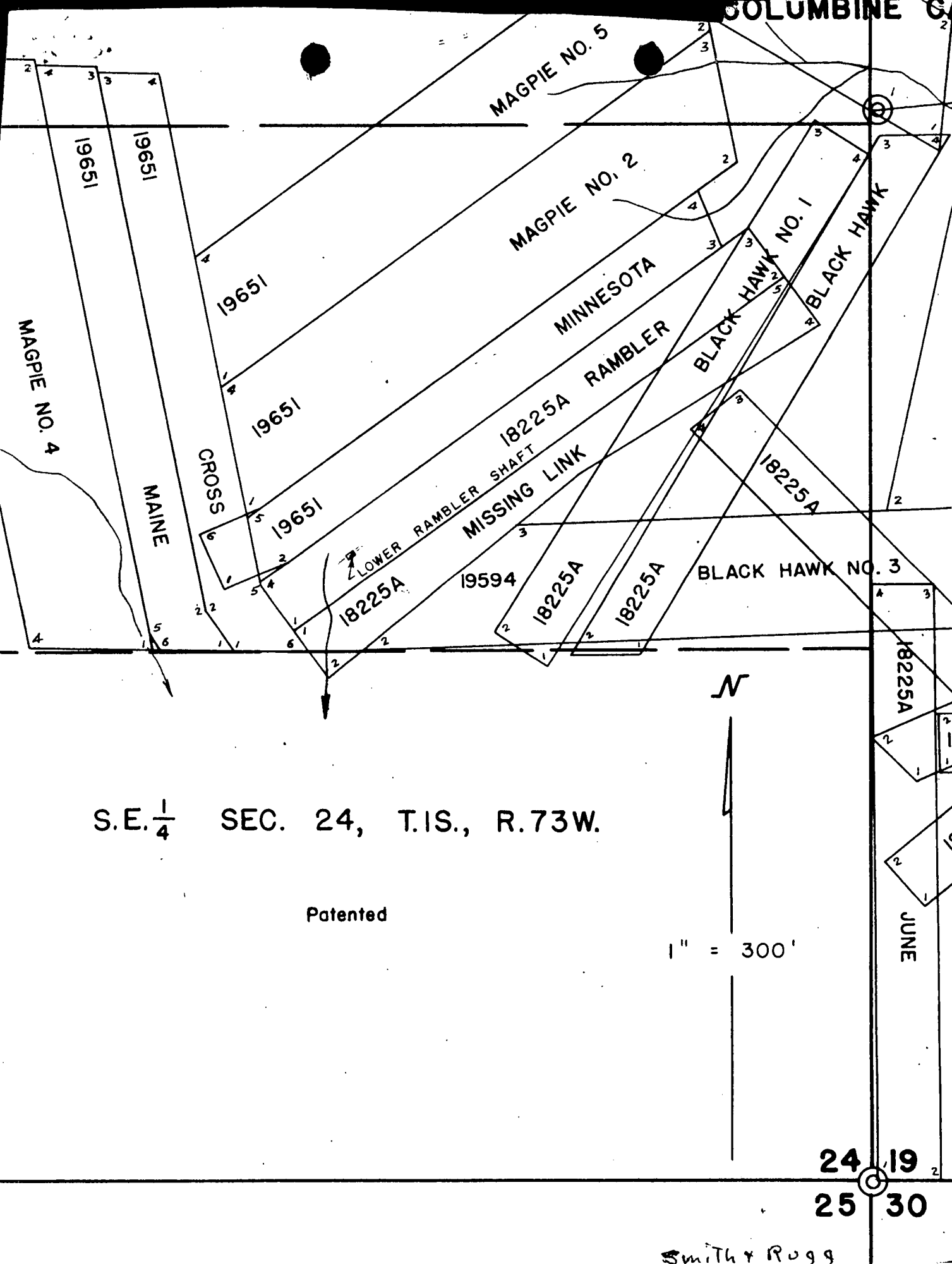
Supplies

Timber	$535.00
Explosives	1,675.00
Gasoline, Diesel fuel, Oil, Grease	995.00
Drill steel, bits	880.00
Pipe (air, water, pump line)	350.00
Air and water hose	170.00
Track	400.00
Miscellaneous small tools	300.00
Lumber	200.00
Assaying	100.00
Surveying	200.00
Estimated cost of supplies -	$5,805.00

Rehabilitation and Repairs

Repair hoist house	$100.00
Repair head frame	$150.00

A breakdown of these two items is given under labor and supplies.


COLUMBINE G
MAGPIE NO. 5
MAGPIE NO. 2
MAGPIE NO. 4
19651
19651
19651
19651
19651
MINNESOTA
18225A RAMBLER
BLACK HAWK NO. 1
BLACK HAWK
CROSS
MAINE
LOWER RAMBLER SHAFT
MISSING LINK
18225A
18225A
19594
18225A
18225A
BLACK HAWK NO. 3
18225A
JUNE
N
S.E. 1/4 SEC. 24, T.1S., R.73W.
Patented
1" = 300'
24 19
25 30
Smith x Rugg

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2296
Metal or Mineral
Date Received 12-18-51
Amount $
Participation (Government %)

SMITH AND RUGG
RAMBLER MINE
NEDERLAND COLORADO

Name and address of applicant

Date December, 7th, 1951.

If you have already filed MF-100, give date filed Same, type of assistance requested ,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 18 1951

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

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

SMITH AND RUGG
(Name of company)

By Joseph M Smith
Charles R Rugg
(Signature of authorized official)

December, 7th, 1951.
(Date)

Partners.
(Title)

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.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

SMITH and RUGG

Rambler Mine

Nederland Colorado

1. Description.

(a) Rambler Mining Claim. Patent No. 18225A.
Grand Island Mining District.
Section 24. T. 1 S. R.72 W.
Boulder County, Colorado.

Missing Link Mining Claim. Patent No.18225A.
Grand Island Mining District.
Section 24. T.1 S. R. 72 W.
Boulder County, Colorado.

(b) Mine is operated under lease from owner. Copy of lease next page.

(c) Legal Description same as answer (a).

Note. (2)
Applicants not being owners of the property involved, subordination agreement of owner is submitted.

Property involved is free of any leins or encumbrances.

SMITH AND RUGG
RAMBLER MINE
NEDERLAND COLORADO.

2. (a) Tungsten (Ferberite)

(b) Rambler is a fissure vein dipping 57 to70 deg.N.W. and running North easterly and Southwesterly.

The vein where exposed in the shaft and 90ft level is in granite and pegmatite. A good share of surrounding surface is mainly schist.

Dips of two additional veins or splits exposed in hanging wall on 90ft level indicate junctions favorable for larger ore bodies at depth proposed.

Volume of ore produced in upper workings of this property should alone justify this project.

Probability of adjoining Cross orebody dipping onto Rambler is favorable and well worth proving.

SMITH AND RUGG
RAMBLER MINE
NEDERLAND COLORADO

3. Proposed work.

(a) Shaft

		Estimated cost.
Rehabilitate to bottom.		$300.
Sink 50ft.		$3250.
Drifts. Southwest along vein.	215 ft.	$5276.
Northeast along vein.	575 ft.	$14087.
Crosscuts. Northwest	30 ft.	$735.
Southeast	65 ft,	$1592.
Surface plant. Rehabilitate.		$130.
Dewater 90ft.to 150ft and maintain waterduring this project		$1000.
Estimated total cost.		$26370.

Twenty six thousand three hundred seventy dollars.

(b) Proposed project will start immediately upon approval of this application.

Maximum time required to complete project.
18 Months.

SMITH AND RUGG

SMITH and RUGG

RAMBLER MINE

NEDERLAND COLORADO

5. Existing facilities.

(a) Hoist room and shop. Wood building 16 ft. X 28 ft. Asphalt paper covered. Fair condition but for few minor repairs.

(b) Head frame, sheave wheel and dumping arrangment. Serviceable with some repairing.

(c) Powder magazine. Good condition.

(d) Ore house. Not to be repaired.

Estimated cost of rehabilitation pf Surface plant. Labor and material

(a)	$40.00	
(b)	$90.00	
(c)		none
(d)	--------	none

Total $130.00

SMITH and RUGG
RAMBLER MINE
NEDERLAND COLORADO

6. Additional facilities.

No additional facilities,buildings,and fixtures will be required for development project.

SMITH and RUGG
Rambler Mine
Nederland Colorado

7. Operating equipment.

(a) Rentals

Diesel generator set. 15 months at $75.00 per mo.	$1125.
Electric driven pump. 15 months at $30.00 per mo.	$ 450.
Thor Jackhammer. Mounted. 15 mos. at $30.00 per mo.	$ 450.
Thor Air driven Sump pump. 2 mos. at $40.00 per mo.	$ 80.
Total	$2105.

SMITH and RUGG
Rambler Mine
Nederland Colorado

7. Operating equipment.

(b) To be purchased.

One 16 cu. ft. Mine car. Roller bearing. Used.	$100.
Onm 3 in. column and arm. used.	$ 75.
Total	$175.

SMITH and RUGG
Rambler Mine
Nederland Colorado

7. Operating equipment.

(c) Furnished by applicant.

One Gardner Denver Compressor. 210 cu. ft. Powered with Buda engine.	
Depreciation	$250.
Maintenance andrepairs	$400.
One Gardner Denver S55 Jackhammer.	
Depreciation	$ 75.
Maintenance and repairs	$100.
One Denver Eng. Co. Hoist. Powered with Ford V8 Motor.	
No depreciation.	
Repairs	$100;
One 1942 Ford Dump Truck.	
Depreciation	$125.
Maintenance and repairs.	$100.
Total	$1150.

SMITH and RUGG

Rambler Mine
NEDERLAND COLORADO

8. Labor Schedule.

Class.	No.	Max.Wage.
Miner and manager.	One.	$2.00 per hr.
Miner 1st class.	One.	$1.65 per hr.
Miner (ordinary)	One.	$1.50 per hr.
Hoistman.	One.	$1.50 per hr.

Due to lack of experienced help this operation is planned on a three to four man basis. If and when conditions may justify,authorization for the second shift is requested, to include following additional man power.

Class.	No.	Max.Wage.
Miner (1st class)	one	$1.65 per hr.
Miner-mucker.	one	$1.50 per hr.
Hoistman.	one	$1.50 per hr.

Smith and Rugg
Rambler Mine
Nederland Colorado.

9.

9. Estimated cost of supplies etc.

Two air hoses complete.	@$35.	$ 70.
Two water hoses.	@$25.	$ 50.
5000lbs mine rails.used.	@ $100. per ton.	$ 250.
Spikes and bolts.		$ 25.
400ft 2 in. Pipe Used.	@30¢ ft.	$ 120.
900ft 1" pipe.	@15¢ ft.	$ 135.
1100ft 3/4 in. pipe.	@8¢ ft.	$ 88.
Drill steel.		$ 85.
6000lbs Dynamite.	@ $470. per ton	$1410.
3000X Blasting caps.		$ 70.
15000 ft fuse.		$ 180.
Gasoline and diesel fuel.		$ 560.
Lube. Oil		$ 65.
Compensation insurance.		$ 622.
Carbide.		$ 48.
Timber and lumber.		$ 300.
Nails.		$ 40.
Mucking plats.		$ 20.
Discharge hose.		$ 50.
Suction hose.		$ 30.
Foot Valve.		$ 6.
Small tools.		$ 200.
Assaying.		$ 100.
Surveying		$ 100.
Accounting .		$ 200.
Miscellaneous.		$ 400.
Detachable drill bits.		$ 150.
	Total	$5374.

SMITH AND RUGG
RAMBLER MINE
NEDERLAND COLORADO

10.

(a) Applicants are prepared to invest $6,592.50 in proposed project.

(b) According to our interpetation ofM.O.-5 the above amount is sufficient to pay our part of the cost of the proposed project.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2296

Date received 12-18-51

SMITH AND RUGG
RAMBLER MINE
NEDERLAND COLORADO

Name and address of applicant

Date December, 7th, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) ~~Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance~~, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

X 5

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 18 1951

4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☒ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
JOSEPH M SMITH	Managing Partner	/$25000/	$25000				
CHARLES A RUGG	Partner		$10000				
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues: Does not apply

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production: Does not apply

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

SMITH and RUGG

RAMBLER MINE

NEDERLAND COLORADO

I. Products.

(a) Tungsten Ore. (Ferberite)

(b) No known byproducts.

2. Rambler Mine. (Lower)

(a) Shafts. Working shaft 131 ft deep. 1st Level 50ft. 2nd Level 91ft deep.

(b) Drifts and Crosscuts. Total 465ft on 90ft level.

(c) Tunnels and Adits. None.

(d) Other. Several surface cuts and shallow shafts. Water being held 10ft below 90ft level with hoist and baler.
Mine makes water at rate of 7500 gals in 24 hrs.

3. (a) Located 1 mile south of Nederland Colo. ½ mile west of Colo. State Hiway 119.
Railroad three miles south at Rollinsville Colo.

(b) Grand Island Mining District,

(c) Section 24 Township 1 South Range 72 west.

(d) Boulder County Colorado.

Smith and Rugg
Rambler Mine
Nederland Colorado

4. (a) Mine being operated by Smith and Rugg as leasees.

(b) Leasees.

5. The Rambler Mine has been in operation since Aug.,1951 the operation being limited to de-watering, rehabilitation, prospecting and small production.

6. (a) The applicants, Joseph M. Smith and Charles Rugg have had 25 yrs and 15 yrs practical mining experience mostly in the district in which Rambler property is located.

(b) Managment. The project will be under managment of Joseph M. Smith as Manager-miner. Experience as follows,

1922 - 1930 Miner and Construction worker. Various times shifter, foreman and gen-foreman.

1930 -1933 Leasee of various Gold mines. Mostly in Boulder County, Colo.

1933 -1937 Supt for St. Joe Mining and Milling Co. Operating Grand Republic Mine and others. Production 100,000 tons gold ore.

1937 -1941 Gen-Supt. Vanadium Corp. of Amer. Operating Conger Mine and Mill, Rakeoff Mine and Others. Production this period appx. 40,000 units WO3.

1941 -1944 Defense Work.

1945 Mine foreman United States Vanadium Pine Creek California.

1946 -1950 Operating tungsten mines for self. Tanner and Smith. Production appx. 4,000 units WO3.

1951 Supt. Cold spring Tungsten Inc.

References.

Robert Sterling	Natl. State Bank Bldg. Boulder Colo.
William Loach	1st National Bank Boulder Colo.
Everett Gragg	Mercantile Bank and Trust Co. Boulder.
R.G.Sullivan	Minerals Engineering Co. Grand Junction Colo.
A.F. Boyd	" " " " "

SMITH AND RUGG

RAMBLER MINE

NEDERLAND COLORADO

7. History.

(a) To the best of our knowledge an accurate history of the Rambler Mine is not available due to its intermittent operation. I am quoting information gathered from reliable sources. Namely George Cowdery, present owner for some 35 years, William Todd, now deceased, Wm. Loach and others.

Total production from Rambler Mine since its discovery about 1905 is placed at $100,000. The ore was sold on market averaging only $7.00 a unit. This production taken from several open cuts, trenches and three shafts, all less than 100 ft. in depth, with one exception.

The Lower Rambler shaft was deepened to 131 ft. by Thos. Walsh and associates and considerable ore removed during World WarII. Manpower shortage closed the mine at this time.

Lower Rambler Shaft reopened in Aug., 1951 to deepest level or 91 ft. by Smith and Rugg. All workings accessible and exactly as shown on accompanying geological map by Ogden Tweto in 1943.

Considerable tonnage of low grade mill ore left by preceeding operators is disclosed on 90 ft. level but insufficient amount to finance deeper development work deemed feasible by operators.

Commercial value of ore in sight was proven by test run of 19 tons shot down, mineable width and milled by Smith and Rugg at mill of Tanner and Smith.

354 lbs. of 55% WO3 concentrates were recovered. The same mill will be available for any ores disclosed by the development program planned and a 60% concentrate produced by careful milling.

24 tons of Lower Rambler Dump milled at same mill produced 196 lbs. concentrates sold to Hetzer Mines settled at 55.90% WO3.

Smith and Rugg
Rambler Mine
Nederland Colorado

7. History.

(b) Adjoining Property.
The Cross Mine immediately south west along the same Rambler Vein was owned and operated various timesby Wolf Tongue Mining Co. from early 1900 until after World War II. Mr.Wm. Leach, manager of the company reports production in terms of W. as was costumary in earlier years. 91,000 lbs. W.

Quote Mr. William Todd Supt. Wolf Tongue Mining Co. (The Cross shaft was sunk on the outcrop caused by the junction of two veins and the orebody followed the junction down, dipping sharply to the northeast. At a depth of 125 ft. junction dipped on adjoining Rambler claim, not available to Company at that time. Cross shaft was sunk to 190 ft. or below the orebody)

Mr. Todd maintained orebody would continue down on Rambler property.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads: See 3

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities: See 5 MF 103

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

SMITH AND RUGG
(Name of company)

By Joseph M Smith
Charles R Rugg
(Signature of authorized official)

December, 7th, 1951.
(Date)

Partners.
(Title)

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.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

MINING LEASE

THIS AGREEMENT AND LEASE Made this 20th day of November, 1951 between GEORGE W. COWDERY of 420 Pine Street, Boulder, Colorado, of the First part, hereinafter called the Lessor, and JOSEPH M. SMITH and CHARLES RUGG, of Boulder, Colorado, parties of the second part, hereinafter called the Lessees.

WITNESSETH, That for and in consideration of the rents, royalties, covenants and agreements hereinafter expressed to be paid, kept and performed by the Lessees, the Lessor has granted, let and demised, and by these presents does grant, let and demise unto the Lessees all of the right, title and interest of the Lessor in and to the following described mining property and premises, situated in the Grand Island Mining District, County of Boulder, State of Colorado, to-wit:

The Rambler Lode Mining Claim, and

The Missing Link Lode Mining Claim, Survey No.18225-A.

TO HAVE AND TO HOLD the demised premises unto the Lessees, with the right to mine, extract and remove ore therefrom and to sell and dispose of the same as hereinafter provided for the term of five (5) years, commencing at noon on the 20th day of November, 1951 and ending at noon on the 20th day of November, 1956, subject to the terms and conditions of this agreement, unless sooner forfeited or determined through the violation of any of the terms, conditions, covenants or agreements hereinafter against the Lessees expressed or reserved.

The Lessees, for and in consideration of the demise of said premises, hereby covenant and agree with the Lessor as follows:

1. To enter upon said premises on the first day of the term hereof, and to work the same in a thorough and miner-like manner so as to take out the greatest amount of ore possible, with due regard to the development and preservation of said premises as a workable mining property and to unworked ground for future continued mining operations, and to the other covenants hereinafter expressed.

2. To work and mine the demised premises steadily and continuously from the first day of the term hereof with a force of at least two men working at least fifteen eight-hour shifts per month during the term hereof.

3. To repair and replace all old timbering upon the demised premises wherever it may become necessary, and to well and sufficiently timber said mine and mining premises wherever proper and necessary in accordance with good and safe mining practices.

4. To at all times keep the drifts, shafts, tunnels and all other workings on the demised premises thoroughly drained and clear of loose rock and rubbish; to stow no waste under ground without the written consent of the Lessor; and to properly care for all dumpings and tailings and prevent their accumulation upon any part of the demised premises remaining unworked.

5. To do no underhand stoping below the bottom level or winze; to do no stoping or breaking of ore rock within six feet of any working shaft; to make all shafts at least three and one-half (3½) feet by seven (7) feet in the clear, all drifts and tunnels at least six (6) feet high by three and one-half (3½) feet wide in the clear, and all winzes and raises at least three and one-half (3½) feet by seven (7) feet in the clear.

6. To allow the Lessor, and his agents, from time to time and at any time, to enter upon and into all parts of the demised premises for the purpose of inspection, survey, taking ore samples, or otherwise; and to give to the Lessor such assistance as may be necessary or proper to accomplish any such inspection, survey, sampling or otherwise.

7. To keep true and accurate record showing all ore taken from said premises and from which part thereof, the disposition thereof, the amount received therefrom, and a record of all assays of ore taken from said premises, together with complete maps of all development as the work progresses; said accounts, records and maps shall be open to the inspection of the Lessor, or his agents, at all times during ordinary business hours, and the Lessor shall have the privilege of making extracts therefrom or copies thereof.

8. To promptly pay for all labor, material and supplies to be done for, or furnished to, the Lessees, or any person or persons under them or in privity with them upon said premises; and if any lien be filed, or if the Lessees shall become insolvent or bankrupt, or make an assignment for the benefit of creditors, or if any part of the pay roll, or any other indebtedness incurred in connection with the operations of the Lessees shall remain unpaid for a period of thirty (30) days after the same shall become due and payable, the Lessor may, at his election, declare a forfeiture of this lease, as hereinafter provided.

9. To indemnify and save harmless the Lessor from any and all liability for any accident, injury or loss to any property, or to any party or parties whatsoever, arising out of, or incurred in connection with the operation or mining of

the demised premises for any reason whatsoever. To carry a proper amount of Workmen's compensation insurance for the purposes aforesaid, and to comply with all of the rules and regulations of any public or governmental authority having supervision or jurisdiction over the demised premises and the operations thereon.

10. To pay all general and production taxes levied and assessed against said property during the continuance of this contract.

11. To allow and pay to the Lessor, as royalty upon all ores mined, shipped or sold from the demised premises in any manner during the term hereof of the following (it being expressly understood and agreed that the Lessor reserves unto himself the property and the right of property in and to all ores mined and extracted from the demised premises during the term hereof), to-wit:

15% of the sale price of ore or concentrates sold.

On ore or concentrates sold under government regulation ores or concentrates to comply with government standards and rules.

Royalty to be deducted and sent to George W. Cowdery, 420 Pine Street, Boulder, Colorado.

12. To make no assignment of this lease or sublet the whole or any part of the demised premises without the written consent of the Lessor.

13. To preserve and redeliver to the Lessor quiet and peaceable possession of the demised premises, with the appurtenances and all improvements, machinery and buildings thereon in good order and condition, with all drifts, shafts, tunnels and passages thoroughly clear of loose rocks and rubbish and drained, and the ground and mines ready for immediate continued working

and mining, without demand or further notice, at the date of the expiration hereof, or at any time previous thereto, upon demand, upon the termination or forfeiture hereof; and in the event of any such forfeiture all fixed improvements, tracks, ties, piping and other appurtenances and material, used or installed by the Lessees on the demised premises shall thereupon revert to and become the property of the Lessor. (Machinery excepted).

14. Upon the failure of the Lessees to keep and fulfill any and all agreements and covenants herein expressed or implied, then and in that event it shall be lawful for the Lessor, his agents or attorneys, to declare the term hereof ended and this lease null, void and of no further force or effect, and with or without notice or process of law to enter upon and take possession of the demised premises and dispossess all persons occupying the same, with or without force, or, at the option of the Lessor, the Lessees and all persons found in occupation or possession may be proceeded against as being guilty of unlawful detainer.

15. Any notice given by the Lessor shall be deemed sufficiently served and shall be held to be binding upon the Lessees or any person holding or claiming to hold any interest in the demised premises through or under the Lessees, if the same is deposited post paid in a United States Post Office, addressed to the Lessees at Boulder, Colorado.

16. It is expressly understood and agreed that the Lessees may have the privilege of extending this lease for a further period of five years from the expiration date by giving to the Lessor sixty (60) days notice in writing prior to the expiration date of the Lessees' wish to extend the term of said lease, said notice to be addressed to the Lessor at 420 Pine

Street, Boulder, Colorado, the Lessor, however, having the right to reject the extension if the Lessees are in default in making any of the payments herein provided or in case the Lessees have violated any of the terms of this lease and fail to correct such violations upon notice as required herein.

17. Time is of the essence of this agreement, and this lease shall be appropriately construed to include each of the above named Lessors and Lessees, whether one or more and whether individuals, associations or corporations, and the terms and conditions hereof shall extend to, and be binding upon, the heirs, executors, administrators, successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have executed this Lease the day and year first above written.

George W Bowdey
Lessor.

Joseph M Smith

Charles R Rugg
Lessees.

LEGEND

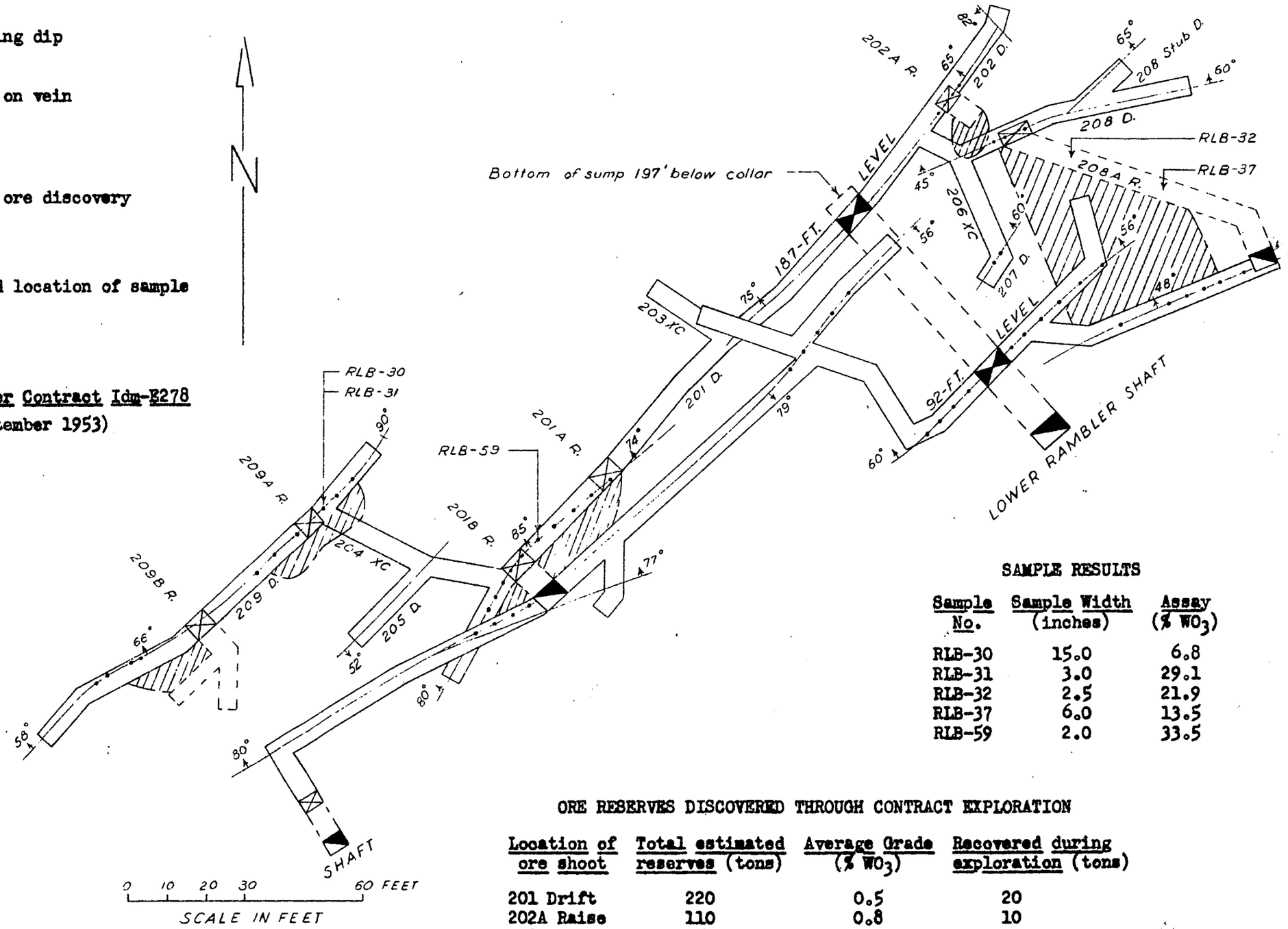
70° Vein showing dip

Ferberite on vein

Extent of ore discovery

RLB-30 Number and location of sample

N



Exploration Completed under Contract Idm-E278
(April 1952 to September 1953)

Footage

Sinking:	
Rambler shaft (162'-197')	35
Drifting:	
201 D.	153
202 D.	60
205 D.	24
207 D.	5
208 D.	59
208 Stub D.	16
209 D.	90
210 D.	18
	425
Crosscutting:	
203 XC	21
204 XC	50
206 XC	41
	112
Raising:	
201A R.	12
201B R.	83
202A R.	34
208A R.	118
209A R.	59
209B R.	62
	368

SAMPLE RESULTS

Sample No.	Sample Width (inches)	Assay (% WO_3)
RLB-30	15.0	6.8
RLB-31	3.0	29.1
RLB-32	2.5	21.9
RLB-37	6.0	13.5
RLB-59	2.0	33.5

ORE RESERVES DISCOVERED THROUGH CONTRACT EXPLORATION

Location of ore shoot	Total estimated reserves (tons)	Average Grade (% WO_3)	Recovered during exploration (tons)
201 Drift	220	0.5	20
202A Raise	110	0.8	10
208A Raise	550	1.0	70
209 Drift	110	0.5	60
209B Raise	90	0.5	40
Total	1,080	0.785	200

FIGURE 2 - PLAN OF RAMBLER MINE, BOULDER COUNTY, COLO. (CONTRACT Idm-E278, DMEA 2296)

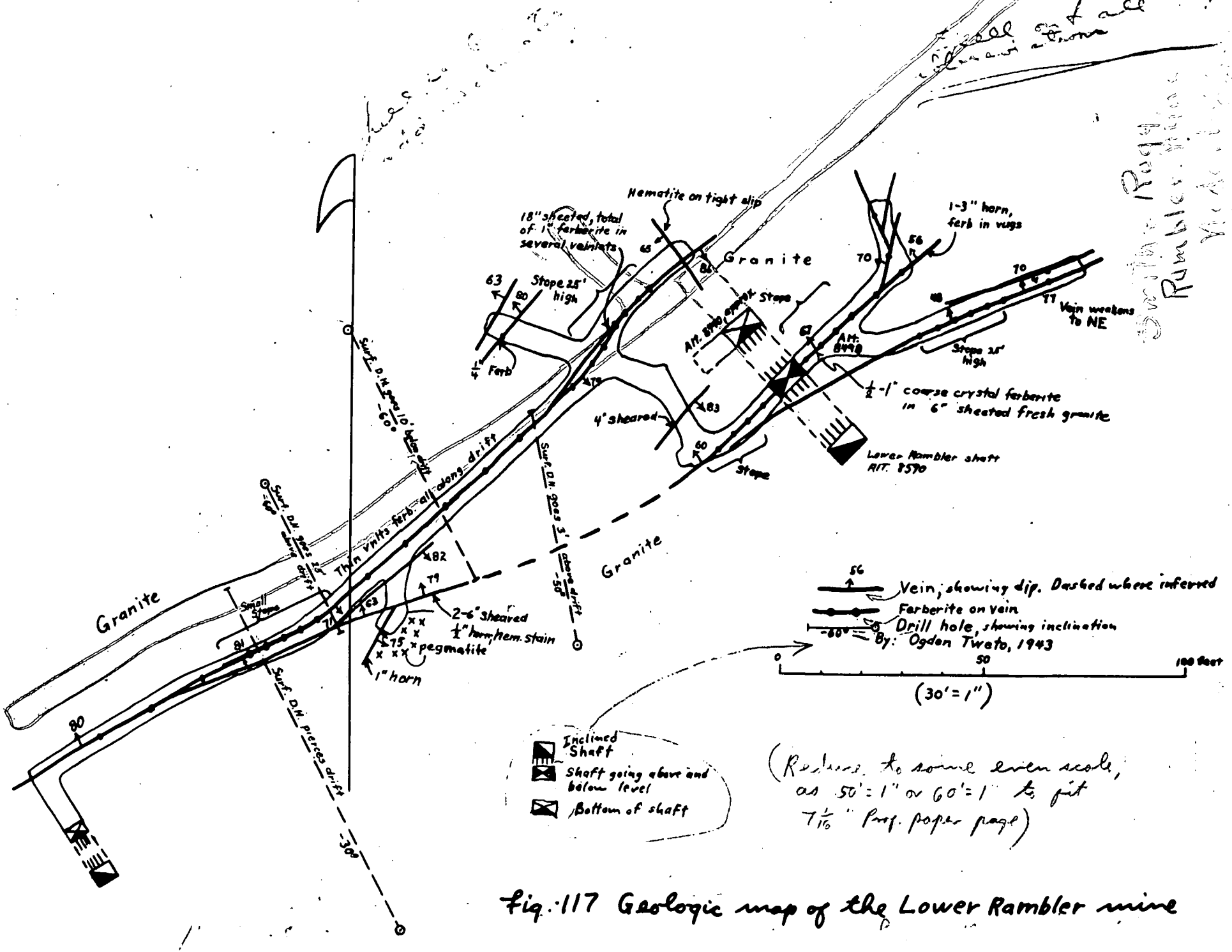
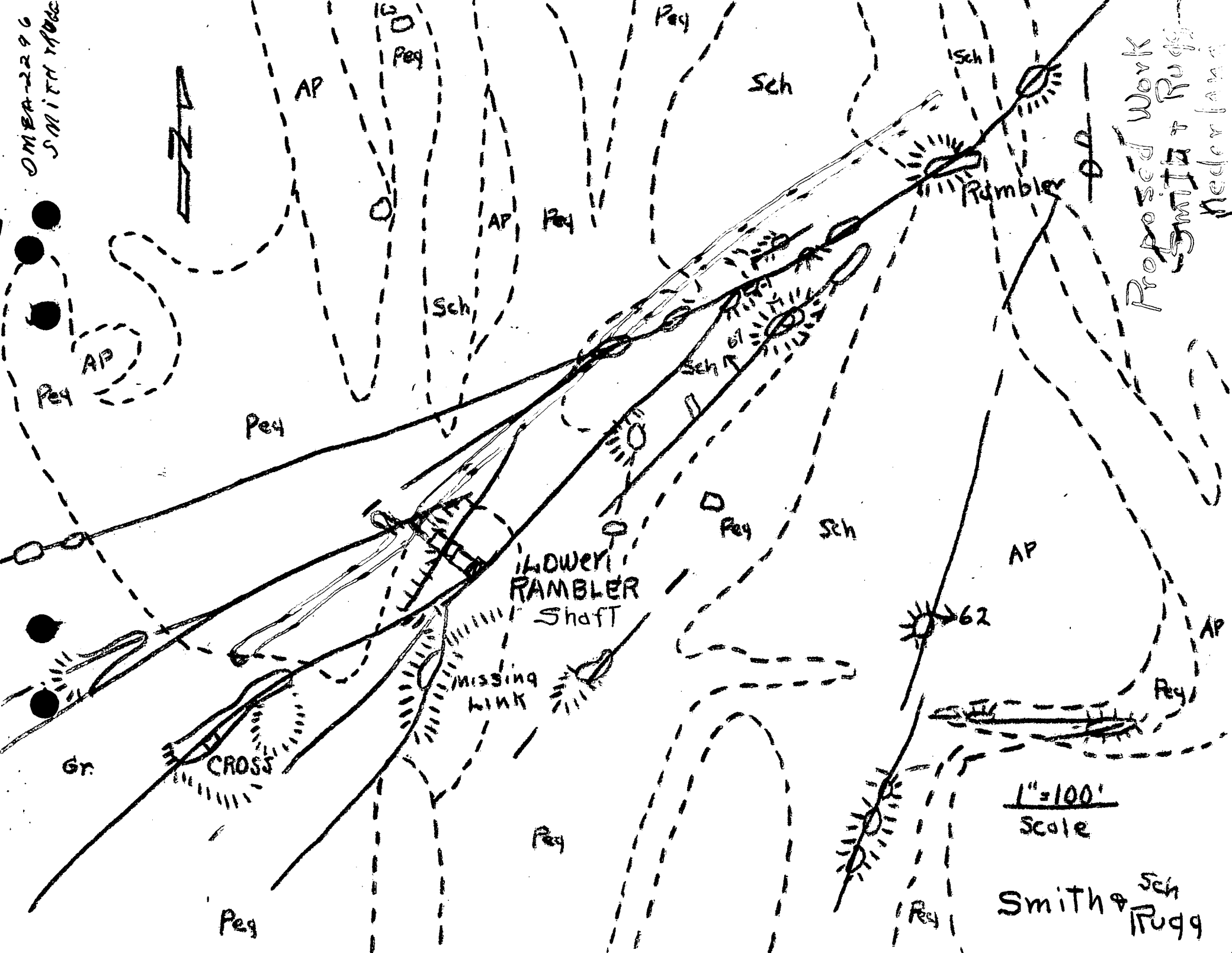


Fig. 117 Geologic map of the Lower Rambler mine


OMBA-226
SMITH MINE
Proposed Work
Smith + Rugg
Rambler
Lower
RAMBLER
Shaft
missing
link
CROSS
62
61
AP
Peq
Sch
Gr
1" = 100'
Scale
Smith + Rugg

400

DOCKET
SURNAME

Hopkins
Martin

March 17, 1954

MEMORANDUM Project Summary

To: Administrator

From: Iron and Ferro-Alloys Division

Subject: General summary of contract and results obtained
Docket No. DMEA 2296 - Tungsten
Rambler Mine
Boulder County, Colorado
Contract No. Idm-E278
Joseph H. Smith and Charles R. Rugg (a partnership)
Nederland, Colorado

1. Operator's Property Rights:
Leases - Lease from George W. Cowdrey, dated November 21, 1951.
Landlord's Subordination Agreement by George W. Cowdrey dated March 17, 1952.

2. Contract - dated March 17, 1952.

(a) Work authorized:
1. Repair hoist house and headframe.
2. Unwater and rehabilitate Lower Rambler shaft.
3. Sink shaft approximately 60 feet.
4. Drift 300 feet northeast on 200 foot level.
5. Drift 215 feet southwest on 200 foot level.
6. Crosscut 125 feet on 200 foot level.

Estimated working time is 14 months.

The following costs were estimated:

1. Rental of equipment	$1,400.00
2. Purchase of equipment	305.00
3. Depreciation of equipment	440.00
4. Labor, supervision, compensation	16,450.00
5. Supplies	5,805.00
Total estimated cost of project	$24,400.00
Government's participation at 75%	18,300.00

3. Amendments:
No.1. Dated June 12, 1952 amends the contract as follows: Exhibit "A", delete entire paragraph beginning with, "The proposed project consists of ..." and in lieu thereof insert the paragraph beginning with, "The proposed project consists of repairing hoisthouse and headframe..." and ending with, "...to the extent as approved by the DMEA Representative."

R.C.S. 3-22-54

No. 2. Dated August 7, 1952 authorized raising, not to exceed 50 feet, on 200-foot level at a point 35 feet northeast of shaft.

No. 3. Dated November 26, 1952 authorizes allocation of balance of funds from drifting and crosscutting to raising.

No. 4. Dated January 26, 1952 changes time to complete work from 14 months to 20 months.

Some of the above amendments were to be construed to increase the estimated total cost, the aggregate total amount the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Work Completed:

Drifting 425.5 feet @ $21.25/ft.	$9,044.50
Crosscutting 112.0 feet @ $24.05/ft.	2,693.39
Raising 368.0 feet @ $21.16/ft.	7,786.87
Sinking 35.0 feet @ $79.59	2,785.96
	$22,310.71
Rehabilitation	1,196.41
Total Cost of Project	$23,507.12
Government participation @ 75%	$17,630.34

Work was completed September 26, 1953.

4. Audit:
Audit certificate by the Contract Administration and Audit Division issued December 21, 1953.

5. Certification of Discovery issued March 1953.

6. Comments:
This project was established to explore for tungsten on the downward extension of a vein that had yielded considerable ore of commercial grade in the upper workings. The Rambler Shaft was deepened 35 feet and a new level was established at 187 feet - 25 feet below the previous lowest level. Drifts were driven in northeasterly and southeasterly direction on the new level. A short footwall vein was explored in the northeast drift and a vein parallel to the main structure was intersected by a crosscut into the hanging wall in the southwest drift.

Five small ore shoots were discovered during the exploratory work estimated to contain 1080 tons of ore having an average grade of 0.8% WO_3. The Field Team recommended certification. All shoots appear to pinch out with depth; therefore, no further work in the mine is recommended. The exploration work was carried out efficiently and as authorized under the contract.

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

JHopkins/fco 3-17-54
cc to: Administrator
Docket
Code 400
Operating Comm.

Yes Audited

Yes Certified

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of 12/10/1954
Incl. Voucher for

Yes Actual Cost

Agreed Unit Costs

Name Joseph M.Smith & Charles R.Rugg

Docket No. DMEA-2296

State Colorado

Commodity Tungsten

Idm-E No. 278

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting	640'	16,000.00	537.5'	11,720.50	11,767.53 21,89 f
Raising			373'	7,712.01	7,742.95 20.78 f
Shafts	60'	6,000.00	35'	2,722.46	2,733.39 78.10 f
Winzes					
Drilling (Specify)					
Surface Excavation					
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased		305.00		88.90	
Surface Rehabilitation & Repairs		250.00		66.84	66.84
Underground Rehabilitation		1,500.00		1,196.41	1,196.41
New Building, Improvements, etc.					
Other (Specify) Accounting,etc.		345.00			
Totals		24,400.00		23,507.12	23,507.12

4 Amendments

Prepared by TLC.

71626

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
3/22	Holt	500
	Brown	500
3/26	Dolan	140
	Brown	140
	App'l. Sol. Off.	
4/10	Talbert	800
4/11	Selfridge	120
4	Johnson	110
4/11	Fumich	100

220

APR 1 1 1962

Mr. George W. Cowdery
420 Pine Street
Boulder, Colorado

Re: DMEA-2296 (Tungsten)
Joseph M. Smith and Charles R. Rugg,
a partnership
Rambler Mine
Boulder County, Colorado
Contract Idm-E278

Dear Mr. Cowdery:

Enclosed is a self-explanatory letter of today to the Operator under the subject contract.

This correspondence relates to the Landlord's Subordination Agreement signed by you on March 17, 1952, under the Defense Minerals Exploration Administration program.

Sincerely yours,

George Fumich, Jr.

Director

Enclosure

SPHolt/gla
3-22-62
cc to: Director's Reading File
Region III (2)
Docket
Code 500

RECEIVED
MAR 3 1 62

43683

OFFICIAL FILE COPY

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

4/9		800
4/9		100
4/9		140
4/10	Nat. S.P.H.	500
"		
		220

Re: DMEA-2296 (Tungsten)
Smith and Rugg Lessees
Rambler Mine
Boulder County, Colorado
Contract Idn-5273

Mr. George H. Coudery
420 Pine Street
Boulder, Colorado

Dear Mr. Coudery:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Field Operations

Copies to: Docket
Region III

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since January 25, 1950, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☑

2. Since January 25, 1950, has there been any production from the land subject to the contract? Yes ☐ No ☑

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
X X		

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		None
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☑

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
X	X	

Submitted by:

Name George W Cowdery Title Owner

Address 420 Pine St Boulder Colo Date April 5, 1962

Dear Sirs,
Have not received royalty from Smith & Rugg since latter part of 1954 after sinking the Ramble Shaft they worked the developed ore out and let the mine fill with water and no one has worked there since 1954. There is no tungsten working in Boulder County at the present time George W Cowdery

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E
RECEIVED APR 5 1962
DATE

		120
4/5		800
		500
4/6		500
		220

April 2, 1962

Memorandum

To: George C. Selfridge, Chief
Division of Field Operations, OME
Washington 25, D. C.

From: Acting Field Officer, OME, Region III

Subject: DMEA-2296 (Tungsten)
Joseph M. Smith and Charles R. Rugg, a partnership
(Rambler Mine)
Boulder County, Colorado
Contract Idm-E278

This refers to your memorandum dated March 29, 1962, concerning the present status of the subject property.

Having no up-to-date information on this property, the three copies of MME Form 63 were forwarded today to Mr. George W. Cowdery, owner of the property.

T. M. Romslo

T. M. Romslo

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
3/28	Holt	500
		500
3/28	Talbert	800
3/29	[illegible]	130
"	Johnson	110
	[illegible]	100
		220
		500

MAR 2 9 1962

Memorandum

To: Acting Field Officer, Region III

From: Chief, Division of Field Operations

Subject: DMEA-2296 (Tungsten)
Joseph M. Smith and Charles R. Rugg, a partnership
Rambler Mine
Boulder County, Colorado
Contract Idm-K278

Enclosed are three copies of MME Form 63, addressed to Mr. George W. Cowdery, owner of the subject property.

Unless you have information more recent than January 25, 1960, on the status of the property, please forward the forms to Mr. Cowdery.

If you have up-to-date information from any source as to the present status of the property, please send such information to us as promptly as possible. The royalty repayment period has expired and we want to close our records on this old DMEA contract.

George C. Selfridge

(SPH)

Enclosures

SPHolt/gla
3-28-62
cc to: Director's Reading File
Review Committee
Docket

43683

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

January 22, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 25 1960

DATE	INITIALS	CODE
1-25	gad	220
1-25	[illegible]	800
1/26	[illegible]	500
		225

Mr. George W. Cowdery
420 Pine Street
Boulder, Colorado

Re: Docket No. IMEA 2296 (Tungsten)
Contract No. Idm-E278
Smith & Rugg Lessees
(Rambler Mine)
Boulder County, Colorado

Dear Mr. Cowdery:

In reference to the "Certification by the United States of America of a Discovery or Development under an exploration Project Contract" and the instructions in the Washington Office letter of transmittal of the Certification on the captioned project, please indicate your answer to the following questions and return one copy of the questionnaire immediately to this office.

Very truly yours,

Original signed by

J. W. Townsend
Executive Officer, OME
Field Team, Region III

1. Has the property been sub-leased or any change made in ownership other than this office has been notified? Yes ___ No ___. If yes, please furnish details of the transaction on a separate sheet and include a true or signed copy of any instrument that was executed in conjunction with the matter.

2. Has there been production from the land subordinated under the referenced contract since **January 1, 1959**? Yes ___ No ___. If yes, and shipments made, who was the purchaser? _____

3. Is any of the following material stockpiled? Yes ___ No ___.

(a) Ore, Tons _____ Estimated grade _____
(b) Concentrates, lbs. _____ Estimated grade _____
(c) Low grade ore, tons _____ Estimated grade _____
Place stockpiled _____

Signed _____

Title _____ Date _____

HMC:ltm cc: Chmn. Op. Comm., Roy. Corres. E278, Chron.

OME, REGION III

Interim

Statement in Lieu of ~~Semiannual~~ Report

on Certified Project

Reporting Period **1-1-59 through 1-25-60**

Docket and Contract Number **DMEA 2296, E278 (Tungsten)**

Operator **Smith & Rugg (Rambler mine)**

Boulder County, Colorado

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [X]

Remarks:

George Cowdery, owner, stated that there has been no work done on the property since 1956.

Signed H. M. Connors

H. M. Connors

Date **February 19, 1960**

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

February 18, 1958

DMEA
RECEIVED FEB 21 1958
2/21 C 220
21 Com 100
" 110
2/24 800
225

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 19[redacted] [redacted]ember 31, 1957

DMEA Docket 2296 (Tungsten)
Contract Idm-E 278, Joseph M. Smith and Charles R. Rugg (Rambler mine) Boulder County, Colorado

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

W H King

Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM:jy

cc: Semiannual Report File E 278
Harshman
DMEA,DFC (2)
Chron.

WHK

DMEA
DEPARTMENT OF THE INTERIOR

FEB 6 - 1958
REGION III
DENVER, COLORADO

DMEA, REGION III

STATEMENT IN LIEU OF SEMIANNUAL REPORT

Reporting Period July 1, 1957 to December 31, 1957
Docket and Contract Number Docket No. 2296, Contract Idm-E278
Operator Joseph M. Smith and Charles R. Rugg (Rambler mine)

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks:

The property has been inactive for the past two years.

Signed Carl Belser
Carl Belser

Date 1/29/58

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

July 11, 1957

OFFICIAL FILE COPY DMEA RECEIVED JUL 15 1957		
DATE	INITIALS	CODE
7-18	C	220
18	Com	100

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project ~~for the period~~ January 1, 1957 through June 30, 1957
DMEA Docket 2296 (Tungsten)
Contract Idm-E 278, Joseph M. Smith and Charles R. Rugg (Rambler Mine), Boulder County, Colorado

Enclosed are the original and ~~three~~ two copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

W S King
~~XXXXXXXXXXXXXX~~
Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM/vj

cc: Semiannual Report File E 278
RoyaltyFile E278
Harshman
DMEA/DFC
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
JUN 19 1957
REGION III
DENVER, COLORADO

DMEA, REGION III

STATEMENT IN LIEU OF SEMIANNUAL REPORT

Reporting Period Jan. 1, 1957 to June 30, 1957
Docket and Contract Number DMEA 2296-Idm-E278
Operator Joseph M. Smith and Charles R. Rugg
Rambler Mine

The project has been inactive during the reporting period [x]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks: The property was visited on June 17, 1957. The mine has not been operated for a year and one-half. The water level in the shaft is about 50 feet. An old hoist without a motor is installed, and an air-receiver is near the hoist house.

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 15 1957

DATE	NOTES	CODE

Signed W. J. Tesch Jr.
W. J. Tesch, Jr.

Date June 17, 1957

Form 7
-56)

OFFICIAL FILE COPY

Date	Surname	Code
3-4	Chambers	800
3/5	C	225

MAR -4 1957

Mr. Thomas H. Brading
DMEA Auditor
224 New Customhouse Building
Denver 2, Colorado

Re: Report of Royalty Review
Idm-E278, DMEA-2296
Joseph M. Smith & Charles R. Rugg

Dear Mr. Brading:

Receipt is acknowledged of your Report of Royalty Review covering the above-cited project.

The Report of Royalty Review is acceptable and normal distribution is authorized.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

WBorovies/wb
March 4, 1957

Copy to: Docket
Admr. Reading File
Mr. Chambers

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

224 New Customhouse
Denver 2, Colorado

Date: February 13, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1956 through December 31, 1956
DMEA Docket 2296 (Tungsten)
Contract Idm-E 278, Joseph M. Smith and Charles R. Rugg, (Rambler Mine), Boulder County, Colorado

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, ~~and~~ Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

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

Enclosures
MHM /vj
cc: Semiannual Report File E278
J. F. Shaw (2)
Harshman
Chron.

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 18 1957

DATE	INITIALS	CODE
2/19	Com	100
	C	220

DMEA, REGION III

STATEMENT IN LIEU OF SEMIANNUAL REPORT

DMEA
DEPARTMENT OF THE INTERIOR
FEB 13 1957
REGION III
DENVER, COLORADO

Reporting Period	July 1, 1956 to December 31, 1956
Docket and Contract Number	DMEA 2296 - Idm-E278
Operator	Joseph M. Smith and Charles R. Rugg Rambler mine

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks:

No work done for a year. Mine road was blocked by drifted snow at time examination was to be made.

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 18 1957

DATE	INITIALS	CODE

Signed D. E. Redmon
D. E. Redmon
Bureau of Mines

Date
February 6, 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

224 New Customhouse
Denver 2, Colorado

Date: October 8, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period January 1, 1956 through June 30, 1956
DMEA Docket 2296 (Tungsten)
Contract Idm-E 278, Joseph M. Smith and Chas. R. Rugg (Rambler Mine), Boulder County, Colorado

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, ~~and~~ Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

E. N. Harshman

XXXXXXXXXXXX
Acting Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM/vj
cc: Semiannual Report File E 278
J. F. Shaw (2)
E. N. Harshman
Chron.

DMEA, REGION III

STATEMENT IN LIEU OF SEMIANNUAL REPORT

DMEA
DEPARTMENT OF THE INTERIOR
OCT 4 1956
REGION III
DENVER, COLORADO

Reporting Period - **January 1, 1956 to June 30, 1956**
Docket and Contract Number - **DMEA 2296, Idm-E278**
Operator - **Joseph M. Smith and Charles R. Rugg**

Rambler Mine

	"X" one
The project has been inactive during the reporting period	X
Pertinent data relative to the subject contract has remained unchanged since the last report	

Remarks:

Shaft is full of water.

During the past six months the compressor has been moved off.

Boulder County is bulldozing several thousand yards of surface material from the area between the upper and lower Rambler shafts to use as road fill. There is a slight chance that some ore may be uncovered.

Signed

Carl Belser
Mining Engineer

Date

September 28, 1956

DMEA Form 18
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ANALYSIS OF SEMIANNUAL REPORT OF CERTIFIED PROJECT

Prepare in duplicate. File original in Official Docket. Send copy

To: Statistics Branch (Code 210)

From: Division of **Iron and Ferro-Alloys**

Report Period **7.1-12.31.55**

DMEA No.	Operator	Contract No.
2296	**Smith and Rugg**	**Idm-E278**

ORE ESTIMATES

	Tons	Analysis
DMEA	**1,080 ***	**0.785 % WO_3 ***
Operator to date	**None**	
Total	**1,080 ***	**0.785 " " ***
Production to date	**500 ****	**0.785 " " ****
Ore in ground	**580 ****	**0.785 " " ****

INVESTMENT **None reported**

Type	Size		Feet	Cost
Shafts				
Winzes				
Drifts and Crosscuts				
Raises				
Drilling	Type			
Rehabilitation	Description			

FACILITIES

Mine Plant		
Mill		
Roads		

REMARKS

*** Official reserve tonnage and grade.**
**** Reported production adjusted to "Official" grade.**

"Operator reported all ore considered of economic importance extracted by June 30, 1954."

Copy on copy to W. A. Chamberlain

Prepared by Stephen P. Holt Date 2.4.58
(rev. 4.3.58)

31398

400

RECEIVED
APR 27 1956

U. S. DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

224 New Customhouse
Denver 2, Colorado

Date: April 24, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty payments, DMEA Docket 2296 (Tungsten), Contract Idm-E278, Smith & Rugg - Colorado

w/ay

Period: March, 1956

During the above month the following royalty payments were received for ore or concentrates shipped from the subject property:

Lot No.	Dry Tons	Royalty Due	Royalty Pd.
		(NONE)	

Royalty

Totals:

Past Due Royalties Collected	None
Total Dry Tons (Ore or Cons.) Shipped to Date	6.945
Expiration Date of Royalty Repayment	March 17, 1962
Amount of Government Participation	$17,630.34
Total Royalty Payments to Date	$1,185.64
Percent of Loan Repayment	6.72%

W. M. Traver

W. M. Traver

vj

cc Royalty File E 278 w/Settlement Sheets
Monthly Royalty Payment File
~~T. A. Christensen~~
J. F. Shaw (2)
Chron.

Date 5/8/56

Referred to:

1. [redacted]
2. [redacted]
3. [redacted]
4. [redacted]
5. [redacted]
6. Dodge & Cox, Nelles and Wise

Note comments in report regarding:

1. Appears finished with some three 1/2 of estimated reserves remaining.
2. Grades?

Take appropriate action.

Action taken by Division:

WO_3

Reserve was 1080 tons @ 0.80% = 864 units

Shipments were - 6,945.0 tons concentrate containing 393.21 units

Still down
Know grade of ore in hole - where we assume to be .80

ROBERT E. ADAMS

S.P.H.

1080 x 0.80 = 864

```
   45.51
     864
    4320
   4320
  3456
393.2064
```

Grade of ore mined = 0.80

Grade of ore remaining = 0.80

Tons of ore remaining = 588

Units of WO_3 remaining =

1080 x 54.49 =

```
     108
   43592
  5449
  588492
```

```
  864
  394
  470
```

WSM 5/23/56

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

224 New Customhouse
Denver 2, Colorado

Date: May 15, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: ~~Semiannual~~ Annual Report of Certified Project for the period January 1, 1955 through December 31, 1955
DMEA Docket 2296 (Tungsten)
Contract Idm-E 278 Joseph M. Smith and Charles R. Rugg (Lower Rambler mine), Boulder County, Colorado

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office and Memorandum 29.

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

Enclosures
RDB/vj
cc: Semiannual Report File E 278
Royalty File E278
J. F. Shaw (2)
E. N. Harshman
Chron.

RECEIVED
MAY 17 1956

Semi-Annual Report of Certified Projects

DMEA
Date Rec'd.
APR 30 1956
BUREAU OF MINES
Denver, Colorado

Reporting Period January 1, 1955, to December 31, 1956

Docket and Contract Number DMEA 2296 Idm-E278

Operator Joseph M. Smith and Charles R. Rugg

Commodity Tungsten

Mine Name Lower Rambler mine

County and State Boulder County, Colo.

Date of Contract March 17, 1952

Date of Certification March 15, 1954

Expiration Date of Royalty Payments March 17, 1962

Date of Examination for this Report March 7, 1956

Total Amount of Contract $24,400.00

Total Expenditures under Contract $23,507.12

Amount of Government Participation at 75 % $17,630.34

Royalty Payments this Period None

Previous Royalty Payments $1,185.64

Total Royalty Payments to Date $1,185.64

% Loan Repayment Completed 6.72%

RECEIVED
MAY 17 1956

Amount of Royalty Due None

Royalty Remarks

Original Estimate of Reserves (from Final Engr.-Geol. Report): 864 s.t.u. WO_3

Increase of Reserves by work performed subsequent to expiration or termination of contract: None

Revised Estimate of Reserves:

Production this Period (Ore or Concentrates) None

Amount of Previous Production (since date of contract) 393.21 s.t.u. WO_3

Total DMEA Production to date 393.21 s.t.u. WO_3

% of Revised Reserves Mined 45.51%

Grade of ore mined ? " " " remaining ?

Production Remarks:

Note: On Uranium projects check with AEC to assure that our records are in agreement with theirs.

All of the ore which the operator considered of economic importance had been extracted by June 30, 1954, after which time, all operations were stopped and the property was abandoned. All of the ore produced from the discovery was concentrated in the operator's mill. The final lot of concentrates produced from this source was marketed August 27, 1954.

Other Remarks:

There were no signs of recent activity at the property when last inspected on March 7, 1956.

Signed R. L. Bolmer (Engineer)

R. L. Bolmer

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

224 New Customhouse
Denver 2, Colorado

March 28, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket 2296, Contract Idm-E278, Semi-Annual Report on Smith & Rugg, Boulder County, Colorado

Enclosed are four copies of the Semi-Annual Report on Contract Idm-E278.

W. M. Traver

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Period:	July 1, 1954, to December 31, 1954		
Docket No.:	DMEA 2296	Contract:	Idm-E278, dated March 17, 1952
Operator:	Joseph M. Smith and Charles R. Rugg P. O. Box 354 Boulder, Colorado		
Name and location of property:	Lower Rambler mine (Rambler and Missing Link claims--Survey No. 18225A) SW1/4 sec. 24, T. 1 S., R. 73 W., sixth principal meridian, Boulder County, Colorado		
Owner of property:	George W. Cowdery 420 Pine Street Boulder, Colorado		
Date project started:	April 7, 1952	Date project completed:	September 26, 1953
Contract amount:	$24,400.00	Amount spent:	$23,507.12
Government participation:	$17,630.34		
Estimate of reserves discovered:	1,080 tons averaging 0.8 percent WO_3		
Date certified:	March 15, 1954		

Remarks: Production operations at the property began upon the completion of the exploration project and were continuous until recessed in November 1953 due to winter weather. The mine was reopened and production resumed in April 1954. All of the ore which the operator considered of economic importance, had been extracted by June 30, 1954. Operations, thereupon, were stopped and the property abandoned. All of the ore produced from the discovery since has been concentrated in the operator's mill. The final lot of concentrates recovered from this source was marketed August 27, 1954. There were no signs of recent activity at the property when last inspected on January 4, 1955.

Production summary:

Date	Lot No.	Net Dry Weight (short tons)	WO_3 Content (short ton units)	Net Value	Government royalty (paid)
August 4,1953	Hetzer Mines 654	1.7790	98.7345	$5,627.87	$281.39
January 26,1953	GSA (8-414)-1	4.1405	237.2506	14,528.04	726.40
August 27,1954	GSA (8-414)-2	1.0255	57.2229	3,556.98	177.85
	Total	6.9450	393.2080	$23,712.89	$1,185.64

R. L. Bolmer

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

224 New Customhouse
Denver 2, Colorado

September 14, 1954

Memorandum

WSM

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Royalty - Smith and Rugg
Docket No. 2290, Contract No. E278, Colorado

Enclosed is settlement sheet covering ore shipped under Lot Number 2 by Joseph Smith and Charles Rugg to General Services Administration.

Also enclosed is check in the amount of $177.85 in payment of royalty on this shipment.

John F. Shaw
For W. H. King

Enclosure

mn

cc: Royalty File E278
Sec. to the Oper. Comm. (2) w/enc. settlement sheet
Traver w/enc. settlement sheet
Chron.

Royalty

GENERAL SERVICES ADMINISTRATION
DOMESTIC TUNGSTEN PURCHASE PROGRAM
ACCEPTANCE AND INVOICE

Date: August 27, 1954

Certificate of Authorization Number: C-414

TO: Smith & Rugg
Nederland, Colorado

COPY

Lot No. Two (2)

Subject to the terms and conditions of the Tungsten Regulation establishing the Government's Purchase Program for Domestic Tungsten Concentrates in lots of one ton or more, the Government accepts 2051 pounds (wet basis) of Tungsten Concentrates (Type A. Ferberite) containing 57.2229 short ton units of tungsten trioxide, delivered f. o. b. common carrier's conveyance at Nederland, Colorado, consigned to General Services Administration on B/L No. CS-434002. Such material has a moisture content of none % and analyses in a dry basis as follows:

	Percent		Percent
Tungsten Trioxide (WO3)	* 55.80	Molybdenum (Mo)	Less than .01
Tin (Sn)	Less than .10	Phosphorous (P)	.03
Copper (Cu)	.01	Sulphur (S)	.35
Arsenic (As)	Less than .01	Manganese (Mn)	.40
Antimony (Sb)	Less than .10	Lead (Pb)	.07
Bismuth (Bi)	Less than .10	Zinc (Zn)	.04

EVALUATION AND SETTLEMENT DATA

	Dollars
Base Price (Penalties indicated by asterisk (*)) — Per S. T. U.	63.00
Penalties: * 4.2% WO_3 below 60% at 20 cents for each 1.0%	.04
Total Penalties	0.04
Adjusted Base Price — Per S. T. U.	62.16

Gross Wt. 2062 Tare Wt. 11 Net Wt. 2051 pounds

Net Wet Lbs.		Moisture Content		Net Dry Lbs.		Percent WO3		Lbs. WO3		S. T. U. WO3		Adjusted Base Price		Payment
2051	−	None	=	2051	×	55.80	=	1144.458	or	57.2229	×	62.16	=	3,556.98

ACCEPTANCE

Received and Accepted by General Services Administration at Denver, Colorado

By (Type name)	Signature	Title
Stanley C. Greene	/S/ STANLEY C. GREENE	Acting Regional Director

For Use of Producer Only

INVOICE

To	Region Number	
General Services Administration	8	Denver Federal Center Building 41 Denver, Colorado

For		Dollars
Tungsten Concentrates delivered as indicated above	Royalty due Gov't, DMEA, 5% = 177.85 Total Amount Due	3,556.98
	Amount Due Producer = 3,379.13	

I certify that the above bill is correct and just and that payment therefor has not been received. The producer warrants that said material was mined in the continental United States.

Producer (Type name)	Date
Smith & Rugg	
By (Signature)	Title

GPO 832720 GSA-R8-263(4-

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Period: September 26, 1953 to June 30, 1954

Docket No.: DMEA 2296 Contract Idm-E278 (Tungsten)

Operator: Joseph M. Smith and Charles R. Rugg
P. O. Box 354
Nederland, Colorado

Name of mine: Rambler mine

County: Boulder County, Colorado

Date Certified: March 15, 1954

Contract amount: $24,400.00 Amount spent: $23,507.12

Government Participation: $17,630.34

Reserves: 847.8 S.T.U. WO_3

Remarks: Mining of the 208A discovery ore shoot began upon the completion of the exploration project. Most of the crude ore recovered earlier from the various exploration headings already had been milled by the operator and is represented by the concentrates marketed Aug. 4, 1953. The 208A ore shoot had been depleted by November 1953, and all operations at the property were suspended for the winter months. Crude ore recovered from the stope and the remainder of the exploration ore was milled during this period. The resulting concentrates were marketed January 26, 1954. About 3 tons of middling concentrates (± 8 percent WO_3) which required regrinding and a second concentration before they could be marketed, remained on hand.

Operations at the property were resumed in April 1954. The mine was unwatered to the 92-foot level and several narrow occurrences of ferberite along that level were mined. Later the 187-foot level was unwatered and an attempt was made to mine the remaining small ore shoots discovered during the project. Most of the latter proved too narrow for

economic extraction and the operator ceased all operations at the property on or about June 30, 1954. On the date of the last inspection, July 6, 1954, most of the operator's equipment had been removed from the property and the mine workings were being allowed to flood. Approximately 1 ton of concentrates, averaging slightly less than the minimum GSA specifications of 55 percent WO_3, were recovered from ore mined at the property during 1954. The operator will attempt to upgrade this material to GSA minimum specifications before disposing of it. A small tonnage of middling concentrates also remain on hand.

Production summary:

Date	Lot No.	Net Dry Wt. (short tons)	WO_3 Content (short ton units)	Net Value	Govt. Royalty (rec'd)
8/4/53	Hetzer Mines-654	1.7790	98.7345	$ 5,627.87	$ 281.39
1/26/53	GSA(8-414)-1	4.1405	237.2506	14,528.04	726.40
	Total to date	5.9195	335.9851	$20,155.91	$1,007.79

RLB/ici

400

DOCKET
Surname:
Hopkins
Martin
Luhan
Guild
Chambers
Putnin
Hoffland
Hedges
Selfridge
Johnson

MAR 15 1954

Mr. George W. Cowdery
420 Pine Street
Boulder, Colorado

Re: Docket No. DMEA 2296 - Tungsten
Joseph M. Smith and
Charles R. Rugg, a partnership
Rambler Mine
Boulder County, Colorado
Contract No. Idm-E278

Dear Mr. Cowdery:

Transmitted herewith for your information is a copy of the "Certification of Discovery or Development" issued as a result of the exploration program under the above-referenced contract. The property as set forth in the contract was leased to Joseph M. Smith and Charles R. Rugg, a partnership, by Mr. George W. Cowdery on November 20, 1951, and is the same property referred to in the Landlord's Subordination Agreement executed by you on March 17, 1952.

By the terms of the Exploration Project Contract and of the Certification, all production from the aforesaid lands from the date of the Exploration Project Contract is subject to the Government's percentage royalty as set forth in the contract until the sum of $17,630.34 is paid or until March 17, 1962, whichever occurs first.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

Enclosure

cc: Docket
Field Team, Reg. 4
Operating Committee
Adm. Read. File
Code 400 - Mr. Martin
Code 800 - Mr.Chambers
Code 110 - Mr. Johnson

cc: P. W. Guild, USGS
T. P. Thayer, USGS
R. W. Geehan, USBM
J. H. Hedges, USBM

JHopkins/ls
3/5/54

R.C.G. 3-15-54

Docket

Hopkins
Martin
Seaton
Guild
Chambers
Porter
Holland
Hedges

MAR 15 1954

Messrs. Joseph M. Smith and
Charles R. Rugg
P. O. Box 354
Nederland, Colorado

Re: Docket No. DMEA 2296 - Tungsten
Rambler Mine
Boulder County, Colorado
Contract No. Idm-E278

Dear Sirs:

Transmitted herewith is a "Certification of Discovery or Development" under Contract No. Idm-E278 on the property described in Article 2 of the Contract.

By the terms of the Exploration Project Contract and of the Certification, all tungsten and other minerals produced from the aforesaid mine from the date of the Exploration Project Contract No. Idm-E278, are subject to the Government's percentage royalty as set forth in the Exploration Project Contract until the sum of $17,630.34 is paid or until March 17, 1962, whichever occurs first.

Checks for reimbursing the Government for advances under the above-cited contract should be made payable to "The Treasurer of the United States," and transmitted to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, 224 New Customhouse Building, Denver 2, Colorado.

Royalty payments to the Government should be accompanied by suitable evidence, such as copies of settlement sheets, showing quantity and grade of the tungsten or other minerals sold, the name of the purchaser, and the price and charges certified to be correct by the purchaser.

You are requested to notify Mr. King of any changes in ownership or production rights that might have any effect on the Government's right to its percentage

R.C. 3-15-54

royalty. Also, if production ceases at any time for an extended period, please notify Mr. King at 6-month intervals that no production has been made when that is the case.

Sincerely yours,

L. O. Mittendorf

Administrator

Enclosure

ec: Docket
Field Team, Region 4
Operating Committee
Adm. Read. File
Code 400 - Mr. Martin
Code 800 - Mr. Chambers
Code 110 - Mr. Johnson
F. W. Guild - USGS
T. P. Thayer - USGS
R. W. Geehan, - USBM
JHHedges - USBM

JHopkins/ls
3/4/54

DOCKET

Hopkins
Martin
Guhan
Guild
Chamberlin
Porter
Hoffmann
Hedges
Selfridge
Johnson

MAR 15 1954

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

Re: Docket No. DMEA 2296 - Tungsten
Joseph M. Smith and
Charles R. Rugg, a partnership
Rambler Mine
Boulder County, Colorado
Contract No. Idm-E278

Dear Mr. Gumbel:

Enclosed is a copy of a "Certification of Discovery or Development" for the above-noted project.

Contract No. Idm-E278 was executed March 17, 1952. Expenditures up to $24,400.00 were authorized, of which the Government's share at 75 percent was $18,300.00. The cost of the work completed was $23,507.12, of which the Government's share at 75 percent was $17,630.34.

The exploration program was designed to explore the downward extension of ore shoots discovered and profitably mined in the upper part of the mine. The main inclined shaft was extended 35 feet below the 162-foot level and a new level established at a depth of 187 feet. Drifts were driven in easterly and westerly directions from the shaft. Ore shoots were discovered at two points in the main drifts and another shoot was found on a footwall split off the east drift. A crosscut driven north, into the hanging wall of the west drift, intersected a parallel vein. Drifting and raising on this vein disclosed two additional small ore shoots.

The exploration completed has disclosed five ore shoots having the following estimated reserves:

R.C.G. 3-15-54

Location of Ore Shoot	Total Estimated Reserves (tons)	Aver. Grade % WO_3	Recovered during Exploration (tons)
201 Drift	220	0.5	20
202 A Raise	110	0.8	10
208 A Raise	550	1.0	70
209 Drift	110	0.5	60
209 B Raise	90	0.5	40
	1,080	0.785	200

Note: The 200 tons recovered from the exploration headings during the project are included in the total estimated reserves.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

Enclosure

cc: Docket
FT, Reg. 4
Oper. Comm.
Adm. Read. File
Code 400 - Mr. Martin
Code 800 - Mr. Chambers
Code 110 - Mr. Johnson
P. W. Guild - USGS
J. H. Hedges - USBM
R. W. Geehan - USBM
T. P. Thayer - USGS

JHopkins/ls
3/4/54

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

402

Defense Minerals Administration
RECEIVED
FEB 17 1954

224 New Customhouse
Denver 2, Colorado

February 15, 1954

WSM

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Royalty-Smith and Rugg, Contract No. E278, Docket No. DMEA 2296, Colorado

Enclosed is copy of Acceptance and Invoice covering Lot No. 1, for ore shipped by Smith and Rugg.

Also enclosed is check in the amount of $726.40 in payment of royalty.

W H King
W. H. King

Enclosures

es

cc: Royalty File
Sec. to the Oper. Comm. w/enc. inv.
Traver w/enc. inv.
Chron.

Royalty

GENERAL SERVICES ADMINISTRATION
DOMESTIC TUNGSTEN PURCHASE PROGRAM
ACCEPTANCE AND INVOICE

January 26, 1954

Certificate of Authorization Number 8-414

TO Smith and Rugg
P. O. Box 354
Nederland, Colorado

Lot No. 1

Subject to the terms and conditions of the Tungsten Regulation establishing the Government's Purchase Program for Domestic Tungsten Concentrates in lots of one ton or more, the Government accepts 8,281 pounds (wet basis) of Tungsten Concentrates (Type A, Ferberite) containing 237.2506 short ton units of tungsten trioxide, delivered f. o. b. common carrier's conveyance at Nederland, Colorado, consigned to General Services Administration Denver Federal Center Denver, Colorado on B/L No. Truck GBL NO. GS 309680. Such material has a moisture content of none % and analyses in a dry basis as follows:

		Percent			Percent
Tungsten Trioxide (WO3)		* 57.3	Molybdenum (Mo)	less than	.01
Tin (Sn)	less than	.10	Phosphorous (P)	less than	.01
Copper (Cu)	less than	.01	Sulphur (S)		* .99
Arsenic (As)		.03	Manganese (Mn)		.40
Antimony (Sb)	less than	.10	Lead (Pb)		.05
Bismuth (Bi)	less than	.10	Zinc (Zn)		.03

EVALUATION AND SETTLEMENT DATA

	Dollars
Base Price (Penalties indicated by asterisk (*)) — Per S. T. U.	63.00
Penalties	
* 2.70% WO_3 below .60% at $0.20 for each 1.0%	0.54
* .49% S above .50% at $0.25 for each .10%	1.225
Total Penalties	$ 1.765
Adjusted Base Price — Per S. T. U.	$ 61.235

Gross Wt. 8,327 lbs. Tare Wt. 46 lbs. Net Wt. 8,281 lbs.

Net Wet Lbs.		Moisture Content		Net Dry Lbs.		Percent WO3		Lbs. WO3		S. T. U. WO3		Adjusted Base Price		Payment
8,281	−	none	=	8,281	×	57.3	=	4,745.013	or	237.2506	×	61.235	=	$ 14,528.04

ACCEPTANCE

Received and Accepted by General Services Administration at Denver, Colorado

By (Type name)	Signature	Title
Otto G. Klein		Regional Director

For Use of Producer Only

INVOICE

To		
General Services Administration	Region Number 8	Denver Federal Center Building 41 Denver, Colorado

For		Dollars
Tungsten Concentrates delivered as indicated above	Total Amount Due	$ 14,528.04

I certify that the above bill is correct and just and that payment therefor has not been received. The producer warrants that said material was mined in the continental United States.

Producer (Type name)	Date
Smith and Rugg	
By (Signature)	Title

E 270

GPO 82-3600098

GSA-R8-263(4-53)

Doc Rest

IN REPLY REFER TO:

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

Received
FEB 26 1954

February 26, 1954

WSM

Memorandum

To: W. S. Martin, DMEA

From: P. W. Guild, U. S. Geological Survey

Subject: DMEA 2296 (Tungsten), Contract Idm-E278, Smith and Rugg, Rambler Mine, Boulder County, Colorado

I concur in the recommendation that a discovery be certified for the subject property.

PWG

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

Defense Minerals Administration
RECEIVED
FEB 23 1954

224 New Customhouse
Denver 2, Colorado

February 18, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2296 (Tungsten), Contract Idm-E278, Smith and Rugg, Rambler Mine, Boulder County, Colorado

Reference is made to your letter dated February 15, 1954 wherein you request that the forwarding of the Field Team's final report on Contract Idm-E278 be expedited.

The Field Team's final report was forwarded to you by our memorandum dated February 11, 1954.

W. H. King

400

Rutledge
Martin
Selfridge
Johnson
Chamberlain

FEB 15 1954

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

Re: Docket No. DMEA 2296 - Tungsten
Smith and Rugg, Partners
Rambler Mine
Boulder County, Colorado
Contract No. Idm-E278

Dear Mr. King:

Reference is made to the subject contract and our letter of January 12, 1954.

Because the referenced contract is on the old form and the work under the project was completed September 26, 1953, the certification of discovery must be made before March 26, 1954. Therefore, it would be appreciated if you would give this matter your prompt attention and expedite our receiving the Field Team's final report.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

Philip W. Guild

Member, Geological Survey

Copy to: DOCKET
FT, Reg. 4
OPER. COMM.
CODE 400
ADM. READ. FILE
T. P. THAYER, USGS
R. W. GEEHAN, USBM

FARutledge/ls
2/12/54

R. C. S.
2-16-54

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 12 1954

224 New Customhouse
Denver 2, Colorado

February 11, 1954

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region IV

Subject: Docket DMEA 2296 (Tungsten), Contract Idm-E278, Smith and Rugg, Rambler Mine, Boulder County, Colorado

Enclosed are the following final reports pertaining to work performed under the subject contract:

1. Original and one copy of the operator's final report.

2. Original and three copies of the final geologic report by the U.S. Geological Survey.

3. Original and three copies of the final engineering report by the Bureau of Mines.

Work completed was in conformance with the contract and the operator has complied with all contract requirements. Final payment to the operator was processed by this office January 13, 1954, in conformance with the final report of review by the Contract Administration and Audit Division, dated December 21, 1953, which was released to this office January 12, 1954.

The exploration work consisted of repair of existing shaft house and head frame, underground rehabilitation, 35 feet of shaft sinking, 425 feet of drifting, 112 feet of crosscutting, and 368 feet of raising, at a total accepted cost of $23,507.25, in which the Government participated to the extent of 75% or in the amount of $17,630.34. The exploration work resulted in a discovery or development of tungsten ore for which a certification of discovery or development was recommended by this office by memorandum of December 14, 1953.

W H King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

Open Inc. Report

P. O. Box 354
Nederland, Colorado

OCT 31 1953

Mr. W. H. King
Department of Interior
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

Subject: Contract Idm - E 278
Docket # DMEA-2296

Dear Sir:

Please find enclosed herewith "Operator's Final Narrative Summary" covering subject contract which was terminated as of September 26, 1953. Three bids submitted by the Industrial Engineering and Supply Co., Tungsten Mining Co, and the operators--Smith and Rugg, for certain equipment and vent pipe are enclosed herewith. A bid by the operators at cost to the project for the rail and line pipe is also submitted.

Operator's Unit Cost and Progress Report (form 104a) and Operator's Monthly Report and Voucher (form 104) for the last month of operation, September 1-26, 1953 was submitted on or about October 13, 1953. You will note that the inventory of explosives and fuel remaining at the termination of the project on September 26th was deducted from the project cost and voucher in the amounts of $75.85 and $58.50 (at cost).

Sincerely yours,

SMITH and RUGG

By Joseph M Smith

Smith & Rugg
Contract Idm. E-278
DMEA - 2296
October 26, 1953

OPERATOR'S FINAL NARRATIVE SUMMARY

1. Operations at Rambler Mine under DMEA Contract started on April 7, 1952 and development continued until September 26, 1953, with shutdown November 30, 1952 to April, 1953 due to weather condition.

2. Shaft. Shaft pumped out, rehabilitated to bottom and sinking started 163.0 feet below collar. Sinking stopped at 197.0 feet as broken zone encountered and vein flattened sharply. Possibility of ore below this point not favorable. Station cut at 187.0 feet.

3. Drift S.W. #201D followed small but continuous vein with occasional spots of ferberite. Vein pinched out and drifting stopped at 153.0 feet from shaft. A cross cut was driven in hanging wall 43.0 feet southwest of shaft for 21.0 feet--cut small barren vein and work stopped here. Cross cut 204 beginning 133.0 feet southwest of shaft was driven 50.0 feet N.W., cutting veins at 15.0 feet and another at 50.0 feet. First vein #205 driven on 26.5 feet with only very small spots of ore showing. Second vein #209 contained two inches good ferberite where cut and was drifted on 92.0 feet S.W. and 21.0 feet N.E. Small but commercial ore exposed for length of 40.0 feet.
Raise #209-A was started on ore, and driven 47 feet on an incline to the N.E. Ore pinched out immediately above level. Three rounds shot S. W. over back of drift showed no ore. Possibilities above this raise are very poor.
Raise #209B was started at S.W. end of ore showing in drift and small ore followed up for distance of 47 feet. No improvement was found and only small production is expected.

4. Drift #202-D N. E. Vein very soft gougy granite, badly broken and difficult to follow. Vein was lost 30 feet from shaft and drift advanced additional 30.0 feet on small vein in hanging wall which pinched out entirely. Small ore at about 40 feet from shaft and raise #202-A started and run up 41.0 feet above track where small body of 0.8% ore found. Production expected above this point, but amount is unpredictable. Cross cut #206 driven 38 feet in foot wall where small showing of ferberite was cut and followed 7.5 feet. Ore not worth saving so no production expected here.
Shaft vein located in beginning of #206 cross cut and followed northeast for 61.0 feet where vein was lost again. Ore for a length of 6 feet was driven through and #208-A raise driven to connect with upper level. 70 tons 1.0% ore saved from this raise and it is expected additional 500 tons of 1.0% ore will be stoped immediately.

5. At this time, operators plan to mine and mill approximately 8 to 10 tons of 0.5% to 1.0% daily until weather prevents milling operation, which will be resumed again in the spring.
It is almost impossible to estimate these small erratic ore bodies

in Rambler Mine, but operators expect by mining all marginal ore bodies, much better ore will be located.

Considerable tonnage will be produced from upper level, which ore was developed by previous operators. Same to be included in DMEA loan shipments.

6. Total funds authorized per contract $24,400.00 of which $24,133.57 was expended as per final Operator's Progress Report submitted for September.

7. Crude ore taken out during development totaled approximately 200 tons netting 3558 pounds of milled concentrates of 55.5% WO_3 having a value of $5,627.87.

8. Estimated ore reserves to be produced
   200 tons 0.5%
   100 tons 0.8%
   480 tons 1.0%
   50 tons 0.5%
   50 tons 0.5%

9. Remaining Supplies and Equipment
   (a) Explosives and fuel - Cost $134.35 (deducted from costs on final operator's progress report)
   (b) Equipment - Jack Leg cost $198.90 (To be sold)
   Bid by Industrial Engineering & Supply Co. $75.00
   Bid by Tungsten Mining Co. 85.00
   Bid by Operators (Smith & Rugg) 110.00
   (c) 271 feet of Vent Pipe - Cost $170.09 (To be sold)
   Bid by Industrial Engineering & Supply Co. $59.95
   Bid by Tungsten Mining Co. 54.20
   Bid by Operators (Smith & Rugg) 72.80
   (d) 738 feet of water and air pipe and fittings - Cost $173.59
   Bid by Operators (Smith and Rugg) $173.59
   NOTE: Total cost of pipe as charged to project $344.26
   Cost of pipe listed in items (c) and (d) above $343.68
   (e) 1900# track and bolts - Cost $68.06
   Bid by Operators (Smith & Rugg) $68.06
   NOTE: Total cost of track as charged to project $ 83.20
   Difference of $15.14 was for timbering spikes erroneously charged to track account.
   (f) ½ set Proto Socket Wrenches - Cost of entire set $33.04 (to be sold)
   Bid by Industrial Engineering & Supply Co. 5.00
   Bid by Tungsten Mining Co. 6.00
   Bid by Operators (Smith & Rugg) 10.00

   NOTE: Copies of bids listed above are attached herewith.

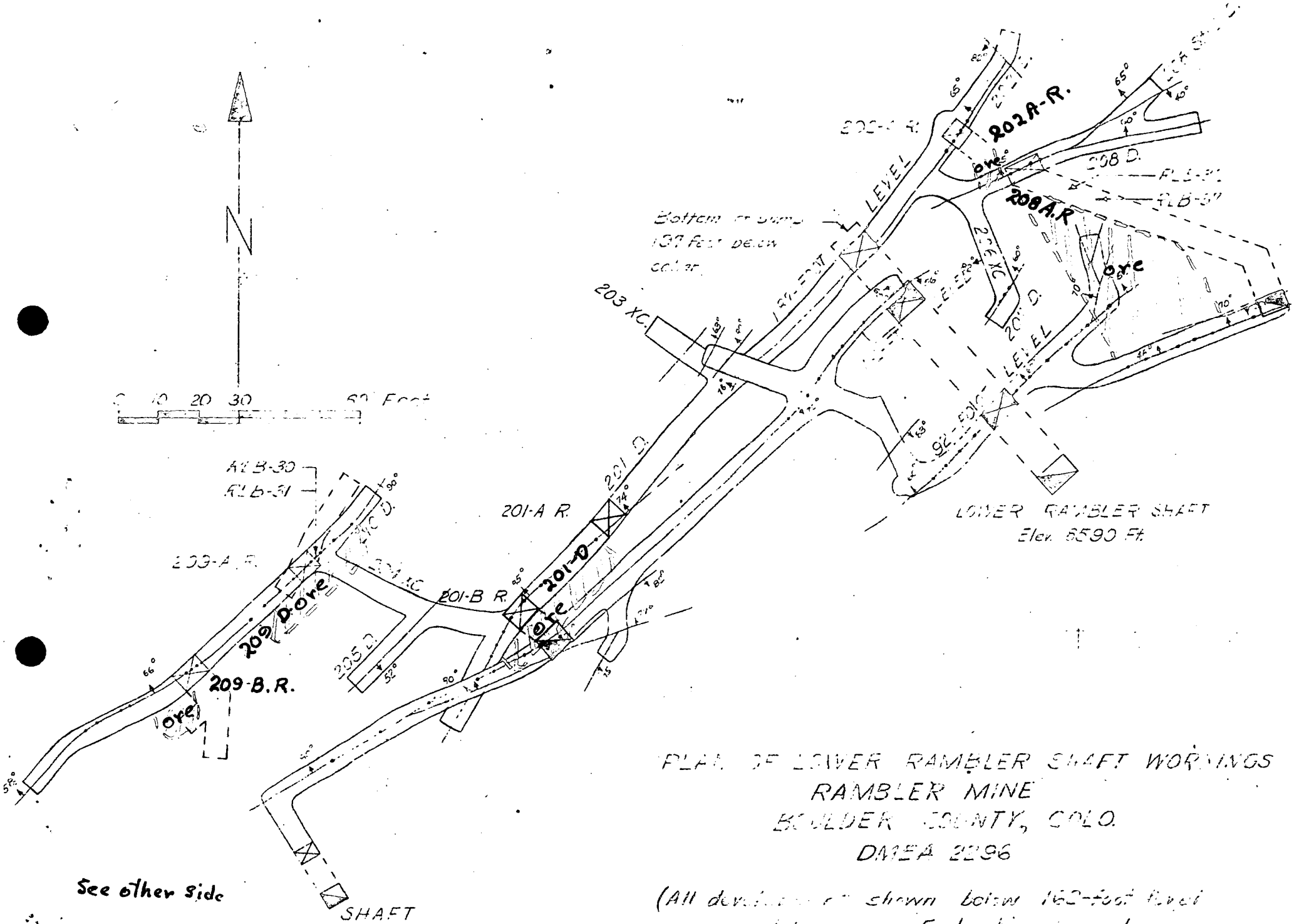
10. Project map showing work accomplished is attached.

11. In the event that the Government accepts the operator's bids as listed above totaling $434.45 for certain remaining equipment and supplies, authorization is given herewith to deduct the Government's equity therein from the final voucher.

12. Any additional information needed will be furnished upon request. The operators take this opportunity to express their appreciation for the cooperation of the representatives of the various Government agencies involved in this development project.

SMITH & RUGG

By Joseph M. Smith



PLAN OF LOWER RAMBLER SHAFT WORKINGS
RAMBLER MINE
BOULDER COUNTY, COLO.
DAREA 2296

(All development shown below 160-foot level was done under Exploration Project [illegible] 1.ani-E 273)

R.L. Bolmer

Production during development				Estimated ore reserves		
201 Drift	20 tons	0.5%		200 tons	0.5%	
202A Raise	10 tons	0.5%		100 tons	0.8%	
208A Raise	70 tons	1.0%		480 tons	1.0%	
209 Drift	60 tons	0.5%		50 tons	0.5%	
209B Raise	40 tons	0.5%		50 tons	0.5%	

Total after milling
3600# 55.5% Conc.

Nederland Colorado.
October, 15th 1953

The following tools, equipment etc, located at Rambler mine Purchased by Smith and Rugg under D.M.E.A. Contract, to be sold.

Item. No.	Description	Cost Price.	Bid Price.
3.	One Ingersoll Rand JL4 Jack Leg. (Used)	$198.90	85.00
4.	115' 8" Galv. Vent Pipe. (Used)	52.79	23.00
5.	156' 6" Galv. Vent Pipe. (Used)	117.30	31.20
6.	One #5400AB Proto ½" Socket Set. (about half complete)	33.04	6.00
			$145.20

Date of Bid. Oct 27 1953

Tungsten Mining Co
by George W Lowdey
Pres

Nederland Colorado.
October, 15th 1953

The following tools, equipment etc, located at Rambler Mine, purchased by Smith and Rugg under D.M.E.A. Contract, to be sold.

Item No.	Despription.	Cost Price.	Bid Price.
3.	One Ingersoll Rand JL4 Jack Leg. (Used)	$198.90	110.00
4.	115' 8" Galv. Vent Pipe. (Used)	52.79	26.00
5.	156' 6" Galv. Vent Pipe. (Used)	117.30	46.80
6.	One #5400AB Proto ½" Socket Set. (about half complete)	33.04	10.00
		Total	192.80

Date of Bid.
Oct, 18, 1953

Smith & Rugg.
Joseph M Smith

Nederland Colorado.
October,15th. 1953

The following bid presented by Smith and Rugg, Operators of Rambler Mine, on supplies purchased under D.M.E.A. Contract.

Item No.	Desptiption.	Cost Price.	Bid.
I.	1900# used mine rails.	$65.00	$65.00
	15# Track bolts.	3.06	3.06
2.	150' Used 2" Pipe	30.00	30.00
	98' Used 2½" Pipe	29.99	29.99
	290' Used 2" Pipe	73.95	73.95
	200' Used 1" Pipe	20.40	20.40
	3 1" Unions	4.04	4.04
	1 3" Foot valve	12.22	12.22
	1 3"x2" Bushing	58	.58
	1 3"x2½ Bushing	.43	.43
	2 2" 90 deg. Ells	1.98	1.98
		$241.65	$241.65

Smith and Rugg.

Date of Bid. Oct. 18, 1953

Joseph M Smith

BID ON EQUIPMENT LOCATED AT RAMBLER MINE

Nederland, Boulder County, Colo.

Smith & Rugg
Nederland, Colo.

Gentlemen,

We wich to bid as follows on the equipment held by you and owned jointly by you and the U. S. Government under a D.M.E.A. Contract.

1	Ingersoll-Rand JL4 Jack Leg.	(Used)	$75.00
115'	8" Galv. Vent Pipe	(Used)	28.75
156'	6" Galv. Vent Pipe	(Used)	31.20
1	#5400AB Proto 1/2" Socket Set. (about half complete)		5.00
			$139.95

INDUSTRIAL ENGINEERING & SUPPLY CO.

A. A. McCoy

A. A. McCoy

Date of bid 10/26/53

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

COPY

224 New Customhouse
Denver 2, Colorado

February 11, 1954

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region IV

Subject: Docket DMEA 2296 (Tungsten), Contract Idm-E278, Smith and Rugg, Rambler Mine, Boulder County, Colorado

Enclosed are the following final reports pertaining to work performed under the subject contract:

1. Original and one copy of the operator's final report.

2. Original and three copies of the final geologic report by the U. S. Geological Survey.

3. Original and three copies of the final engineering report by the Bureau of Mines.

Work completed was in conformance with the contract and the operator has complied with all contract requirements. Final payment to the operator was processed by this office January 13, 1954, in conformance with the final report of review by the Contract Administration and Audit Division, dated December 21, 1953, which was released to this office January 12, 1954.

The exploration work consisted of repair of existing shaft house and head frame, underground rehabilitation, 35 feet of shaft sinking, 425 feet of drifting, 112 feet of crosscutting, and 368 feet of raising, at a total accepted cost of $23,507.25, in which the Government participated to the extent of 75% or in the amount of $17,630.34. The exploration work resulted in a discovery or development of tungsten ore for which a certification of discovery or development was recommended by this office by memorandum of December 14, 1953.

/s/ W. H. King

/s/ A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
2-24-54
(date)

Final Field Team Rept

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 17 1954

February 10, 1954

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2296, Rambler Mine, Joseph M. Smith and Charles R. Rugg, Boulder County, Colorado

Attached are 9 copies of the final geologic report by D. R. MacLaren covering DMEA Docket 2296, Rambler Mine, Boulder County, Colorado.

Exploration, undertaken through a DMEA loan, resulted in the discovery of five tungsten ore shoots with an estimated tonnage of 1080 tons with an average grade of 0.8% WO_3. It is therefore recommended that a certificate of discovery be issued.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

Reviewed by
DMEA OPERATING COMMITTEE
2-24-54
(date)

RAMBLER MINE

BOULDER COUNTY, COLORADO

DMEA DOCKET 2296

Final Geologic Report

By D. R. MacLaren
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE

2-24-54
(date)

RAMBLER MINE
BOULDER COUNTY, COLORADO

Received
17 1954

INTRODUCTION

Under the terms of Contract Idm-E278, Joseph M. Smith and Charles R. Rugg, partners, were authorized by the Defense Minerals Exploration Administration to explore for tungsten in the Rambler Mine, two miles south of Nederland, Boulder County, Colorado. The Rambler Mine is in the SW 1/4 of sec. 24, T. 1 S., R. 73 W., 6th PM. The operators were to repair surface facilities, unwater the existing mine workings, rehabilitate and deepen by 50 feet the lower Rambler shaft, and to drift and crosscut a total of 640 feet. Subsequently an amendment to the contract provided for raising from the new level. The estimated cost of the project was $24,400 of which the Government's share was 75 percent or $18,300. The work, started April 7, 1952, was completed April 7, 1953, and resulted in the discovery of five ore shoots estimated to contain a total of 1,080 tons of ore having an average grade of 0.8% WO_3. No further exploration work in this mine is recommended.

GEOLOGY

The geologic setting of the Rambler mine was described by Ogden Tweto in the original report for DMEA Docket 2296. Irregular bodies of granite, pegmatite, and aplite intrude schist of pre-Cambrian age. Bodies of ferberite ore occur in a branching system of northeast trending veins, sometimes between walls of schist, but more commonly and as larger bodies, between walls of granite, aplite, or pegmatite. With a very few exceptions the veins dip 60° to 80° northwest.

As the shaft sinking progressed, the vein became weaker and tended to flatten. Therefore, it was decided not to sink more than 35 feet and to start the new 187-foot level at that depth, about 95 feet below the 92-foot level. Approximately 537 feet of drift and crosscut resulted in the discovery of five shoots containing sufficient ferberite to justify exploration by raising. The ore shoots on the level (figure 1) ranged from 5 to 8 feet long in the area northeast of the shaft and from 25 to 50 feet long in the area southwest of the shaft. For the most part the shoots are narrow, the widest being about 3 inches of ferberite in the 209 drift near the 204 crosscut.

Northeast of the shaft a 5-foot lens of ore in the 208 drift was followed by the 208-A raise. As raising progressed the ore shoot lengthened to a maximum of about 40 feet and continued as a good ore shoot to the 92-foot level. In the 202 drift an 8-foot lens of ore was followed by the 202-A raise for 34 feet. The ore was spotty but persistent and near the top of the raise a small high-grade shoot appeared to rake upwards toward the shaft. Two raises, 201-A and 201-B, were driven on a 60-foot ore shoot near the southwest end of the 201 drift, southwest of the shaft. The structure in the 201-A raise weakened and the ferberite died out at a height of 8 feet. The 201-B raise was in ore for 50 feet before the vein weakened. At a height of 63 feet ferberite mineralization again became strong and the vein junctioned with a second vein that contained up to 3/4 of an inch of ferberite. The raise followed the footwall vein and was in ore all the way to the 92-foot level. In the 209 drift, 209-A raise followed a 30-foot ore shoot until in pinched out at a height of 33 feet. Near the southwest end of the 209 drift, 209-B raise was driven to explore a 25-foot streak of ore that pinched out at a height of 47 feet above the level.

The total ore discovered on this project is conservatively estimated by the Bureau of Mines to be 1,080 tons averaging 0.8% WO_3 (figure 2, Final Engineering Report).

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that a significant discovery has been made as a result of this project, and it is recommended that a certificate of discovery be issued. Since the ore shoots discovered on the 187-foot level appear to pinch out at depth, no further exploration work is recommended.

Mining Division
Date Rec'd
DEC 15 1953
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 14, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Joseph M. Smith and Charles R. Rugg (Rambler mine), Boulder County, Colorado

Transmitted herewith are the original and eight copies of a final engineering report by R. L. Bolmer on the subject docket.

A significant discovery of tungsten ore, estimated conservatively as 1,080 short tons with an average grade of 0.8 percent tungsten trioxide, has been developed by the exploration project. Profitable production has resulted and will continue with a possibility of the extension of existing reserves, all subject to Government royalty.

Bolmer concludes the project was carried out efficiently and as authorized by the contract and amendments; costs incurred were reasonable and there is little likelihood of other ore bodies than those discovered existing at greater depths or elsewhere within the mine. Additional Government financed exploration is not recommended and probably will not be done with private capital.

The conclusions and recommendations have my approval.

W. M. Traver

W. M. Traver

Enclosure

WMT/le

cc 8
E278
Chron

Reviewed by
DMEA OPERATING COMMITTEE
2-24-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

FINAL ENGINEERING REPORT

DMEA 2296, Exploration Project Contract Idm-E278

Rambler mine

Joseph M. Smith and Charles R. Rugg

Boulder County, Colorado

Tungsten

R. L. Bolmer, Mining Engineer

December 7, 1953

Reviewed by
DMEA OPERATING COMMITTEE

2-24-54
(date)

DMEA 2296
Contract Idm-E278

RAMBLER MINE
JOSEPH M. SMITH AND CHARLES R. RUGG
BOULDER COUNTY, COLORADO

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Summary and Introduction 1
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ILLUSTRATIONS

Figure		Follows page
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DMEA 2296
Contract Idm-E278

RAMBLER MINE
JOSEPH M. SMITH AND CHARLES R. RUGG
BOULDER COUNTY, COLORADO

FINAL ENGINEERING REPORT

By

R. L. Bolmer

SUMMARY AND INTRODUCTION

Exploration Project Contract Idm-E278, authorizing certain exploratory work for tungsten at the Rambler mine, Boulder County, Colo., was completed September 26, 1953. A discovery of tungsten ore, estimated to contain 1,080 tons averaging 0.8 percent tungsten trioxide, resulted from exploration completed under the program. Commercial production from the discovery was feasible and was anticipated. The discovery was considered significant and its certification was recommended.

The contract, prepared on form MF-200 (June 1951) and dated March 17, 1952, was between the Government and a partnership comprised of Joseph M. Smith and Charles R. Rugg, P. O. Box 354, Nederland, Colo. The property rights listed therein, the adjoining Rambler and Missing Link lode mining claims, Survey No. 18225A, SW1/4 sec. 24, T. 1 S., R. 73 W., sixth principal meridian, Boulder County, Colo., were owned by George W. Cowdery, 420 Pine Street, Boulder, Colo. The property was leased to the partners until November 20, 1956, with renewal privileges and the owner subordinated his rights to those of the Government under the terms of the exploration project contract.

Work authorized under the contract included the repair of certain surface facilities, the unwatering of the existing mine workings, the rehabilitation and deepening by 60 feet of the lower Rambler shaft, and a total of 640 feet of drifting and crosscutting northeast and southwest from the shaft on a newly established 200-foot level. The contract was amended later to include raising from the new level. The agreed, estimated cost of the project was $24,400.00, in which the Government would participate to the extent of 75 percent, or $18,300.00 in certain authorized expenses as incurred.

Contract work commenced April 7, 1952 and, except for a winter recess between November 30, 1952 and April 16, 1953, was pursued continuously until all exploration considered favorable by the Defense Minerals Exploration Administration Region IV Field Team had been completed. Under the program the mine was unwatered, and the 162-foot lower Rambler shaft was repaired and deepened by 35 feet. A total of 537 feet of drifting and crosscutting and 368 feet of raising was performed on a newly established 187-foot level. The exploration completed and the ground benefiting therefrom was within the boundaries of the Rambler claim.

During the project, incurred costs totaling $23,941.57* were accepted by the Field Team as justified and allowable expenses of the authorized program. Materials and equipment, unexpended at the completion of the

---

* All costs shown in the final engineering report are subject to a final review or audit by the Contract Administration and Audit Division, Defense Minerals Exploration Administration, Region IV.

project, were disposed of for $434.45. The Government participated $17,630.34 in the net accepted costs of $23,507.12.

Approximately 200 tons of crude ore were recovered from exploration headings driven during the project. The material was milled by the operators and 3,558 pounds of concentrates assaying 55.5 percent tungsten trioxide were recovered. The gross value of the concentrates was $5,627.87, on which the Government received a total royalty of $281.39.

Project work was carried out efficiently and as authorized under the terms of the contract. The costs incurred by the project and accepted by Defense Minerals Exploration Administration were reasonable and justified expenses of the authorized program. Further exploration of the Rambler mine was not recommended.

LOCATION AND OWNERSHIP

The Rambler mine is in the SW1/4 sec. 24, T. 1 S., R. 73 W., sixth principal meridian, Boulder County, Colo. It is 2 miles south of Nederland, Colo., via State Highway 119 (fig. 1). The property, consisting of the adjoining Rambler and Missing Link lode mining claims, Patent Survey No. 18225A, is owned by George W. Cowdery, 420 Pine Street, Boulder, Colo. Cowdery has leased the property until November 20, 1956, with renewal privileges, to Joseph M. Smith and Charles R. Rugg, a partnership, of P. O. Box 354, Nederland, Colo. The partnership of Smith and Rugg is the Operator under Exploration Project Contract Idm-E278. The owner of the property has subordinated his rights to those of the Government under the terms of the contract.

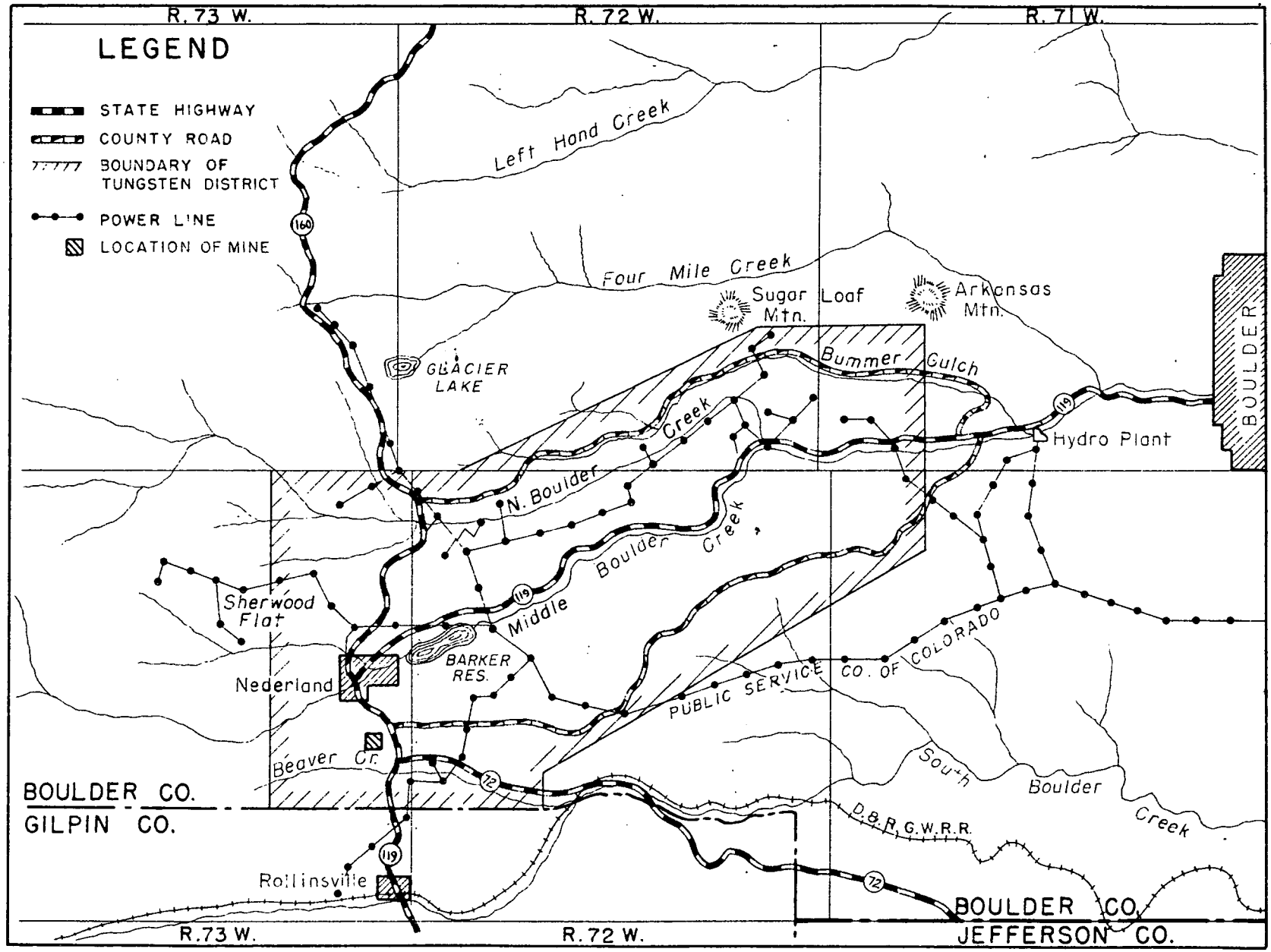


FIGURE 1. - LOCATION MAP, RAMBLER MINE, BOULDER COUNTY, COLO. (CONTRACT Idm-E278, DMEA 2296)

HISTORY AND PRODUCTION

The Rambler claim was worked to a small extent prior to World War I. Records are unavailable but production is believed to have been fairly substantial. Most of the output came from the upper Rambler shaft and from shallow surface workings between it and the lower Rambler shaft. The lower Rambler shaft was rehabilitated and most of the development from it was done in 1944 to reach veins indicated by Bureau of Mines exploration during the preceding year. No substantial ore body was discovered but ferberite was found in thin seams on several veins. A production of 45 units of tungsten trioxide was reported. Small but rich ore shoots have been mined from several properties adjoining the Rambler claim.

DESCRIPTION OF THE DEPOSIT

A steeply dipping, intersecting system of fissure veins strike northeasterly across the property (see fig. 1—Geological Report, Docket No. DMEA 2296). The veins in the upper Rambler shaft area were chiefly in schist and were productive to depths of 25 to 50 feet below the surface. In the lower Rambler shaft workings, the veins are mostly in granite which has been intruded by pegmatite and aplite. The ore in this area occurs for shorter distances along the veins but extends to greater depths. No well defined ore shoots, such as occur on adjoining claims, were discovered by development on the 92-foot level but smaller stopes were worked down to this depth at isolated places.

The existing development of the Rambler mine and the development completed during the exploration project are shown in plan on figure 2.

The development of the mine prior to the start of contract exploration included the 162-foot, two-compartment, inclined lower Rambler shaft and a single level turned northeast and southwest off the shaft at a depth of 92 feet below the collar. The water level occurred some 50 feet below the collar. There were no facilities on the property other than a headframe and a shaft house, both in disrepair.

WORK COMPLETED UNDER THE CONTRACT

Initial work under the contract commenced April 7, 1952, with the repair of the existing shaft house and headframe and the installation of the operator's surface equipment. Pumping from the shaft began as soon as a Diesel-powered generator had been installed. The shaft was found in fair condition but some rehabilitation--the reblocking of old timbers and the installation of new stulls, wall plates, and skids--was necessary as the water level was lowered.

The deepening of the lower Rambler shaft began during the last week in April, or as soon as the workings had been unwatered and the shaft repaired, and it had been sunk 35 feet to a depth of 197 feet below the collar by the middle of the following month. The vein was weak, barren of mineral, and had flattened considerably in the lower sections of the shaft and sinking deeper was considered unwarranted. A station was established at a depth of 187 feet and drifting towards both the southwest and northeast at this level was begun.

The extent of contract exploration on the new 187-foot level is shown on figure 2. A total of 425 feet of drifting, 112 feet of cross-cutting, and 368 feet of raising was completed on the lower level during

the project. (The 373 feet of raising reported on the operator's final MF-104A form cannot be reconciled.) Project work was recessed November 30, 1953, due to winter weather conditions. Work resumed April 16, 1953. Other than unwatering the workings, no rehabilitation work was necessary.

The shaft vein was explored to the southwest and the northeast by the 201 and 202 drifts. The vein was narrow and weak and died out short distances on either side of the shaft. A showing of ferberite on this vein, some 35 feet northeast of the shaft, was prospected to a height of 34 feet by the 202A raise. The mineral was spotty but improved somewhat with height above the level. A small ore shoot opened near the top of the raise appeared to rake upward towards the shaft.

About 80 feet southwest of the shaft, the 201 drift junctioned with a parallel footwall vein, which was mineralized. The vein was followed some 70 feet until it weakened and became barren. The vein was explored above the level by the 201A and B raises. The A raise was stopped after 12 feet when the structure weakened. The B raise was driven to connect with a 92-foot level drift. The vein on which the raise started, narrowed, became barren, and finally died out at a height of about 50 feet. The junction of two veins exposed along the 92-foot level was encountered about 63 feet in the raise. Both splits contained from 1/4 to 3/4 inches of high-grade ferberite. The raise followed the footwall split to the upper level. The mineral exposed in the final 20 feet of the raise continued above the back of the 92-foot level.

The 204 crosscut intersected two parallel hanging wall veins. The first, explored by the short 205 drift, proved barren. The second, a

15-inch vein containing up to 3 inches of ferberite at its intersection with the crosscut, was explored southwest and northeast by the 209 and 210 drifts. The vein and its mineral content weakened rapidly northeast of the crosscut and the 210 drift was stopped after 18 feet. The vein was followed southwest for 90 feet by the 209 drift. The vein gradually narrowed; its mineral content continued intermittently for nearly the full distance but gradually diminished in width.

Raises 209A and B were driven at the most favorable locations along the 209 drift. The A raise was begun vertically. The ore pinched out at a height of 22 feet and the raise was inclined at about 25° towards the northeast and extended 25 feet along the top of the ore exposed in the 210 drift. The ore was spotty, low grade, and died out near the end of the raise. Three rounds driven on an incline towards the southwest from a 12-foot height in the A raise disproved the upward extension of ore exposed directly below in the 209 drift. The B raise followed a thin seam of ferberite to a height of 47 feet. The upper portion of the raise was inclined somewhat towards the southwest. An inclined sublevel was begun towards the southwest, midway up the raise, to explore the top of the commercial mineral. The ore widened to about 1 inch but appeared to be raking downward into the 209 drift and the heading was stopped after 15 feet.

The 206 crosscut, driven into the footwall northeast of the Rambler shaft, intersected two veins. The farthest, a narrow vein containing minor amounts of mineral, was explored by the short 207 drift. The mineral did not continue and the drift was stopped. The other vein, a

footwall split of the shaft vein, was explored northeast by the 208 drift. The vein was narrow and, except for an 8-foot section along the back of the drift, was barren of mineral. The mineral, 1 to 3 inches of high-grade ferberite, was commercial and the 208A raise was begun to explore its extent above the drift. The ore shoot lengthened with height above the level and the raise was inclined northeast to follow the rake of its lower edge. The inclined raise passed beyond the eastern edge of the shoot some 95 feet above the 187-foot level. From that point, the raise was driven vertically on the vein in order to connect into the eastern end of a 92-foot level drift. The vein in the upper 23 feet of the raise was barren of mineral, the edge of the ore shoot occurring a few feet west of the raise.

Only occasional timber support was required along the 187-foot level. Raises were stulled and provided with chutes and ladder ways. Material broken in the headings was hand loaded in mine cars and trammed to the Rambler shaft, where it was hoisted by bucket to the surface. On the surface, the material was transferred to truck either for disposal on the dump or transportation to the operator's mill in Nederland, Colo. Part-time pumping from the shaft was necessary during the project. During later phases of the operation, it was necessary to provide mechanical ventilation.

One and sometimes two men were employed underground; a single employee performed all the surface work necessary for the operation. One of the partners, Joseph M. Smith, supervised project operations as well as performing surface or underground labor. The second partner

worked full time at mining or surface duties. Project work was performed efficiently and according to standard mining practice. The unit costs experienced for the various operations were considerably lower than the average for similar mining operations elsewhere in the district.

DESCRIPTION OF THE DISCOVERY

A small discovery of tungsten ore, conservatively estimated at 1,080 tons averaging 0.8 percent tungsten trioxide, resulted from the exploration program. The location, tonnage, and estimated grade of the five small ore shoots comprising the discovery are indicated on figure 2. Two-hundred tons of the estimated reserves were recovered from exploration headings during the project. The above estimate of reserves in the discovery was made in conjunction with the operator and corresponds with the tonnage and grade estimated in the operator's final report on the project.

High-grade ferberite mineral ($FeWO_4$), varying from a fraction of an inch to nearly 4 inches in width, occurs within the limits indicated for the ore shoots. The mineral is expected to average 1 inch in width. Spot sampling of the mineral within the shoots indicate it to average about 28 percent tungsten trioxide. Mining the average shoot to a width of 30 inches will result in a crude ore containing somewhat less than 1 percent tungsten trioxide. The ore concentrates readily without excessive milling losses. Its phosphorous content is negligible.

The 200 tons of crude ore recovered from exploration headings were milled by the operators and 3,558 pounds of concentrates assaying 55.5 percent tungsten trioxide were recovered. The gross value of the

concentrates was $5,627.87, on which the Government received a royalty of 5 percent, or $281.39.

Mining the discovery is economically feasible. By milling a ton of the average crude ore, the operators will recover about 12 pounds of 55 to 60 percent tungsten trioxide concentrates worth between $34.00 and $36.00. The operators, by performing most of the mining and all of the milling themselves, should be able to make wages, pay a royalty to the property owner and the Government, and net a nominal profit. Production from the discovery began upon the completion of project exploration and will continue until forced to recess because of winter weather. It is expected that operations will be continued in the spring of 1954. The reserves estimated for the discovery may prove conservative. The 208A ore shoot occurs in the footwall from the Rambler shaft vein. Along the 92-foot level northeast of the shaft the mineralized Rambler vein dips steeper than the 208A vein and junctions with the flatter footwall vein midway in the 208A raise. At the junction, the Rambler vein is mineralized similar to the 208A vein and it is possible that such mineral will continue to the 92-foot level. It is also possible that the 208A ore shoot will extend farther to the west than indicated in figure 2.

Narrow mineral also occurs along the back of the 92-foot level drift at a location above the 201B raise. It is marginal in its exposure along the level but may improve. The operator will attempt to mine it. This same vein, farther northeast along the 92-foot level (above the shaft) also shows narrow mineral along the bottom of the drift. The operator plans to develop this showing from lower in the shaft. The 202A ore shoot may extend higher and farther southwest than is shown on figure 2.

EXPENDITURES

The agreed, estimated cost of the project, in which the Government would participate 75 percent of certain authorized expenses as incurred, was $24,400.00. During the operation of the project, incurred costs reported by the operator were accepted by Defense Minerals Exploration Administration in a total amount of $23,941.57. The following items of cost incurred by the project were accepted:

Item of cost	Accepted amount
Labor and Supervision:	
Labor	$10,143.70
Supervision	4,816.00
Operating Materials and Supplies:	
Timber	56.33
Explosives	2,263.65
Pipe	344.26
Track	68.06
Miscellaneous supplies	2,706.35
Operating Equipment:	
Rental of equipment	1,363.45
Purchase of equipment	198.90
Depreciation of operator's equipment	525.40
Initial Rehabilitation and Repairs	66.84
Miscellaneous:	
Repairs to equipment	328.15
Sampling and analysis	15.00
Payroll taxes	85.62
Liability insurance	371.23
Accounting	575.75
Freight on equipment	12.88
	$23,941.57

The accepted items of cost were distributed to project operations as follows:

Operation	Accepted costs	Units completed	Unit cost
Drifting	$ 9,300.31	425 feet	$21.88
Crosscutting	2,693.39	112 feet	24.05
Raising	7,841.78	368 feet	21.31
Sinking	2,745.61	35 feet	78.45
Underground rehabilitation	1,094.74		
Total distributed costs	$23,675.83		
Purchase of equipment	198.90		
Surface rehabilitation, repair	66.84		
Total accepted costs	$23,941.57		

Unused supplies on hand at the completion of project work were inventoried at original cost and credited to the project account. The accepted project costs previously itemized reflect such an adjustment. The operator offered to purchase at its original cost all the pipe and track charged to the project. Such material was in place in the mine and was needed for production operations.

Three bids, of which the operator's was the highest, were submitted on the remainder of salvable project property. The operator's total offer and bid of $434.45, itemized below, was considered reasonable and was accepted by the Executive Officer, Defense Minerals Exploration Administration Region IV Field Team.

Description (Cost to project)	Offer or bid by Smith and Rugg
I--R, JL-4, Jack Leg ($198.90)	$110.00
271 feet, 6-inch and 8-inch vent pipe ($170.09)	72.80
1/2 set, Proto socket wrenches ($33.04)	10.00
738 feet, 1-, 2-, and 3-inch BI pipe, miscellaneous fittings ($173.59)	173.59
1,900 pounds mine rail, 15 pounds track bolts ($68.06)	68.06
	$434.45

The liquidation of salvable property reduced the net accepted costs of the project to $23,507.12 in which the Government participated 75 percent, or $17,630.34. Funds totaling $892.88 were unexpended from the estimated contract amount of $24,400.00. The Government's share of the unexpended contract funds was $669.66.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that the exploration project at the Rambler mine was carried out efficiently and as authorized under the contract. The costs incurred therein and accepted by Defense Minerals Exploration Administration were reasonable and justified expenses of the authorized program.

A significant discovery of tungsten ore, from which commercial production is feasible and is anticipated, has resulted from the exploration project. The Government is entitled to royalties on all production resulting therefrom. A certification of the discovery, as provided under the terms of the contract, is recommended.

The existence of sizeable ore bodies with depth in the Rambler mine has been disproved by contract exploration. Other areas in the mine, favorable for the occurrence of such bodies, are not apparent. Other small but high-grade shoots, such as were discovered during the project, may exist on the property but the value of these shoots probably would not defray the cost of their exploration.

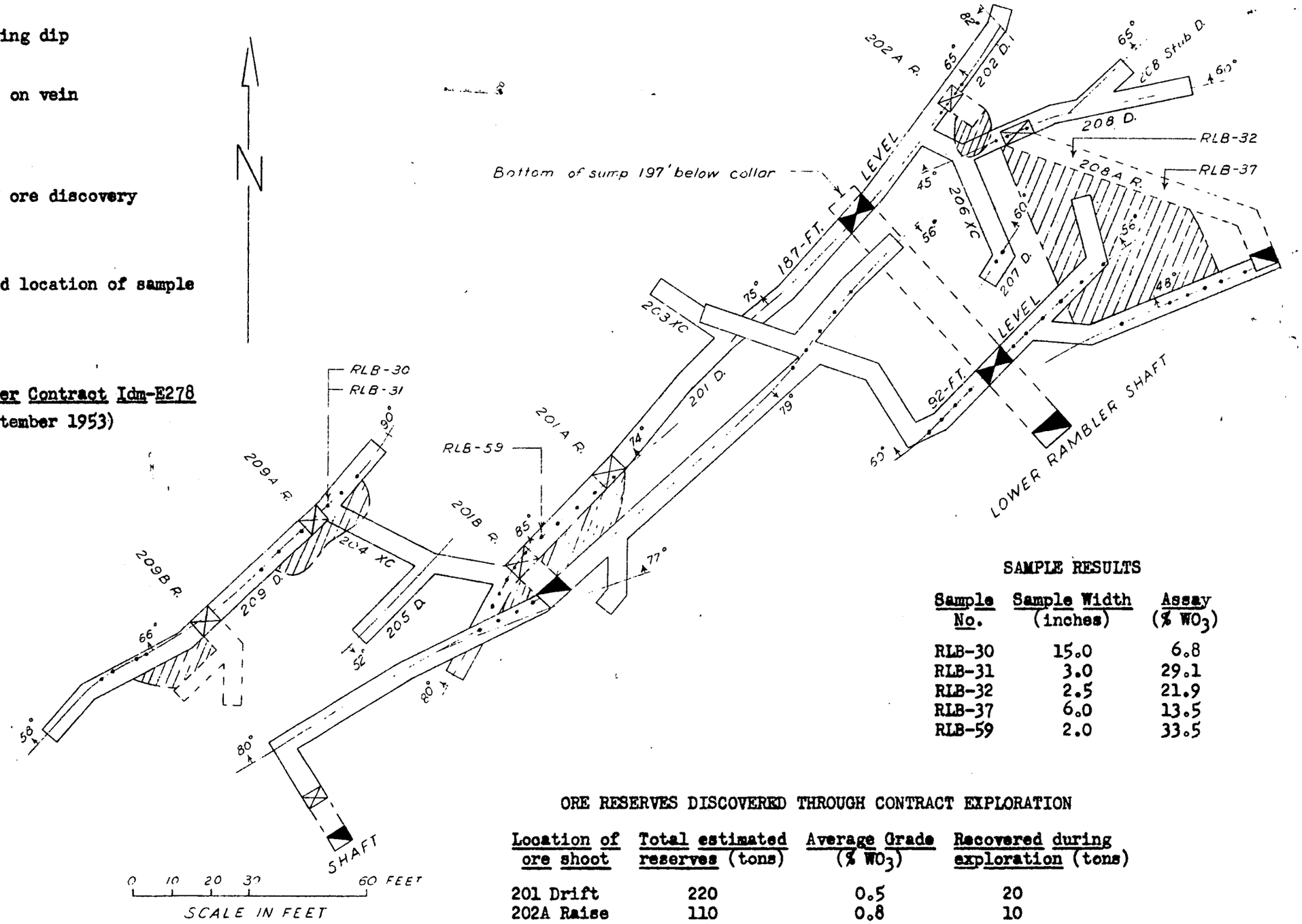
LEGEND

70° Vein showing dip

Ferberite on vein

Extent of ore discovery

RLB-30 Number and location of sample



Exploration Completed under Contract Idm-E278
(April 1952 to September 1953)

Footage

Sinking:	
Rambler shaft (162'-197')	35
Drifting:	
201 D.	153
202 D.	60
205 D.	24
207 D.	5
208 D.	59
208 Stub D.	16
209 D.	90
210 D.	18
	425
Crosscutting:	
203 XC	21
204 XC	50
206 XC	41
	112
Raising:	
201A R.	12
201B R.	83
202A R.	34
208A R.	118
209A R.	59
209B R.	62
	368

SAMPLE RESULTS

Sample No.	Sample Width (inches)	Assay (% WO_3)
RLB-30	15.0	6.8
RLB-31	3.0	29.1
RLB-32	2.5	21.9
RLB-37	6.0	13.5
RLB-59	2.0	33.5

ORE RESERVES DISCOVERED THROUGH CONTRACT EXPLORATION

Location of ore shoot	Total estimated reserves (tons)	Average Grade (% WO_3)	Recovered during exploration (tons)
201 Drift	220	0.5	20
202A Raise	110	0.8	10
208A Raise	550	1.0	70
209 Drift	110	0.5	60
209B Raise	90	0.5	40
Total	1,080	0.785	200

FIGURE 2 - PLAN OF RAMBLER MINE, BOULDER COUNTY, COLO. (CONTRACT Idm-E278, DMEA 2296)

Rutledge
Martin
Chandler
Selfridge
Hopson
Northcutt

JAN 12 1954

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

Re: Docket No. DMEA 2296, Tungsten
Smith and Rugg, Partners
Rambler mine
Boulder County, Colorado
Contract No. Idm-7273

Dear Mr. King:

Reference is made to the subject docket.

Because a Certification of Discovery or Development is being recommended, it would be appreciated if you would expedite our receiving final reports of Operator and Field Team.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (24B)

Approved:

J. H. Hedges
Member, Bureau of Mines (24B)

T. P. Thayer
Member, Geological Survey (24B)

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Oper. Comm.
Ad. Read. File
FT, Reg. 4
R. W. Geehan, USBM
T. P. Thayer, USGS

FARutledge/ls
1-7-54

R.C.S.
1-12-54

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 17 1953

224 New Customhouse
Denver 2, Colorado

December 14, 1953.

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Certification of Discovery - DMEA Docket No. 2296, Contract No. Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado.

Enclosed are four copies of a memorandum by a Bureau of Mines Engineer recommending a Certification of Discovery under Contract No. Idm-E278.

Also enclosed are four copies of a suggested Form A.

W. H. King

W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Bureau Mines Administration
DEC 18 1953

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 8, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado

Enclosed are the original and eight copies of R. L. Bolmar's memorandum recommending a Certification of Discovery or Development on the subject contract.

The original and three copies of a suggested Form A for your use in recommending the discovery to the Operating Committee are also enclosed.

I approve Bolmar's recommendations.

W. M. Traver

W. M. Traver

Enclosure

WMT/lo
cc 8
E278
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 7, 1953

Memorandum

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

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Certification of discovery

Exploration Project Contract Idm-E278, authorizing certain exploratory work for tungsten at the Rambler mine, Boulder County, Colorado, was completed September 26, 1953. The contract, prepared on form MP-200 (June 1951) and dated March 17, 1952, was between the Government and a partnership comprised of Joseph M. Smith and Charles R. Rugg, P. O. Box 354, Nederland, Colorado. The property rights listed therein, the adjoining Rambler and Missing Link Mining claims, Survey No. 18225A, SW1/4 sec. 24, T. 1 S., R. 73 W., sixth principal meridian, Boulder County, Colorado, are owned by George W. Cowdery, 420 Pine Street, Boulder, Colorado. The owner has leased the property until November 20, 1956, with renewal privileges to Smith and Rugg and has subordinated his rights to the Government under the terms of the exploration project contract.

Work authorized under the contract included the repair of certain surface facilities, the unwatering of the existing mine workings, the rehabilitation and deepening by 60 feet of the lower Rambler shaft, and a total of 640 feet of drifting and crosscutting northeast and southwest from the shaft on a newly established 200-foot level. The contract was amended later to include an unspecified amount of raising from the new level. The agreed, estimated cost of the project was $24,400.00 of which the Government would participate to the extent of 75 percent, or $18,300.00 in certain authorized expenses as incurred.

Contract work commenced April 7, 1952 and, except for a winter recess between November 30, 1952 and April 16, 1953, was pursued continuously until all exploration considered favorable by the Defense Minerals Exploration Administration Field Team, Region IV,

had been completed. Under the program the mine was unwatered, and the 162-foot lower Rambler shaft was repaired and deepened by 35 feet. A total of 537 feet of drifting and crosscutting and 368 feet of raising was performed on a newly established 187-foot level. The foregoing exploration and the ground benefiting therefrom occurred on the Rambler claim.

During the project, incurred costs totaling $23,941.59* were accepted by the Field Team as justified and allowable expenses of the authorized program. Materials and equipment, unexpended at the completion of the project, were disposed of for $434.45. The Government participated $17,630.34 in the net accepted costs of $23,507.12.

A small discovery of tungsten ore, conservatively estimated at 1,080 tons averaging 0.8 percent tungsten trioxide, resulted from the exploration program. The location, tonnage, and estimated grade of the five small ore shoots comprising the discovery are indicated on the attached plan of the Rambler mine. High-grade ferberite mineral, varying from a fraction of an inch to nearly 4 inches in width, occurs within the limits indicated on the plan. The mineral is expected to average 1 inch in width. Spot sampling of the mineral indicated its average grade as 28 percent tungsten trioxide. Mining the average shoot to a width of 30 inches will result in a crude ore containing somewhat less than 1 percent tungsten trioxide. The ore concentrates readily without excessive losses. Its phosphorous content is negligible.

Approximately 200 tons of crude ore were recovered from exploration headings driven during the project. The material was milled by the operators and 3,598 pounds of concentrates assaying 55.5 percent tungsten trioxide were recovered. The gross value of the concentrates was $5,627.87 on which the Government was paid a royalty of 5 percent, or $281.39.

Mining the discovery is economically feasible. By milling a ton of the average crude ore, the operators will recover about 12 pounds of 55 to 60 percent tungsten trioxide concentrates worth between $34.00 and $36.00. The operators, by performing most of the mining and all of the milling themselves, should be able to make wages, pay a royalty to the property owner and the Government, and net a nominal profit. Production from the discovery began upon the completion of project exploration and will continue until forced to recess because of winter weather. It is anticipated that operations will be continued in the spring of 1954.

---

* Costs shown are subject to a final review or audit by the Contract Administration and Audit Division, Defense Minerals Exploration Administration, Region IV.

A significant discovery of tungsten ore, from which commercial production is feasible and is anticipated, has resulted from this exploration project. The Government is entitled to royalties on all production resulting therefrom. A certification of the discovery, as provided under the terms of the contract, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

Attachment: Fig. 2 - Plan of Rambler Mine, Boulder County, Colo.

RLB/lo

cc
E278
Chron

21254-3

DEPT. OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 17 1953

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

FORM A

To:1/ Joseph M. Smith and Charles R. Rugg
P. O. Box 354, Nederland, Colorado.

Pursuant to the provisions of Exploration Project Contract No. Idm -E278, dated March 17, 1952, (Docket No. DMEA 2296), hereinafter called the "contract", between you and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien thereon and on the mineral deposit which is the subject of the exploration project, the Government considers and therefore certifies that a discovery or development has resulted from the work from which commercial production of ore may be made.

The Government's estimate of said discovery or development is particularly described and delimited as follows:

Several small but high-grade ferberite ore shoots occurring on veins exposed along and above a 187-foot level off the Lower Rambler shaft, Rambler mine, Rambler Lode Mining claim--Survey No. 18225A, SW1/4 sec. 24, T. 1 S., R. 73 W., sixth principal meridian, Boulder County, Colorado.

?

Dated: November 27, 1953

THE UNITED STATES OF AMERICA

BY _____
Administrator, Defense Minerals
Exploration Administration

1/ Insert full name of operator as it appears in the Exploration Project Contract.

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

FORM B

To:1/ _____

_____

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

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

_____

_____

_____

_____

_____

_____

Dated: _____

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals
Exploration Administration

1/ Insert full name of operator as it appears in the Exploration Project Contract

LEGEND

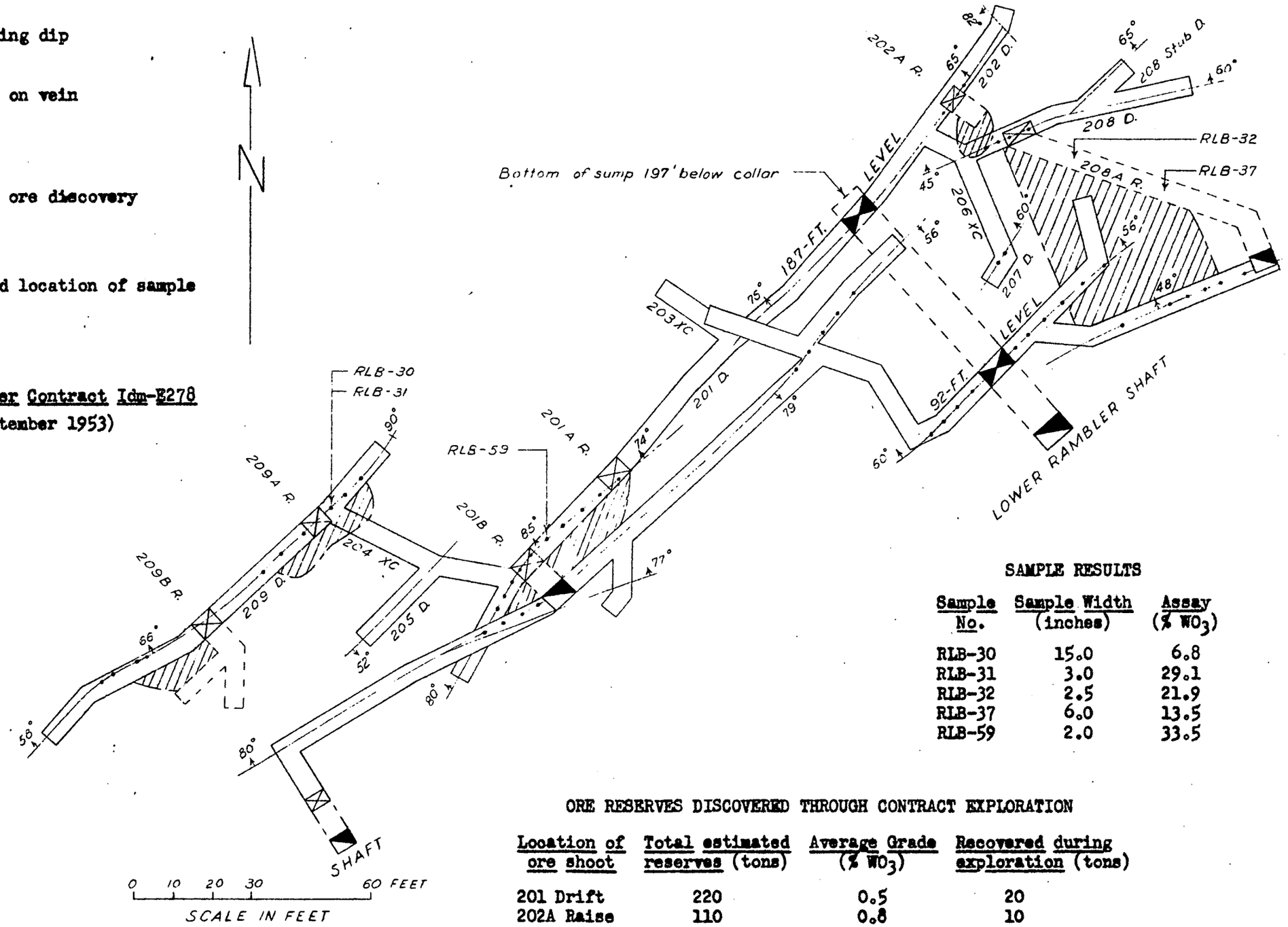
70° Vein showing dip

Ferberite on vein

Extent of ore discovery

RLB-30 Number and location of sample

N



Exploration Completed under Contract Idm-E278
(April 1952 to September 1953)

	Footage
Sinking:	
Rambler shaft (162'-197')	35
Drifting:	
201 D.	153
202 D.	60
205 D.	24
207 D.	5
208 D.	59
208 Stub D.	16
209 D.	90
210 D.	18
	425
Crosscutting:	
203 XC	21
204 XC	50
206 XC	41
	112
Raising:	
201A R.	12
201B R.	83
202A R.	34
208A R.	118
209A R.	59
209B R.	62
	368

SAMPLE RESULTS

Sample No.	Sample Width (inches)	Assay (% WO_3)
RLB-30	15.0	6.8
RLB-31	3.0	29.1
RLB-32	2.5	21.9
RLB-37	6.0	13.5
RLB-59	2.0	33.5

ORE RESERVES DISCOVERED THROUGH CONTRACT EXPLORATION

Location of ore shoot	Total estimated reserves (tons)	Average Grade (% WO_3)	Recovered during exploration (tons)
201 Drift	220	0.5	20
202A Raise	110	0.8	10
208A Raise	550	1.0	70
209 Drift	110	0.5	60
209B Raise	90	0.5	40
Total	1,080	0.785	200

FIGURE 2 - PLAN OF RAMBLER MINE, BOULDER COUNTY, COLO. (CONTRACT Idm-E278, DMEA 2296)

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

224 New Customhouse
Denver 2, Colorado

January 29, 1954.

Memorandum

To: Secretary to the Operating Committee

WSM

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket No. 2296 (Tungsten), Contract No. Idm-E278, Smith and Rugg (Rambler Mine), Boulder County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of September 1953.

Also enclosed are two copies of a memorandum to Mr. T. A. Christensen, dated January 13, 1954, relative to final payment under the terms of the subject contract.

Final payment to the Operator in the amount of $525.07 has now been made in conformance with the Report of Review by the Contract Administration and Audit Division dated December 21, 1953.

W. H. King

Enclosures

MF-104 Sept.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 1 1954

Administrative Audit Difference Statement

Date: January 20, 1954
Payee's
Reference: Final Report

September, 1953

Joseph M. Smith &
Charles R. Rugg
P O Box 354
Nederland, Colo
Idm-E278

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

Amount Claimed	$	1,326.52
Difference	$	626.45
Amount Approved	$	700.07

The reason for the difference was due to:

Workmen's Compensation Insurance disallowed by DMEA audit		$142.00	
Accounting charge in excess of contract		50.00	$192.00
Property Liquidation: Pipe	$246.39		
Track	68.06		
Other	10.00		
Equipment	110.00		434.45
			626.45

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

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

224 New Customhouse
Denver 2, Colorado

January 13, 1954.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket No. 2296 (Tungsten), Contract No. Idm-E278, Smith and Rugg (Rambler Mine), Boulder County, Colorado. Operator's Monthly Progress Report for the month of September 1953. FINAL PAYMENT

Enclosed are the original and four copies of Form MF-104 and MF-104A, Narrative Report and Engineer's Report for the above period, which constitutes the Operator's final accounting report under the terms of the contract.

Also attached to each Form MF-104 are data relevant to the liquidation of the jointly-owned property acquired under the contract.

Work has been accomplished as authorized in the contract and the Operator has complied with all requirements.

Final payment is recommended as follows, which is in conformance with the Report of Review by the Contract Administration and Audit Division, dated December 21, 1953, which was released to this office January 12, 1954.

Basis for Final Payment

Total Costs Reported by the Operator	$24,133.57
Charges Disallowed by the Government	192.00
Adjusted Costs	$23,941.57
Less Amount of Property Liquidation	434.45
Total Accepted Costs	$23,507.12
Government Participation at 75%	17,630.34
Total Prior Payments	17,105.27
Balance due the Operator	$525.07

Reconciliation with Amount Claimed on
Operator's MF-104 Report for Sept. 1953

Gross Amount Claimed	$ 1,326.51
Less Prior Disallowances not Deducted by Operator	192.00
Adjusted Balance	$ 1,134.51
Less Deduction of Amount of Property Liquidation	434.45
Balance	$700.06
Government Participation at 75%	525.05
Mill Adjustment	+ .02
Balance due the Operator	$525.07

W H King
W. H. King

Enclosures

JWT:cwm

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

224 New Customhouse
Denver 2, Colorado

November 13, 1953

Messrs. Joseph M. Smith
and Charles R. Rugg
Nederland, Colorado

Re: Docket No. DMEA 2296 (Tungsten)
Contract Idm-E278

Gentlemen:

Reference is made to your "Operator's Final Narrative Summary" dated October 26, 1953, which also included your bid and proposal, supported with copies of other bids you obtained, relative to the liquidation of property and the unexpended portion of materials and supplies acquired under the contract.

Consistent with the authority delegated to this office under Order No. 2684 from the Office of the Secretary, Department of the Interior, the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, does hereby accept your bid and proposal dated October 26, 1953, in the amount of $434.45, in the liquidation of property and the unexpended portion of materials and supplies acquired under Contract Idm-E278 which remained on hand at the completion of the project work.

The sum of $434.45, reflecting both yours and the Government's interest in the property, will be deducted from the gross amount of the final claim by you, held pending in this office for reimbursement under the terms of the contract, thereby automatically making a deduction from monies due you of the amount of $325.84, which is 75% of the gross amount of your bid.

Very truly yours,

W H King

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

JWT:jp
cc Contract
Chron
WMTraver
AHKoschmann
JWTownsend
MF-104 (5)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 12, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado -- Recommendations regarding the liquidation of project property.

Transmitted herewith are the original and seven copies of R. L. Bolmer's memorandum covering disposal of property on the Smith and Rugg project, Contract Idm-E278.

The recommendations have my approval.

The Operator's Final Narrative Summary Report and bids for equipment furnished with your memorandum of November 3, 1953, instructing us to submit our recommendations are enclosed.

for Scott W. Lyon
W. M. Traver

Enclosure

WMT/kp

cc 7
E278
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 6, 1953

Memorandum

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

From: R. L. Bolmer

Subject: RMRA 2296, Contract Idm-R278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado -- Recommendations regarding the liquidation of project property

The operator's final narrative report, dated October 26, 1953, includes an inventory of all operating materials, supplies, and equipment which were purchased under the provisions of the contract and which were unexpended and salvable at the completion of project work. Explosives and fuel oil on hand at the completion of contract work were inventoried October 1, 1953, and credited, at original cost, to the project account in the operator's final monthly progress report (September 1953).

Included with the operator's final report are three bids on the salvable property inventoried therein, excepting pipe and track. The operator has submitted his own separate offer for the pipe and track purchased under the contract.

The salvable project property, its original cost, and the various bids submitted thereon, are summarized below:

	Bids Submitted		
Description (cost to project)	Smith & Rugg (operator)	Industrial Engineering & Supply Company	Tungsten Mining Company
I-R, JL-4, Jack Leg ($198.90)	$110.00	$ 75.00	$ 85.00
271 feet, 6-inch and 8-inch ventilation pipe ($170.09)	72.80	59.95	54.20
1/2 set, Proto socket wrenches($33.04)	10.00	5.00	6.00
	$192.80	$139.95	$145.20

Description (cost to project)	Bids Submitted (Cont'd) Smith & Rugg (operator)	Industrial Engineering & Supply Company	Tungsten Mining Company
738 feet, 1 inch, 2 inch, and 2-1/2 inch used B.I. pipe; miscellaneous fittings ($173.59)	$173.59		
1,900 pounds, used mine rail; 15 pounds track bolts ($68.06)	68.06		
	$241.65		
	$434.45		

The $192.80 bid by operator on the jack leg, ventilation pipe, and socket wrenches is the highest of the three submitted on these items. His offer approximates 48 percent of the original cost of the property and is considered reasonable and just. The operator's separate offer of $241.65 for the pipe and track, which now is in place in the mine and which he needs for production operations, represents 100 percent of its purchase price.

The operator has bid a total of $434.45 on all the property considered salvable under the terms of the contract. His bid represents nearly 68 percent of the original purchase price of the salvable items. The operator's offer, the highest submitted, is considered reasonable and justified and its acceptance by the Executive Officer, DMEA Field Team, Region IV, is recommended.

Should his offer be accepted, the operator has indicated that the appropriate amount may be deducted from the final contract settlement due him.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/kp

cc 7
E278
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
October 21, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject; DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress Report for September 1953

Enclosed are the original and four copies of the subject progress report--forms MF-104 and MF-104A, with narrative, a plan map by the operator and one by the engineer, and required documentation--and the original and six copies of R. L. Bolmer's memorandum covering inspection of the underground progress and accounts. This is the final progress report on the project.

The 80 feet advance in raises 201B, 209A, and 209B, was verified and is correctly reported in the operator's narrative and entered on the MF-104A forms. The accounts are properly documented with costs distributed between exploration and production, and are approved within the limits of our delegated authority to check them.

A discovery can be certified and with submission of the required operator's, engineer's, and geologist's reports, determination of equities in equipment and supplies with an Audit Report by representatives of the Contract Administration and Audit Division, the contract can be closed in the usual manner.

Payment is recommended and certified on the MF-104 form of $994.89, or 75 percent of the total $1,326.52 claimed by the contractor, subject to usual Region IV audit.

Payment should be deferred until details concerned with termination of the project are completed.

W. M. Traver

WMT/cb
enclosures
cc: 4
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
October 19, 1953

Memorandum

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

From: R. L. Bolmer

Subject: DMSA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress Report for September 1953

The progress reported this period by the operator, an aggregate advance of 80 feet in the 201B, 209A, and 209B raises, was verified during an inspection of the property October 1, 1953. The progress has been reported correctly in the operator's narrative and on form MF-104A.

During the period, Raise 201B was connected with the 92-foot level drift. The vein in 201 drift, upon which this raise was started, narrowed, became barren, and finally died out at a height of about 40 feet. The junction of two veins exposed along the 92-foot level drift was encountered about 63 feet in the raise. Both splits of the vein contained from 1/4 to 3/4 inches of high-grade ferberite. The raise followed the footwall split to the 92-foot level. The mineral exposed in the final 15 feet of the raise continues above the back of the 92-foot level drift and may prove commercial.

A short inclined raise was driven southwest from a 12-foot height in the 209A raise. This raise disproved the upward extension of ore exposed directly below in the 209 drift. A similar raise was started southwest from the 209B raise. The advance was begun on a narrow showing of ferberite exposed at a height of 20 feet in the B raise but not present below in the drift. The mineral widened to about an inch in width and appeared to be raking southwest and downward into the 209 drift. The small lense of ore that was indicated by this work probably will be extracted.

As exploration possibilities on the 187-foot level of the Rambler mine had been exhausted and as the funds authorized for exploration essentially had been expended, it was mutually agreeable between the operator and the DMEA representative that the contract be terminated. The final work, that which was reported for the September period, was completed September 26, 1953. Immediately thereafter, the operator began production operations on several narrow, but high-grade, lenses of ferberite discovered as a result of contract exploration. The ore shoot opened between the 187- and 92-foot levels by the 206A exploration raise was being stoped on the date of inspection. The included "Plan of Lower Rambler Shaft Workings" indicates the work completed under the contract. A certification of discovery will be recommended.

Unexpended supplies on hand October 1, 1953, were inventoried and credited to the project account in the September report. Fuel and explosives were the only unexpended supplies on hand which had been purchased with contract funds. Labor costs beyond September 26, 1953, were not charged to the project. Minor operating supplies, rental and depreciation of equipment, and workmens compensation during September have been prorated to contract and non-contract accounts on the basis of the days worked on exploration and production. The amount of such items not applicable to the project during the three days of non-contract work in September is small and the method of proration is acceptable. An accounting charge, incurred in October for final work on the project account, has been included with the final or September report. The charge is justified and is approved.

Substantiated costs totaling $1,326.52 are reported in the prescribed manner on the final MF-104 form. The work accomplished during the period is as authorized under the contract and the costs incurred therein are considered reasonable and justified. Payment of 75 percent of the amount reported on form MF-104, or $994.89, is recommended, subject to review by the Regional Office and verification of the applicable rates and the arithmetical accuracy of computations.

Final payment should be withheld pending the completion of all details pertinent to the termination of the subject contract. It appears that a jack-leg, purchase price $198.90, and pipe and track in the amounts of $344.26 and $83.20, are the only items which will be salvable under the terms of the contract.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/cb

cc: 6, E278, DMEA Chron.

SMITH & RUGG
DMEA - 2296
CONTRACT Idm - E278
September, 1953

NARRATIVE REPORT

1. 201-B Raise - Advanced from 37.0 ft. above track to hole through to upper level. Small ore upper 15 ft. of Raise - Advance 53.0 ft.

2. 209-A Raise - Three rounds shot south-west beginning 12 ft. above track. No ore found over small ore showing in drift below. - Advance 12.0 ft.

3. 209-B Raise - Incline raise driven south-west from main raise beginning 20 ft. above track and advanced 15.0 ft. on small ore. No ore showing in back of drift directly below. Advance 15.0 ft.

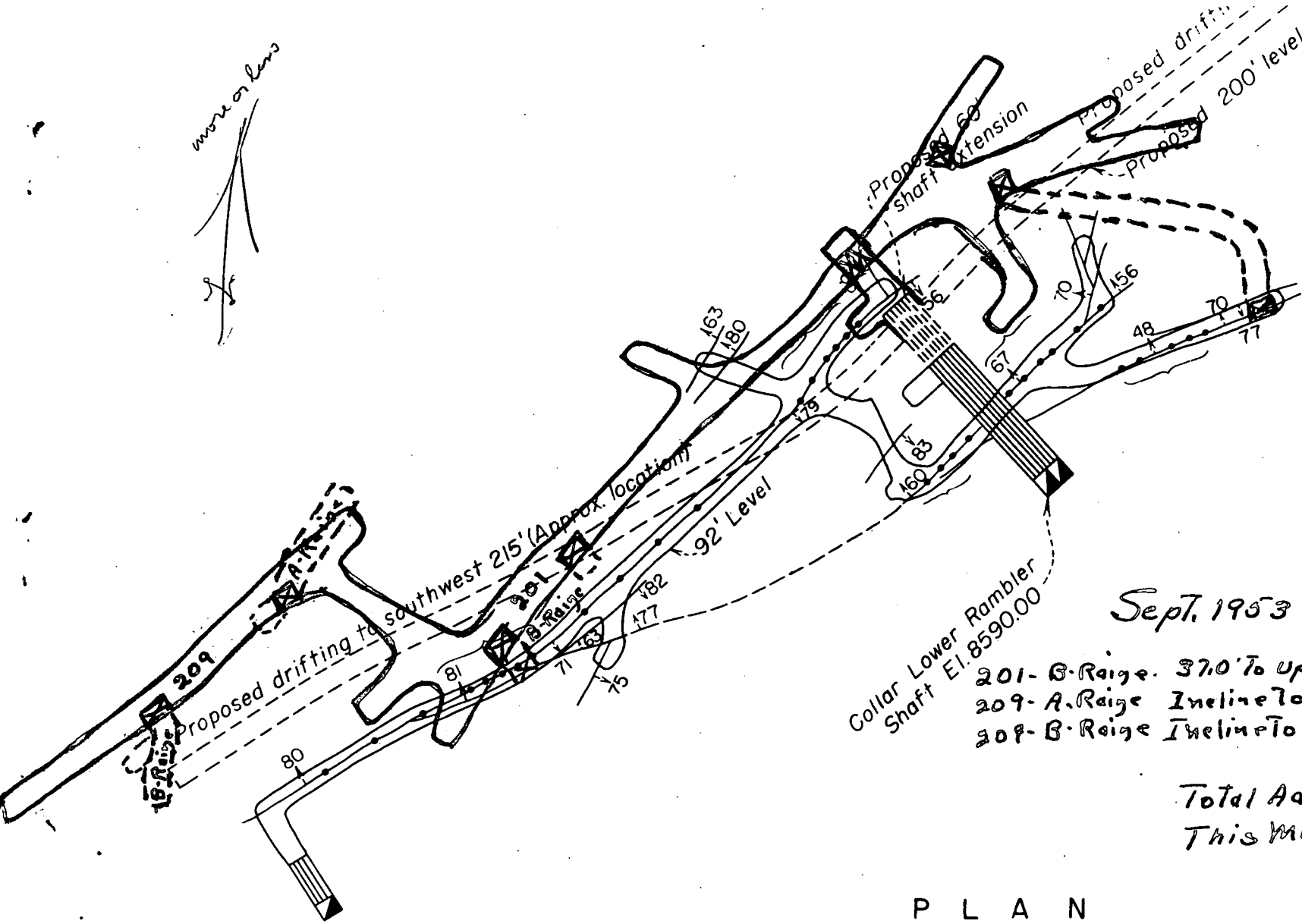
   Total advance this month: 80 ft.

4. Unusual difficulties - none.

5. Last three working days of month applied on production as further development not advisable and funds available under the contract have been almost exhausted. Development work ended as of September 26, 1953. Final Operators Report is included herewith. Final narrative summary and proposals for disposition of remaining assets to be submitted later.

SMITH & RUGG

Joseph M Smith
Partner



Sept. 1953

		Adv.
201- B-Raige.	37.0' To upper level	53.0'
209- A. Raige	Incline To So-West	12.0'
209- B-Raige	Incline To So-West	15.0'
Total Advance This Month		80.0'

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

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

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

Defense Minerals Administration
RECEIVED
FEB 1 1954

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

Month of September, 1953 Docket No. DMEA 2296 Contract No. E278
Operator's Name SMITH & RUGG Minerals
Address P.O. Box 354, Nederland, Colorado Tungsten
Contract Amount, $24,400.00 Government Participation: 75% Amount, $18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	875.00	9,268.70	10,143.70			
Supervision	224.00	4,592.00	4,816.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives	83.01	2,180.64	2,263.65			
Pipe		344.26	344.26			
Track		83.20	83.20			
Miscellaneous	109.60	2,800.81*	2,691.21			
(Credit results from deduction of remaining inventory)						
(4) Operating Equipment:						
Rental	88.45	1,275.00	1,363.45			
Purchase		198.90	198.90			
Depreciation	35.40	490.00	525.40			
(5) Initial Rehabilitation and Repairs		66.84	66.84			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:		**				
Repairs to Equipment		328.15	328.15			
Sampling and Analysis		15.00	15.00			
Payroll Taxes	9.03	76.59	85.62			
Liability Insurance W/Comp	21.23	492.00	513.23			
Accounting	100.00	525.75	625.75			
Hauling Equip't.		12.88	12.88			
(8) Contingencies (specify):			580.63			
TOTALS	1326.52	22,807.05	24,133.57	1,326.52	22,807.05	24,133.57
				(1) - 192.00		- 192.00
				434.45		- 434.45
				700.07	22,807.05	23,507.12
					$525.07	

I certify that the above bill is correct and just and that payment therefor has been received.

Date 10/14/53 *Payee SMITH & RUGG (2)

Per Joseph M Smith Title Partner

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

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

(Instructions on reverse)

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

Signature (Authorized Certifying Officer)

Date 1/20/54 Vou. No. 54-73

(See other side)

* $5.00 drum deposit disallowed was deleted on prior report
** $24.79 repair item disallowed was deleted on this report.

(over)

(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-278 in accordance with the terms of the contract.

Signature K. H. Palmer, #994.89 Title Mining Engineer Date OCT 16 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. F. King Title Executive Officer Date JAN 13 1954

MONTHLY REPORT OF OPERATOR

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

(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.

(1) Workmen's Compensation, disallowed by DMEA audit 142.00
Accounting charge disallowed by DMEA audit 50.00
(2) Liquidation of Property 192.00
634.45

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 September 1953 Docket No. DMEA 2296 Contract No. E278

Operator's Name SMITH & RUGG Minerals

Address P.O. Box 354, Nederland, Colorado Tungsten

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	feet			9,300.31	425.5	$21.85	515	
Crosscutting	"			2,693.39	112.0	24.05	125	
Raising	"	1326.52	80.0	7,891.78	373.0	21.16	50	
Shafts	"			2,785.94	35.0	79.59	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				1,196.41				
TOTAL DISTRIBUTED COSTS		1326.52	80.0	23,867.83				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				198.90				305.00
Initial Rehabilitation and Repairs				66.84				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		1326.52		24,133.57				24,400.00

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 10/14/53 Operator SMITH & RUGG

Per Joseph M Smith Title Partner

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

REMARKS: $24.79 disallowed for June was deleted this month as follows:

From drifting	56.3%	$13.96
From raising	43.7%	10.83
		24.79

$5.00 disallowed for June was deleted last month from drifting.

(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

SMITH & RUGG
DMEA - 2296
CONTRACT Idm. E278

EXPENSE SUMMARY

September 1-26, 1953 inclusive

PAYEE	Ck. No.	TOTAL AMOUNT	(2) LABOR and SUPERVISION Labor	Suprv.	(3) OPERATING SUPPLIES Descrpt.	Amt.	(4) OPERATING EQUIPMENT Descrpt.	Rental	Depr.	(7) MISCELLANEOUS Item	Amt.
Payroll per Summary attached		$1,099.00	$875.00	$224.00							
Industrial Engineer. & Sup.	211	289.10			Explosives	$179.62	Generator	$ 75.00			
					Misc.	9.48	Pump	25.00			
State Comp. Ins. Fund	212	24.00								W/Comp. Ins.	$ 24.00
Payroll Taxes 9-1 to 9-26 incl. as per payroll summary		9.03								Payroll tax	9.03
Dick's Corner	210	8.70			Fuel	8.70					
Wilkins & Schone	214	40.00								Accting. (Aug.)	40.00
C & K Oil Co.	215	116.36			Fuel	116.36					
Wilkins & Schone (Sept. and final reports)	216	60.00								Accounting (Sept.& Oct.)	60.00
Depreciation on Operators Equipment per Contract		40.00					Jack Hammer		5.00		
							Dump Truck		10.00		
							Compressor		25.00		
		1,686.19	875.00	224.00		314.16		100.00	40.00		133.03
Less supplies on hand Oct. 1 1953		134.35			Explosives	75.85					
					Fuel	58.50					
Net costs for September		1,551.84	875.00	224.00		179.81		100.00	40.00		133.03
Less: 3/26ths of certain expenses to be pro-rated*		39.68				20.76		11.55	4.60	On W/Comp. only	2.77
Less: June & Oct. Gas Tax Refunds		185.64			Fuel	185.64					
TOTAL . . .		$1,326.52	$875.00	$224.00		26.59		$ 88.45	$35.40		$130.26

* Contract operations ceased on September 26, 1953. Work on production of ore started Sept. 27 and continued through balance of Sept. (3 days). Total days worked in September, 26 of which 3 were not on DMEA Contract, therefore, 3/26ths of certain expenses have been excluded as indicated above. Labor and supervision for the last three days of Sept. is not included above.

SMITH & RUGG
DMEA - 2296
CONTRACT - Idm. E278

PAYROLL SUMMARY

September 1 to 26, 1953 inclusive

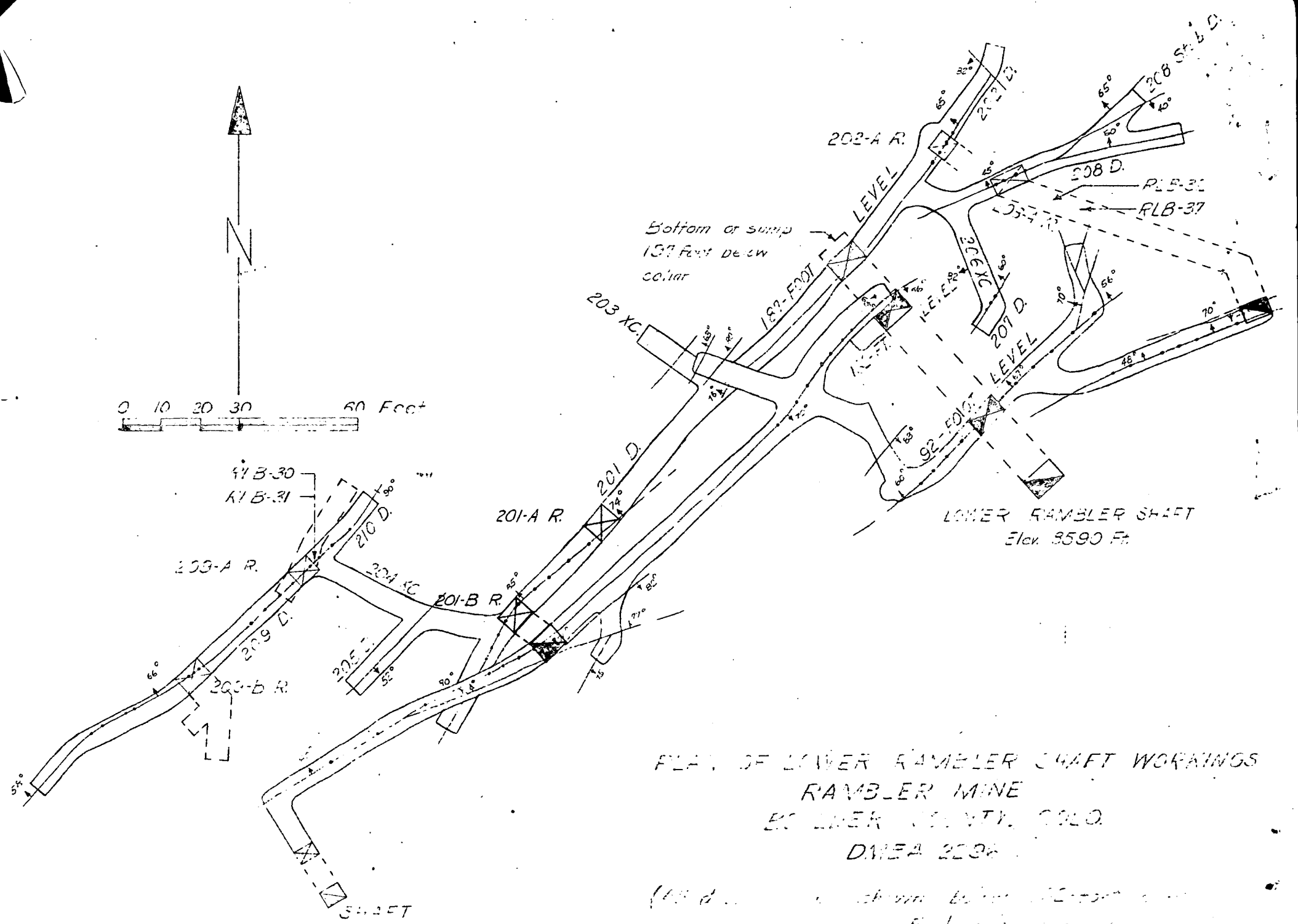
	1st Period 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 2nd Period 16 17 18 19 20 21 22 23 24 25 26	TOTAL HOURS Reg.	TOTAL HOURS O.T.	RATES Reg.	RATES O.T.	GROSS WAGES	S.S.	W.H.T.	NET PAID
LABOR									
RUGG, Charles R.	1st 8 8 8 8 8* 8 8	56	8	$1.75	$2.625	$ 119.00			$ 119.00
521-14-9903	2nd 8 8 8 8* 8 8 8 8 8*	64	16	1.75	2.625	154.00			154.00
Miner									
PETROVIC, Eivan	1st 8 8 8 8 8* 8 8 8 8 8* 8 8	88	16	1.75	2.625	196.00	$2.94	$ 6.30	186.76
523-42-8048	2nd 8 8 8 8* 8 8 8 8 8*	64	16	1.75	2.625	154.00	2.31	4.80	146.89
Hoistman									
SMITH, Michael	1st 8 8 8 8 8	40		1.75		70.00	1.05	8.60	60.35
523-40-7790									
Miner									
FLARTY, Raymond	1st 8 8	16		1.75		28.00	.42		27.58
523-03-6948	2nd 8 8 8 8* 8 8 8 8 8*	64	16	1.75	2.625	154.00	2.31	21.90	129.79
Miner									
	TOTAL LABOR					875.00	9.03	41.60	824.37
SUPERVISION									
SMITH, Joseph M.	1st 8 8 8 8 8* 8 8 8 8 8* 8 8	88	16	2.00	3.00	224.00			224.00
522-07-9589									
Supervisor									
	TOTAL LABOR & SUPERVISION					$1,099.00	$9.03	$41.60	$1,048.37

* Overtime

NOTE: Portion of salaries applicable to last 3 days of September excluded.

Certified to be a true summary of the payroll for this operation per the records for September 1-26, 1953 inclusive.

E. W. Shore



PLAN OF LOWER RAMBLER SHAFT WORKINGS
RAMBLER MINE
EL PASO COUNTY, COLO.
DWEA 2236

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

224 New Customhouse
Denver 2, Colorado

September 24, 1953

Memorandum

To: Secretary, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Settlement Sheet - Contract Idm-E278 (Tungsten), Docket No. DMEA 2296, Joseph M. Smith & Charles Rugg

Enclosed is a copy of a settlement sheet covering lot number 654 shipped by Joseph M. Smith and Charles Rugg to the Hetzer Mines, Inc.

W. H. King

W. H. King

Enclosure

Copy retained 400

Royalty

HETZER MINES, INC.

250 Pearl Street
BOULDER, COLORADO
PHONE 61

PURCHASER

No. 654

Shipped By Smith & Rugg
Vendor

SETTLEMENT SHEET

Nederland, Colorado
Residence of Vendor

September 15, 1953
Date of Sale

DATE	SHIPPED FROM Source from which Vendor obtained same.	LOT NO.	GROSS WEIGHT	TARE	Per Cent Moisture	LBS. H2O	NET WEIGHT	ASSAY	TUNGSTIC ACID	PRICE PER LB.	GROSS VALUE
8/4	Doubler	654	3,613	19	1	36	3,558	55.50	1974.69	2.85	5627.87

The above MEMORANDUM OF SALE contians a true statement of 1—the date of sale; 2—residence of vendor; 3—the nature and amount of the article sold; 4—the source from which the vendor obtained same; and 5—the consideration actually paid; receipt of which, in full, as shown by the "Net Value" above, is hereby acknowledged.

VENDOR

DEDUCTIONS		
Royalty	5% U. S. Treas. 15% George Cowdary	281.39 844.18
Sampling & Assaying		
Hauling		
Milling		
Total Deductions		1,125.57
Net Value		4,502.30

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

RECEIVED
OCT - 6 1953

224 New Customhouse
Denver 2, Colorado

October 5, 1953.

2296

WSM

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Form MF-104 - DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg, Rambler Mine, Boulder County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of August 1953, pertaining to DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg, Rambler Mine, Boulder County, Colorado.

W. H. King
W. H. King

Enclosures

MF-104

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

Defense Minerals Administration
RECEIVED
OCT 8 1953

224 New Customhouse
Denver 2, Colorado

September 23, 1953.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg, Rambler Mine, Boulder County, Colorado. Operator's Monthly Progress Report for the period August 1953.

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

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deductions - None.

Remarks:

Date of Report	September 12, 1953.
Date Received in Field Office	September 14, 1953.
Date Received in Region Office	September 23, 1953.

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
September 22, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for August 1953

Enclosed are the original and four copies of the subject progress report--forms MF-104 and MF-104A, with narrative, plan map, and required documentation--and the original and six copies of R. L. Bolmer's memorandum covering inspection of the underground progress and accounts.

The advance of 94 feet in raises 208-A, 209-B, 201-A, and 201-D, and of 2 feet in 203 crosscut, as reported in the narrative and entered on the MF-104A form, are confirmed and the accounts are properly documented and approved within the limits of our delegated authority. Operations are adequately described in the inspecting engineer's memorandum.

Payment is recommended and certified on the MF-104 form of $1,687.96, or 75 percent of the total $2,250.62 claimed by the contractor, subject to usual Region IV audit.

W. M. Traver

W. M. Traver

Enclosures

cc: 4
E278
DMEA Chron.

WMT/le

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
September 17, 1953

Memorandum

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

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Pugg (Rambler mine), Boulder County, Colorado - Progress report for August 1953

The progress reported by the operator this period, 94 feet of raising and 2 feet of crosscutting, was confirmed during an inspection of the property September 1, 1953. The progress has been reported correctly in the operator's narrative and on form MF-104A.

The inclined section of the 208-A raise, which had been following the lower edge of the ore shoot, passed beyond the eastern limits of the ore at a distance of some 95 feet above the 187-foot level. From that point the raise was driven vertically on the vein in order to connect into the east end of a 92-foot level drift. The vein in the last 30 feet of this raise was barren, the edge of the ore occurring a few feet to the west. A few more rounds will be taken in the 209-B raise and raising stopped if the mineral does not improve. The 209-A raise was stopped last period. Raise 201-A was stopped at 12 feet when the vein and narrow streak of ferberite pinched out. Raise 201-B will be continued for as long as conditions encountered warrant. The warranted work that can be performed within the contract amount may be completed next period or during October at the latest. A certification of a small discovery probably will be recommended.

Incurred costs totaling $2,250.62 are reported for the period. The costs have been substantiated in the prescribed manner and are considered justified and not excessive. Work has been performed as authorized in the contract and payment of 75 percent of the total amount reported on form MF-104, or $1,687.96, is recommended subject to review by the regional office and verification of the applicable rates and the arithmetical accuracy of the computations.

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

cc: 6
E278
DMEA Chron.

RECEIVED

SMITH and RUGG
DMEA - 2296
CONTRACT Idm - E278
August - 1953

NARRATIVE REPORT

1. 208-A Raise - Advanced from 94.0 Feet above track to 125.0 feet above track. Connnecting with end of drift on upper level. Advance - 31.0 feet.

2. 209-B Raise - Advanced from 33.0 feet above track to 54.0 feet above track. Small streak of ferberite all the way but not worth saving. Advance - 21.0 feet.

3. 203 - Crosscut - Advanced from 21.0 feet from center of 201 drift to 23.0 feet from center of 201 drift. Advance-2.0 feet.

4. 201-A Raise - Raise started on small ore in 201 drift 38 feet N.E. of 204 crosscut and advanced to 19.0 feet above track. Ore pinched out and work stopped. Advance - 12.0 Feet.

5. 201-B Raise - Raise started on small ore in 201 drift 6.0 feet N.E. of center of 204 crosscut and advanced to 37.0 feet above track. Small ore continued. Advance - 30.0 feet.

6. Total advance all places - 96.0 feet. (Raise 94 ft. Crosscut 2 ft.)

7. Operating Crew - Total of three (3) men all month.

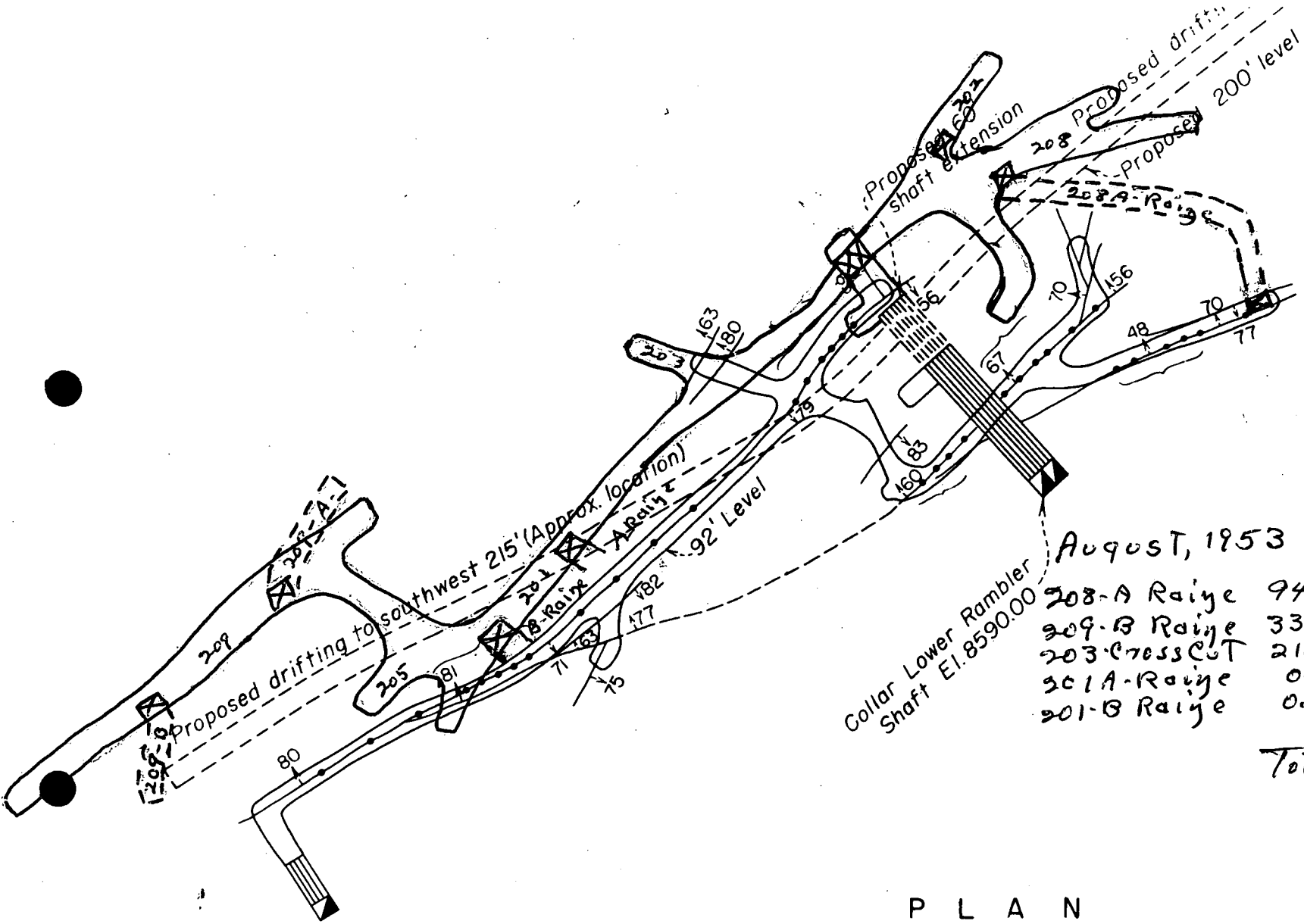
8. No difficulties encountered.

32' per man per month

SMITH and RUGG

By Joseph M Smith

Joseph M. Smith, Partner



August, 1953

208-A Raise	94.0' To	125.0' -	31.0
209-B Raise	33.0' To	54.0' -	21.0
203-Cross Cut	21.0' To	23.0'	2.0
201-A-Raise	0.0' To	19.0'	12.0
201-B Raise	0.0' To	37.0'	30.0
Total -			96.0

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.
RECEIVED
OCT - 8 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 195 53 Docket No. DMEA 2296 Contract No. E-278
Operator's Name Smith & Rugg Minerals Tungsten
Address P.O.Box 354, Nederland, Colorado
Contract Amount, $ 24,400.00 Government Participation: 75 % Amount, $ 18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	875.00	8,393.70	9,268.70			
Supervision	400.00	4,192.00	4,592.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives	447.10	1,733.54	2,180.64			
Pipe		344.26	344.26			
Track		83.20	83.20			
Miscellaneous	318.85	2,481.96	2,800.81	318.85	2,486.96	2,805.81
(4) Operating Equipment:						
Rental	100.00	1,175.00	1,275.00			
Purchase		198.90	198.90			
Depreciation	40.00	450.00	490.00			
(5) Initial Rehabilitation and Repairs		66.84	66.84			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		352.94	352.94			
Sampling and Analysis	11.00	4.00	15.00			
Payroll Taxes	7.67	68.92	76.59			
Liability Insurance w/comp	21.00	471.00	492.00			
Accounting	30.00	495.75	525.75			
Hauling Equip.		12.88	12.88			
(8) Contingencies (specify):						
TOTALS	2250.62	20,581.22	22,831.84	2,250.62	20,586.22	22,836.84
					-29.79	-29.79
				2,250.62	20,556.43	22,807.05

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

Date Sept. 12, 1953 *Payee SMITH & RUGG

Per Joseph M Smith Title Partner

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

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

(Instructions on reverse)

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

$ 1687.97

Signature [illegible]
(Authorized Certifying Officer)

Date 9/29/53 Vou. No. DMA 54-32
(See other side)

*Previous adjustment

(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-278 in accordance with the terms of the contract.

Signature R. L. Bolmer, $1,687.96 Title Mining Engineer Date SEP 17 1953

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

Signature W. L. King Title Executive Officer Date SEP 23 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

Defense Minerals Administration
RECEIVED
OCT 6 1953

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

Month of August 1953 Docket No. DMEA 2206 Contract No. E 278
Operator's Name Smith & Rugg Minerals Tungsten
Address P.O.Box 354, 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	feet			9,314.27	425.5	21.89	515	
Crosscutting	feet	74.24	2.0	2,693.39	112.0	24.05	125	
Raising	feet	2176.38	94.0	6,576.09	293.0	22.44	50	
Shafts	feet			2,765.94	35.0	79.59	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				1,196.41				
TOTAL DISTRIBUTED COSTS		2250.62	96.0	22,566.10				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				198.90				305.00
Initial Rehabilitation and Repairs				66.84				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		2250.62		22,831.84				24,400.00

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

Date Sept. 12, 1953 Operator SMITH & RUGG

Per Joseph M. Smith Title Partner

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

REMARKS: Operating costs allocated on basis of labor costs for each operation during August as follows:

	Labor	Percent
Crosscutting	42.00	3.3
Raising	1233.00	96.7
	$1275.00	100.0%

(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

SMITH & RUGG
DMEA-2296
Contract-Idm-E278

EXPENSE SUMMARY - August, 1953

PAYEE	CK. NO.	TOTAL AMOUNT	(2) LABOR & SUPERVISION Labor	Supry.	(3) OPERATING SUPPLIES Descrpt.	Amt.	(4) OPERATING EQUIPMENT Descrpt.	Rental	Depr.	(7) MISCELLANEOUS Item	Amt.
Payroll per summary attached		$1275.00	$875.00	$400.00		$		$	$		
Payroll taxes-Aug.-Accrued		7.67								Payroll taxes	$7.67
Industrial Eng. & Supply Co.	197	632.58			Explos.	437.41	Generator	75.00			
					Misc.	95.17	Pump	25.00			
C&K Oil Company	198	223.68			Fuel	223.68					
Wilkins & Schone	199	30.00								Accounting	30.00
State Comp. Ins. Fund	200	21.00								W/Comp.Ins.	21.00
Hill & Jude	201	11.00								Assaying	11.00
Standard Machine Works	202	9.69			Explos.	9.69					
Depreciation on Operators Equipment per Contract		40.00					Jack hammer		5.00		
							Dump Truck		10.00		
							Compressor		25.00		
TOTALS		$2250.62	$875.00	$400.00		$765.95		$100.00	$40.00		$69.67

SMITH & RUGG
DMEA - 2296
Contract - Idm - E278

PAYROLL SUMMARY - August, 1953

	1st Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL HOURS		RATES		GROSS	S.S.	W.H.T.	NET
	2nd Period	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31	Reg.	O.T.	Reg.	O.T.	WAGES			PAID
RUGG, Charles L.	1st	8		8	8	8	8	8	8*		8	8	8	8	8	8*	80	16	$1.75	$2.625	$ 182.00	$	$	$ 182.00
521-14-9903	2nd		8	8	8	8	8	8*		8	8	8	8	8	8*		80	16	1.75	2.625	182.00			182.00
Miner																								
PETROVIC, Eivan	1st	8*		8	8	8	8	8	8*		8	8	8	8	8	8*	80	24	1.75	2.625	203.00	3.04	7.70	192.26
523-42-8048	2nd		8	8	8	8	8	8*		8	8	8	8	8	8*	8	88	16	1.75	2.625	196.00	2.94	6.30	186.76
Hoistman																								
SMITH, Michael																								
523-40-7790	2nd				8	8	8			8	8	8	8			8	64		1.75		112.00	1.68	17.00	93.32
Miner																								
																	TOTAL LABOR				875.00	7.66	31.00	836.34
SMITH, Joseph M.	1st	8*		8	8	8	8	8	8*		8	8	8	8	8	8*	80	24	2.00	3.00	232.00			232.00
522-07-9589	2nd		8	8	8	8	8	8*					8	8	8	8	72	8	2.00	3.00	168.00			168.00
Supervisor																								
																	SUPERVISION				400.00			400.00
																	TOTAL LABOR & SUPERVISION . . .				$1,275.00	$7.66	$31.00	$1236.34

*-Overtime

Certified to be a true summary of
subject payroll for August, 1953

A.W. Schone

Reg. 4 - August Report

E-278 DMEA-2296 - Rambler mine (Tungsten), Boulder County, Colo.

Raise 208A was advanced 52 feet. Raise 209A was advanced 43 feet and stopped. Raise 209B was advanced 10 feet.

Smith & Rugg

Project DMEA 2296 - Tungsten Rambler Mine, Boulder Co., Colorado

Contract Idm - E 278: Total contract $24,400.00 (Gov. participation 75% - $18,300.00)

Scheduled exploration

Sinking 60 feet

Drifting 515 feet

X-cutting 125 feet

Date of contract March 17, 1952 14 months - Expires May 17, 1953

April	52		7014.87 date	Percent spent
May	52		3759.69	15.64
June			5884.99	24.11
July			8248.21	33.80
August			9573.66	39.24
Sept.			11190.54	45.86
Oct			12399.29	50.82
Nov.			14249.79	58.40
April	53	437.98	14687.77	60.20
May		2098.23	16786.00	68.80
June		1549.06	18335.06	75.14
June		112.50	18447.56	
July		2108.87	20556.43	84.25

Project DMEA 2296

Rehabilitation of Shafts

Month	Wages 1/	Equipment	Supplies	Total	
April 52	652.50	53.20	212.15	917.85	
April 53	232.94	12.72	32.90	278.56	$1196.41

	Rehabilitation - Surface	Total to Date
May	6.04	6.04
June	31.60	37.64
Nov.	29.20	66.84

Project OMEA 2296 — Tungsten Smith & Rugg

Shaft Sinking 60 feet 14 months

Month	Advance Feet	Feet To Date	Costs Labor 1/	Equipment 2/	Power	Explosives	Other Supplies	Total	Total To Date	Costs per Foot Labor	Equipment	Power	Explosives	Other Supplies	Total	Totals To Date	Man Shifts	Shifts	Advance per Man Shift	Shifts to Work	Percent of Finished	Funds spent	Time Consumed
April	6	6	405.30	33.05	—	—	131.78	570.13	570.13	67.55	5.51	—	—	21.96	95.02	95.02	15.00	5.0	0.40	1.20	10.0	—	10.7
May	28	34	1171.89	185.37	—	317.37	332.20	2006.83	2576.96	41.85	6.62	—	11.33	11.87	71.67	75.79	82.125	26.5	0.34	1.06	56.7	—	17.9
June			152.65				56.33	208.98	2785.94								10.25	3.25					
July		34	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		50.88	6.82	—	9.33	[illegible]	81.04		[illegible]	[illegible]	0.32	0.93			

Project DMEA 2296 - Tungsten Smith & Rugg

Raising 50 feet + ?

Month	Advance Feet	Feet To Date	Costs Labor 1/	Costs Equipment 2/	Costs Power	Costs Explosives	Costs Other Supplies	Costs Total	Total To Date	Costs per Foot Labor	Costs per Foot Equipment	Costs per Foot Power	Costs per Foot Explosives	Costs per Foot Other Supplies	Costs per Foot Total	Totals To Date	Man Shifts	Advance per Man Shift	Advance per Shift	Percent of Work Finished	Percent of Funds Spent	Percent of Time Consumed	
July 52	34	34	548.46	55.44	—	168.43	163.50	935.83	935.83	16.13	1.63	—	4.95	4.81	27.52	27.52	37.5	10.25	0.91	3.32	68.0	—	32.1	
Aug.	—	34	—	—	—	—	—	—	—															
Nov 52	12.5	46.5	312.17	68.03	—	91.57	74.61	546.38	1482.21	25.00	5.44	—	7.33	5.97	43.71	31.88	21	7.00	0.60	1.79				
May 53	2.0	48.5	50.61	6.84	—	8.39	9.70	75.54	1557.75	25.30	3.42	—	4.20	4.85	37.77	32.12	2.4	0.6	0.83	3.33			72.5	
June	40.5	89.0	504.97	61.18	—	44.86	66.42	676.93	2234.68	12.46	1.51	—	1.11	1.64	16.71	25.11	31.5	10.5	1.29	3.86			77.5	
June				49.16																				
July	105.0	194.0	1582.54	196.28	—	170.09	159.96	2108.87	4343.55	15.07	1.87	—	1.62	1.52	20.08	22.39	98.0	24.0	1.07	4.38			82.5	16.5/20

1/ includes [illegible]
2/ includes [illegible]

Project DMEA 2296 - Tungsten Smith & Rugg

Drifting 515 Feet + 125 Feed X-cut Total 640 feet 14 months

Month	Advance Feet	Feet To Date	Costs Labor 1/	Equipment 2/	Power	Explosives	Other Supplies	Total	Total To Date	Costs per Foot Labor	Equipment	Power	Explosives	Other Supplies	Total	Totals To Date	Man Shifts	Shifts	Advance per Man Shift	Shift	Percent of Work Finished	Funds Spent	Time Consumed	
May	24	24	147.81	23.38	—	40.03	42.62	253.84	253.84	6.16	0.97	—	1.67	1.77	10.57		10.00	3.5	2.4	6.86	3.75	—	17.9	2.5/14
June	78	102	988.02	338.90	—	6.12	556.68	1889.72	2143.56	12.67	4.34	—	0.08	7.14	24.23	21.02	65.75	21.75	1.19	3.59	12.19	—	25.0	
July	61	163	836.54	84.56	—	256.91	249.38	1427.39	3570.95	13.71	1.39	—	4.21	4.09	23.40	21.91	57.00	15.75	1.07	3.87	25.5	—	32.1	4.5
[illegible]	68	231	1077.20	140.00	—	—	108.25	1325.45	4896.40	15.84	2.06	—	—	1.59	19.49	21.20	69.00	22.50	0.99	3.02	36.1		39.2	5.5
Sept.	69	300	961.50	140.00	—	278.82	236.56	1616.88	6513.28	13.93	2.03	—	4.04	3.43	23.43	21.71	57.25	26.00	1.20	2.65	46.9	—	46.4	6.5/14
Oct.	76	376	930.00	140.00	—	—	138.75	1208.75	7722.03	12.24	1.84	—	—	1.83	15.90	20.54	57.00	24.00	1.33	3.17	58.8	—	53.6	7.5/14
Nov.	45	421	728.41	158.75	—	213.67	174.09	1274.92	8996.95	16.19	3.53	—	4.75	3.87	28.33	21.37	48.00	16.00	0.93	2.81	65.8	—	60.7	8.5/14
April 53	8	429	133.31	7.28	—	—	18.83	159.42	9156.37	16.66	0.91	—	—	2.35	19.93	21.34	14.00	7.00	0.57	1.14	67.0		96.4	10.5/14
May "	79	508	1355.12	183.16	—	224.68	259.73	2022.69	11179.06	17.15	2.32		2.84	3.29	25.60	22.01	63.6	15.4	1.24	5.13	79.3	—	72.5	14.5/20
June	24.5	532.5	649.93	78.82	—	57.80	85.58	872.13	12051.19	26.53	3.22	—	2.36	3.49	35.60	22.63	40.5	13.5	0.60	1.81	83.2		77.5	
June				63.34																				
July																								

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

224 New Customhouse
Denver 2, Colorado

September 4, 1953.

WSM

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the period July 1953, pertaining to DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado.

W. H. King

W. H. King

Enclosures

MF-104
July 19

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

Administrative Audit Difference Statement

Date: August 28, 1953
Payee's
Reference: Progress
Report - July, 1953

Joseph E. Smith & Charles R. Rugg
Nederland, Colorado
Idm-E278

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

Amount Claimed $2,108.87

Difference $+112.50

Amount Approved $2,221.37

The reason for the difference was due to:

Repairs to operator-owned compressor which were disallowed in June are now considered allowable and are reinstated herein. $112.50

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

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

224 New Customhouse
Denver 2, Colorado

August 27, 1953.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado. Operator's Monthly Progress Report for the period July 1953.

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

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

A disallowance of $112.50 was made from Repair to Equipment on the June 1953 report. This charge is now considered to be allowable as per Circular Letters 19 and 31 and this amount is to be reinstated on Form MF-104 for July 1953.

Remarks:

Date of Report	August 11, 1953.
Date Received in Field Office	August 12, 1953.
Date Received in Region Office	August 26, 1953.
Date Checked in Region Office	August 26, 1953.

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
August 25, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E2,8 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for July 1953

Enclosed are the original and four copies of the subject progress report--forms MF-104 and MF-104A, with narrative, plan map, and required documentation--and the original and six copies of R. L. Bolmer's memorandum covering inspection of the underground progress and accounts.

The advance of 105 feet, all in raises 208-A, 209-A, and 209-B, as reported in the narrative and on the MF-104A form, was confirmed by inspection and the accounts are approved.

Your attention is called to Bolmer's reference to a ventilating pipe purchase for $117.30, which we are approving subject to an amendment, if you consider it necessary. We are again passing an item of $56.28 for repair parts for the compressor, depreciation equipment.

Within the limits of delegated authority to check, the documentation and accounting are accepted. Payment is approved and certified on the MF-104 form of $1,581.65, or 75 percent of the total $2,108.87 claimed by the contractor, subject to usual Region IV audit.

W. M. Traver

W. M. Traver

enclosures

WMT/cb

cc: 4
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 13
Denver Federal Center
Denver 14, Colorado
August 25, 1953

Memorandum

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

From: R. L. Bolmer

Subject: DMA 2296, Contract Idm-12[illegible] (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for July 1953

Progress under the subject contract was inspected August 21, 1953, with the operators. The advance reported in the operators' narrative and on form MF-104A, a total of 105 feet in raises 203-A, 209-A, and 209-B, was confirmed during the inspection. As reported, raise 209-A was stopped due to the unfavorable conditions encountered. Raises 203-A and 209-B are being continued. Two raises begun in August from the 201 drift will also be continued for as long as the vein remains promising.

Two-hundred tons of ore, recovered to date from the exploration drifts and raises, have been milled by the operators; 3,500 pounds of concentrates, assaying 60.0 percent WO_3 and 0.0[illegible]5 percent P, were recovered. Assuming a [illegible]0 percent recovery, the ore broken during raising and drifting has averaged 0.[illegible]5 percent WO_3. The operators estimate their milling and trucking costs as between $4.00 and $5.00 per ton. Sixty percent concentrates can be marketed for approximately $3.00 per pound of contained WO_3. Under such conditions, the ore, as mined, will have a gross value of about $31.50 per ton. A somewhat higher grade of ore probably can be maintained once stoping operations are begun. The operators believe, that by milling and marketing the ore themselves, they can profitably mine the ore even though it is subject to a total royalty of 20 percent.

Incurred costs totaling $2,10[illegible] are reported this period. Individually, the reported costs are substantiated in the prescribed manner. All items of cost reported, including repairs to the operators' compressor, are considered necessary and justified costs of the project.

Provisions for the purchase of ventilation pipe are not included in the contract. The purchase of such a basic operating material is considered necessary and justified for this project and the incurred costs so reported this period, therefore, are being accepted. An amendment to the contract would be recommended if such is deemed necessary.

Work has been accomplished as authorized by the contract and the total costs reported are approved, subject to review by the regional office and verification of the arithmetic accuracy of the computations.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/cb

cc: C
E2/6
DMEA Spokane.

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 July 1953 Docket No. DMEA 2296 Contract No. D-278
Operator's Name [illegible] and [illegible] Minerals [illegible]
Address P.O. Box 3[illegible] - [illegible], Colorado

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting	Feet			9312.87	425.5	21.90	515	
Crosscutting	Feet			2612.16	110.0	23.[illegible]	125	
Raising	Feet	2108.87	105.0	6399.71	192.0	22.11	50	
Shafts	Feet			2728.94	35.0	7.[illegible]	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Under road rehabilit.	1cu			1196.41				
TOTAL DISTRIBUTED COSTS		2108.87	105.0	20320.46				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				170.90				205.00
Initial Rehabilitation and Repairs				66.64				200.00
New Buildings, Improvements, etc.								
TOTAL COSTS		21[illegible].07		[illegible]				7[illegible],400.00

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

Date Aug. 11, 53 Operator [illegible]
Per Joseph M. Smith Title Partner

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

REMARKS:

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

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

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

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

Month of July, 193 Docket No. DMEA [illegible] Contract No. [illegible]-270
Operator's Name [illegible] and [illegible] Minerals Tungsten
Address P.O. Box 354 - Underland, Colorado
Contract Amount, 84,000.00 Government Participation 75 % Amount, 12,310.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	1113.00	7280.73	8393.73			
Supervision	334.00	3858.00	4192.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives	24.89	1708.65	1733.54			
Pipe	170.09	174.17	344.26			
Track	11.09	71.37	83.46			
Miscellaneous	123.22	2369.72	2492.94			
(4) Operating Equipment:						
Rental	100.00	1075.00	1175.00			
Purchase		198.90	198.90			
Depreciation	40.[illegible]	410.00	450.00			
(5) Initial Rehabilitation and Repairs		66.84	66.84			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	56.28	296.66	352.94			
Sampling and Analysis		4.00	4.00			
Payroll Taxes	21.54	57.38	78.92			
Liability Insurance Comp	26.00	445.00	471.00			
Accounting	40.00	447.75	495.75			
Hauling Equipment		12.00	12.00			
(8) Contingencies (specify):						
				2108.87	18,477.35	20,586.22
					*-142.29	*-142.29
Totals	2108.87	16,477.35	20,586.22	**-112.50		**-112.50
				2221.37	18,335.06	20,556.43

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

Date Aug. 11, 53 *Payee [illegible] and [illegible]

Per Joseph M. Smith Title Partner

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

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

(Instructions on reverse)

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

$ 1666.03

Signature [illegible]
(Authorized Certifying Officer)

Date 8/28/53 Vou. No. DMA 54-24

(See other side)

* Previous Disallowance ** Previous disallowance but now considered allowable by DMEA Engineers.

(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-278 in accordance with the terms of the contract.

Signature R. L. Bolmer, #158165 WMT Title Mining Engineer Date Aug. 24, 1953

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

Signature W. H. King Title Executive Officer Date AUG 27 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

SMITH & RUGG
DMEA - 2296
CONTRACT Idm-E278

EXPENSE SUMMARY - July, 1953

PAYEE	CK. NO.	TOTAL AMOUNT	(2) LABOR and SUPERVISION Labor	Supv.	(3) OPERATING SUPPLIES Descrpt.	Amt.	(4) OPERATING EQUIPMENT Descrpt.	Rental	Depr.	(7) MISCELLANEOUS Item	Amt.
Payroll per Summary attached		$1,497.00	$1,113.00	$384.00							
Payroll taxes - July - Accrued		11.54								Payroll) Taxes)	$ 11.54
Barter Machinery Co.	178	117.30			Vent Pipe	$117.30					
Wilkins & Schore	183	48.00								Accounting	48.00
C & K Oil Company	185	69.13			Fuel Oil	69.13					
Valentine Hardware Co.	186	56.28								Repairs	56.28
Industrial Engineering & Supply Co.	187	215.93			Track	11.83	Generator	$ 75.00			
					Explosives	24.89	Pump	25.00			
					Pipe	52.79					
					Misc.	26.42					
State Compensation Insurance Fund	188	26.00								W/Comp.Ins.	26.00
Dick's Corner Service Station	190	27.69			Fuel Oil	27.69					
Depreciation of Operator's Equipment per contract		40.00					JackHammer		$ 5.00		
							Dump Truck		10.00		
							Compressor		25.00		
TOTALS		$2,108.87	$1,113.00	$384.00		$330.05		$100.00	$40.00		$141.82

SMITH and RUGG
DASA -2296
CONTRACT Idm - E278

PAYROLL SUMMARY - July 1953

	1st Period / 2nd Period	1 / 16	2 / 17	3 / 18	4 / 19	5 / 20	6 / 21	7 / 22	8 / 23	9 / 24	10 / 25	11 / 26	12 / 27	13 / 28	14 / 29	15 / 30	31	TOTAL HOURS Reg.	TOTAL HOURS O.T.	RATES Reg.	RATES O.T.	GROSS	S. S.	W.H.T.	NET PAID
Rugg, Charles R.	1st	8	8	8			8	8	8	8	8	8*		8	8	8		88	8	$1.75	$2.625	$175.00			$ 175.00
521-14-9903	2nd	8	8	8*		8	8	8	8	8	8*			8	8			72	16	1.75	2.625	168.00			168.00
Miner																									
Petrovic, Ivan	1st	8	8	8			8	8	8	8	8	8*		8	8	8		88	8	1.75	2.625	175.00	$ 2.63	1.50	170.87
523-42-8048	2nd	8	8	8*		8	8	8	8	8	8*		8	8	8	8	8	96	16	1.75	2.625	210.00	3.15	9.70	197.15
Hoistman																									
[illegible]th, Michael B.	1st	8	8	8			8	8	8	8	8	8*		8	8	8		88	8	1.75	2.625	175.00	2.63	29.20	143.17
[illegible]3-40-7790	2nd	8	8	8*		8	8	[illegible]	8	8	8*		8	8	8	8	8	96	16	1.75	2.625	210.00	3.15	37.40	169.45
Miner																									
																		TOTAL LABOR				$1,113.00	$11.56	$77.80	$1,023.64
Smith, Joseph M.	1st	8	8	8			8	8	8	8	8	8*		8	8	8		88	8	2.00	3.00	200.00			200.00
522-07-9589	2nd	8	8	8*					8	8	8		8	8	8	8	8	80	8	2.00	3.00	184.00			184.00
Supervisor																									
																		SUPERVISION				384.00			384.00
																		TOTAL LABOR and SUPERVISION				$1,497.00	$11.56	$77.80	$1,407.64

* - Overtime

Certified to be a true summary of
subject payroll for July, 1953

J. Olson

State Compensation Insurance Fund

NOTICE OF CHANGE IN RATES AND CHANGE OF RATE ENDORSEMENT

JOSEPH M. SMITH & 22946
CHARLES R. RUGG dba 1
SMITH & RUGG
BOX 354
NEDERLAND, COLO.

CHANGE OF RATE OF ENDORSEMENT***

In consideration of the increased benefits provided by the recent amendments to the Workmen's Compensation and Occupational Disease Laws of Colorado, and pursuant to the provisions of the policy to which this Endorsement is attached, and by reason of the approval of the Industrial Commission of Colorado thereto, the present rate or rates applicable to the insurance provided by said policy and any endorsements forming a part thereof, are increased a flat 7.3% for the period beginning May 1, 1953 and ending with the termination date of the current annual policy period.

The premium computed under the foregoing rate change shall be adjusted and paid in accordance with the provisions of the said policy.

Nothing herein shall be held to vary, waive, alter or extend any of the provisions or conditions of said policy except as above stated.

Attached to and forming a part of the above identified policy issued by the State Compensation Insurance Fund of Denver, Colorado.

IN WITNESS WHEREOF The Industrial Commission of Colorado has caused this endorsement to be signed by its chairman, and manager of the State Compensation Insurance Fund, this 15th day of April, 1953.

STATE COMPENSATION INSURANCE FUND

Manager

INDUSTRIAL COMMISSION OF COLORADO

Chairman

***At the recent session of the Colorado General Assembly certain bills were enacted amending the Workmen's Compensation and Occupational Disease Laws. These amendments went into effect on March 6, 1953. They provide for an increase in the weekly benefit rate and make other changes adding considerably to the cost of both compensation and occupational disease cases. It has been found that it will require an increase of 7.3% in the current premium rates to meet adequately the increase in loss payments resulting from the aforesaid amendments. The Industrial Commission, by resolution, approved the said 7.3% rate increase and has made it effective as of May 1, 1953, for the unexpired portion of the current annual period. The additional premium resulting therefrom will be calculated when the next annual payroll audit of your policy is made. Therefore, if your policy is on a monthly or quarterly adjustment basis, do not attempt to figure this rate change in your payroll reportings, but continue them at the present rates. The foregoing will serve to constitute the needed Change of Rate Endorsement, and should, as it states, be attached to your policy. This rate increase should not be confused with the regular yearly rate revisions based on ordinary loss experience. The latter take effect on the anniversary renewal date of your policy.

SMITH and RUGG
DMEA - 2296
CONTRACT Idm -E278
July - 1953

NARRATIVE REPORT

1. 208-A Raise - Advanced from 42.0 ft. above track to 94.0 ft. above track. Advance 52.0 ft. All material removed from this raise has been saved, containing 0.50% to 1.50% WO_3.

2. 209-A Raise - Advanced from 11.0 ft. above track to 54.0 ft. above track on small vein showing some ferberite. No ore worth saving and will discontinue work on this raise. Advance 43.0 ft.

3. 209-B Raise - Advanced from 23.0 ft. above track to 33.0 ft. above track. All material removed from this raise has been saved. Containing approximately 0.60% WO_3. Will continue. Advance 10.0 ft.

4. Total Advance all places 105.0 ft.

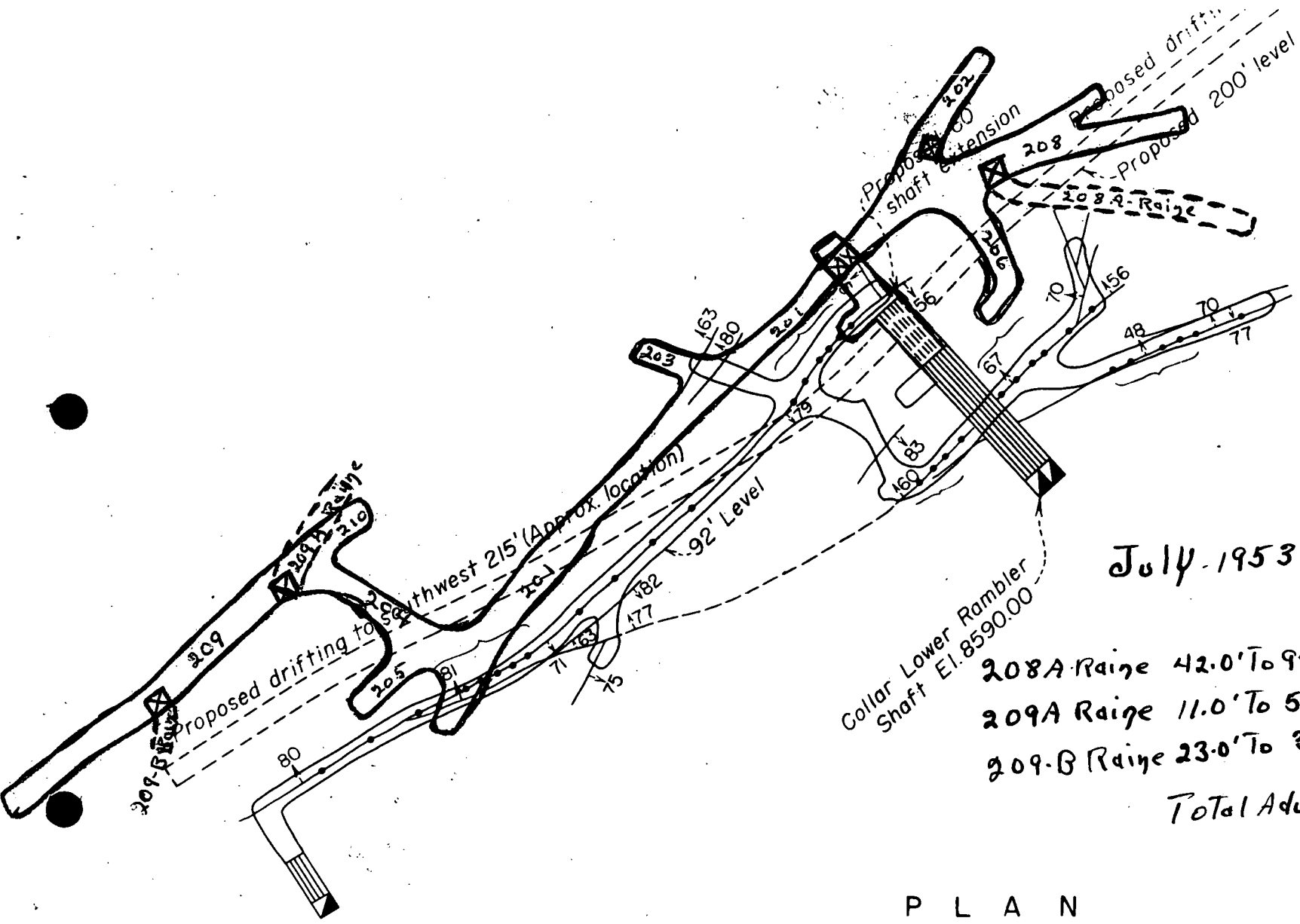
5. Timber and chutes put in all raises to approximately 16.0 ft. above track.

6. Operating Crew - One man on surface and three underground most of the month.

7. Unusual Difficulties - No unusual difficulties encountered.

SMITH and RUGG

By Joseph M. Smith
JOSEPH M. SMITH, Partner



July 1953.

		Advance
208A Raise	42.0' To 94.0'	52.0'
209A Raise	11.0' To 54.0'	43.0'
209-B Raise	23.0' To 33.0'	10.0'
Total Advance		105.0'

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

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

224 New Customhouse
Denver 2, Colorado

August 14, 1953

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the period of June, 1953, pertaining to DMEA Docket 2296, Contract Idm-E278, Smith and Rugg (Rambler Mine), Boulder County, Colorado.

W. H. King
W. H. King

Enclosures

MF-104
June

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

Received
AUG 10 1953

Administrative Audit Difference Statement

Date: August 10, 1953
Payee's
Reference: Progress
Report - June, 1953

Joseph D. Grill & Charles D. Duff
Nederland, Colorado
I-0141-0270

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

Amount Claimed $1,691.35

Difference $ 102.29

Amount Approved $1,589.06

The reason for the difference was due to:

Repairs to operator owned compressor not allowed	$112.50
Stearns-Rogers repairs to Stoper not listed in contract	24.79
O & S Oil Drum (deposit - not allowed)	5.00
	$102.29

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

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

224 New Customhouse
Denver 2, Colorado

July 31, 1953.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado. Operator's Monthly Progress Report for the period June 1953.

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

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deductions.

Operating Materials and Supplies - Miscellaneous	
Stearns-Rogers (Parts for Cp-34 stoper)	$24.79
Stoper not listed in contract, therefore repairs for same are not allowable.	
C&K Oil (drum deposit)	5.00
Not an allowable cost	
Repairs to Equipment	112.50
Connecting rod for Operator's Compressor is considered as a major repair item and is not allowable.	
Total Disallowances -	$142.29

Remarks:

Date of Report	July 13, 1953
Date Received in Field Office	July 15, 1953
Date Received in Region Office	July 27, 1953
Date Processed for Payment	July 30, 1953.

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 24, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for June 1953

There are enclosed the original and four copies of the above progress report--forms MF-104 and MF-104A, with narrative, progress map, letter to State Compensation Insurance Funds, and required documentation--and the original and six copies of R. L. Bolmer's memorandum covering inspection of the underground progress and June 1953 accounts.

Advance of the 209 drift, 5.5 feet, 208A raise, 20.5 feet; 208 vein split, 8.0 feet; 210 drift, 11.0 feet, 209A raise, 4.0 feet; and 209B raise, 16.0 feet, were all verified correct. Operations are described in the covering memorandum report.

Documentation and accounting procedures conform with the terms of the contract and are approved within the limits of our delegated authority, except:

Item 3, Operating Materials and Supplies	
Miscellaneous	
*Stearns-Roger (Parts for Cp-34 stoper)	$24.79
**C & K Oil (drum deposit)	5.00
Total disallowed	$29.79

*Equipment not listed in contract. Will require an amendment to reclaim.
**Not an allowable cost.

The total disallowed, $29.79 deducted from the $1,691.35 claimed by the contractor, leaves $1,661.56 of the sum $1,246.17, or 75 percent is approved for payment subject to usual Region IV audit.

W. M. Traver

W. M. Traver

enclosures

cc
E278
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 24, 1953

Memorandum

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

From: E. L. Bolmer

Subject: DMMA 2296, Contract Idm-R278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for June 1953

Progress under the subject contract was inspected July 21, 1953, with the operators. The advance reported in the operator's narrative and on form MF-104A was confirmed during the inspection. Most of the progress reported for the period had been completed on the date of an earlier inspection and the conditions encountered therein discussed in the May progress report.

The 209 drift was advanced 5.5 feet during the period. The vein being followed narrowed to 1 inch in width some 92 feet southwest of 204 crosscut, and as the structure had been barren of mineral for some 20 feet, the drift was stopped. Raises 209A and B on the same vein were 30 and 17 feet, respectively, above the back of the drift during the inspection. The vein, as exposed in both raises, contains fairly continuous ferberite overwidths from 1/2 to 2 inches. An "iron" dike exposed in B raise contains some ferberite in the dike itself and also along its contact with the granite. The continuation of both raises is approved for as long as mineral is indicated.

Raise 208A had been advanced some 75 feet above the back of 208 drift on the date of inspection. The raise is inclined toward the northeast and has followed the northeastern edge of a 1- to 4-inch ferberite ore body the full distance. The operators believe that the ore exposed in the raise will extend some 35 to 50 feet southwest to the shaft. An 8-inch sample of this vein at a height of 25 feet in the raise assayed 13.5 percent WO_3. The continuation of 208A raise is approved. If the raise does not intersect existing workings on the 90-foot level, some exploration of the vein on or above that level may be advisable.

The operators were given permission to advance the 203 crosscut a few rounds. Other than this crosscut and the three raises presently

being driven, the only additional work contemplated is an exploratory raise on mineralization encountered southwest along the 201 drift.

To date, the work performed by the operators has been efficient. The unit costs experienced for drifting, crosscutting, and raising are well below the average for such work.

Incurred costs in the amount of $1,691.35 are reported this period. Except as noted below, the individual costs reported conform to the provisions of the contract and have been substantiated in the prescribed manner.

Exceptions taken to the costs reported by the operator:

Stearns-Roger (parts for Cp-34 stoper)	$24.79
C & K Oil (drum deposit)	5.00
Total costs not accepted	$29.79
Total accepted costs	$1,661.56

Payment to the operator of 75 percent of the accepted costs, or $1,246.17, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

cc 6
E278
DMEA Chron.

RLB/pam

SMITH & RUGG
DMEA - 2296
CONTRACT Idm - E 278
RAMBLER MINE
June - 1953

NARRATIVE REPORT

1. 209 Drift - Advanced from 86.5 feet from center of 204 cross cut to 92.0 feet. Vein pinched down so work here stopped. Advance 5.5 feet.

2. 208-A Raise - Advanced from 21.5 feet above track to 42.0 feet. Nice streak of ferberite showing length of raise. Advance 20.5 feet. All material removed this advance is being saved for milling. Estimated to run 1.5% WO 3.

3. 208 - Split - Advanced 8.0 feet and lost vein. Work stopped.

4. 210 - Drift - Advanced from 10.0 feet from center of 204 cross cut to 21.0 feet. Good looking vein - no ore. Work stopped. Advance 11.0 feet.

5. 209-A Raise - One round shot up on small showing of ore - no improvement - will continue. Advance 4.0 feet.

6. 209-B Raise - Raise started where 209 drift vein cuts iron dike. One inch fair ferberite showing. Advanced to 23.0 feet above track. Advance 16 feet. Total advance all places - 65 feet.

7. Several days lost - On account of compressor breakdown. Oneman on payroll this period.

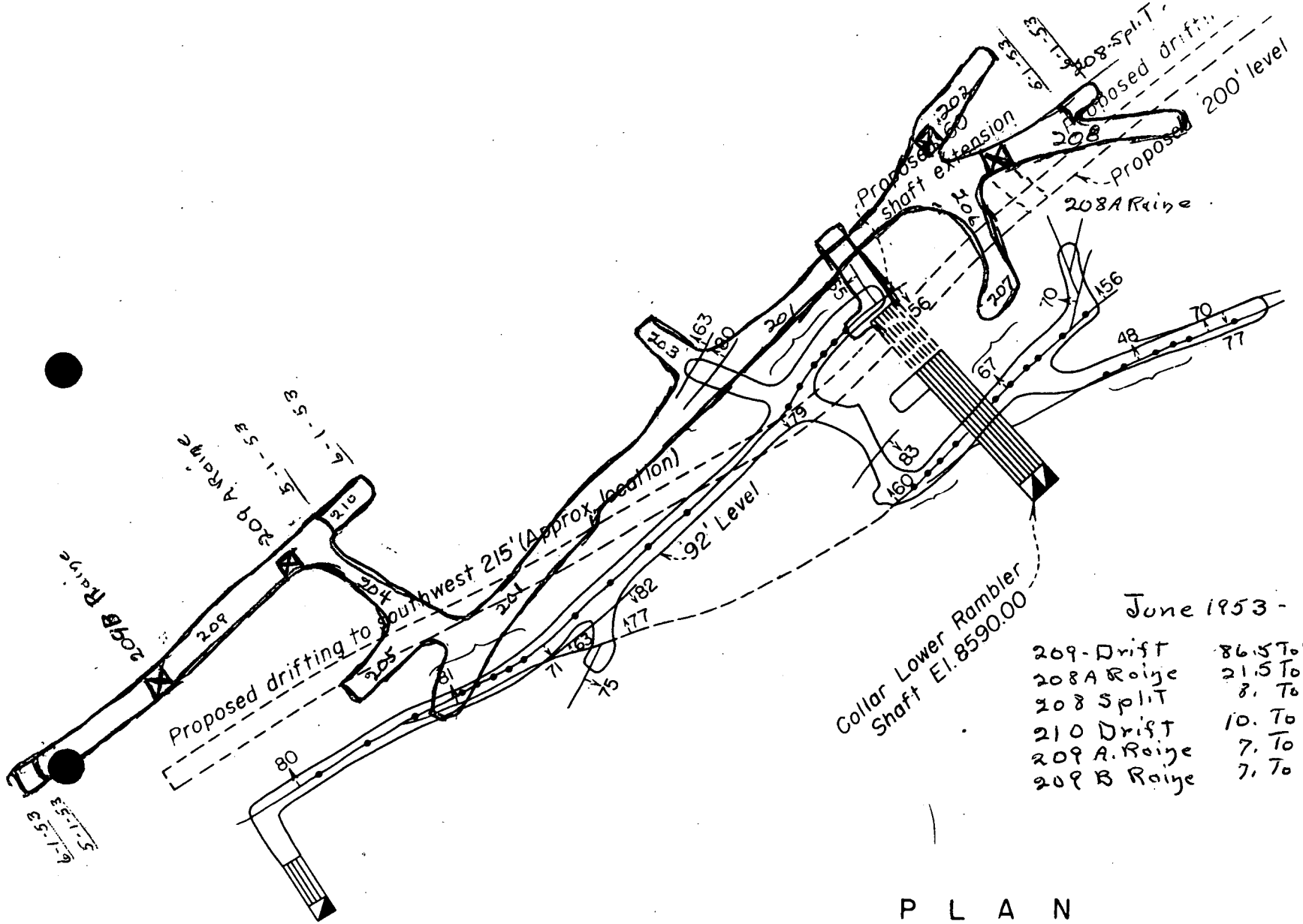
8. Operating Crew - Four men six (6) days weekly - part of month.

9. Unusual Difficulties - None other than those indicated above.

SMITH & RUGG

Joseph M. Smith

Joseph M. Smith, Partner



June 1953 -

		Advance
209-Drift	86.5 To 92.	5.5
208A Raise	21.5 To ~~42.0~~	20.5
208 Split	8. To 16.	8.0
210 Drift	10. To 21.	11.0
209 A. Raise	7. To 11.	4.0
209 B Raise	7. To 23.	16.0
		65.0 ft.

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1953 Docket No. DMEA 2296 Contract No. E-278
Operator's Name SMITH & RUGG Minerals Tungsten
Address P.O. Box 354 - 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	Feet	$ 952.23	24.5	$9319.27	425.5	21.90	515	
Crosscutting	Feet			2619.15	110.0	23.81	125	
Raising	Feet	739.12	40.5	2290.84	94.0	24.37	50	
Shafts	Feet			2785.94	35.0	79.59	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground rehabilitation				1196.41				
TOTAL DISTRIBUTED COSTS		$1691.35	65.0	$18,211.61	664.5		750	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				198.90				305.00
Initial Rehabilitation and Repairs				66.84				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		$1691.35		$18,477.35				$24,400.00

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

Date July 13, 1953 Operator SMITH & RUGG
Per Joseph M Smith Title Operator

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

(Instructions on reverse)

REMARKS: Operating costs allocated on basis of labor costs for each operation during June, as follows

	Labor	Percent
Drifting	$617.00	56.3
Raising	479.00	43.7
	$1096.00	100.0%

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 83-38475

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1953 Docket No. DMEA 2296 Contract No. E 278
Operator's Name SMITH & RUGG Minerals Tungsten
Address P.O.Box 354 - Nederland, Colorado
Contract Amount, $ 24,400.00 Government Participation: 75 % Amount, $ 18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	896.00	6384.70	7280.70			
Supervision	200.00	3608.00	3808.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives	102.66	1605.99	1708.65			
Pipe		174.17	174.17			
Track		71.37	71.37	291.79		
Miscellaneous	181.79	2181.93	2363.72	152.00	2,181.93	2,333.93
(4) Operating Equipment:						
Rental	100.00	975.00	1075.00			
Purchase		198.90	198.90			
Depreciation	40.00	370.00	410.00			
(5) Initial Rehabilitation and Repairs		66.84	66.84			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	112.50	184.16	296.66	00	184.16	184.16
Sampling and Analysis		4.00	4.00			
Payroll Taxes	9.65	47.73	57.38			
Liability Insurance W/Comp	14.00	431.00	445.00			
Accounting	34.75	413.00	447.75			
Hauling Equipment		12.88	12.88			
(8) Contingencies (specify):						
TOTALS	$1691.35	$16,786.00	$18,477.35	1,549.06	16,786.00	16,335.06

I certify that the above bill is correct and just and that payment therefor has not been received.
Date July 13, 1953 *Payee SMITH & RUGG
Per Joseph M Smith Title Operator

*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:

$ 1161.80

Signature
(Authorized Certifying Officer)

Date 8/10/53 Vou. No. DMA 54-14
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-228 in accordance with the terms of the contract.

Signature R. Pohmer, #1,246,17 Title Mining Engineer Date July 23, 1953

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

Signature W. H. King Title Executive Officer Date JUL 31 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

SMITH & RUGG
DMEA - 2296
CONTRACT Idm -E278

EXPENSE SUMMARY - June , 1953

PAYEE	Ck. No.	TOTAL AMOUNT	(2) LABOR & SUPERVISION Labor	Suprv.	(3) OPERATING SUPPLIES Descrip.	Amt.	(4) OPERATING EQUIPMENT Descrip.	Rental	Depr.	(7) MISCELLANEOUS Item	Amt.
Payroll per summary attached		$1,096.00	$896.00	$200.00							
Payroll taxes - June		9.65								Payroll taxes	$ 9.65
Valontine Hardware Company	163	120.15			Miscellaneous	$7.65				Repairs -Jack Hammer	112.50
State Compensation Insurance Fund	164	14.00								W/Comp. Ins.	14.00
Wilkins & Schone	165	34.75								Accounting	34.75
Stearns Rogers Mfg. Co.	166	24.79			Miscellaneous	24.79					
C & K Oil Company	168	147.53			Gas & Oil	147.53					
Industrial Engineering & Supply Co.	173	204.48			Explosives	102.66	Generator	$75.00			
					Miscellaneous	1.82	Pump	25.00			
Depreciation of Operator's Equipment per contract		40.00					Jackhammer		$ 5.00		
							Compressor		25.00		
							Dump Truck		10.00		
TOTALS		$1,691.35	$896.00	$200.00		$284.45		$100.00	$40.00		$170.90

SMITH & RUGG
DMEA - 2296
CONTRACT Idm - E278

PAYROLL SUMMARY - June, 1953

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL HOURS Reg.	TOTAL HOURS O.T.	RATES Reg.	RATES O.T.	GROSS WAGES	S.S. TAX	W.H. TAX	NET PAID
	1st Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
	2nd Period	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30								
RUGG, Charles R.	1st	8	8	8	8	8	8*									8	48	8	$1.75	$2.625	$ 105.00	$	$	$ 105.00
521-14-9903	2nd	8	8	8	8	8*		8	8	8					8	8	72	8	1.75	2.625	147.00			147.00
Miner																								
TYLER, John	1st	8	8	8	8	8	8*										40	8	1.75	2.625	91.00	1.37		89.63
522-09-2131	2nd																							
Miner																								
PETROVIC, Eivan	1st	8	8	8	8	8	8*		8	8	8	8	8	8*		8	88	16	1.75	2.625	196.00	2.94	6.30	186.76
523-42-8048	2nd	8	8	8	8	8*		8	8	8	8	8	8*		8	8	88	16	1.75	2.625	196.00	2.94	6.30	186.76
Hoistman																								
SMITH, Michael	1st								8	8	8	8	8	8*		8	48	8	1.75	2.625	105.00	1.58	15.40	88.02
523-40-7790	2nd	8	8	8												8	32		1.75		56.00	.84	5.80	49.36
Miner																	TOTAL LABOR				$ 896.00	$ 9.67	$ 33.80	$852.53
SMITH, Joseph M.	1st								8	8	8	8	8	8*		8	48	8	2.00	3.00	$ 120.00			$ 120.00
522-07-9589	2nd	8										8	8		8	8	40		2.00		80.00			80.00
Supervisor																	SUPERVISION				$ 200.00			$ 200.00
																	TOTAL LABOR & SUPERVISION . . .				$1096.00	$ 9.67	$ 33.80	$1052.53

* - Overtime

Certified to be a true summary of subject payroll for June, 1953.

W. Shore

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

224 New Customhouse
Denver 2, Colorado

July 7, 1953

Memorandum

2296

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: MF-104, DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report Form MF-104, and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the period of May, 1953, pertaining to DMEA Docket 2296, Contract Idm-E278, Smith and Rugg (Rambler Mine), Boulder County, Colorado.

W. H. King
W. H. King

Enclosures

MF-104
7 May

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

224 New Customhouse
Denver 2, Colorado

July 3, 1953

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado - Operator's Monthly Progress Report, for the period May, 1953.

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

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Remarks:

Date of Report----------June 11, 1953
Date Received in Field Office----------June 12, 1953
Date Received in Region Office----------July 1, 1953
Date Processed for Payment----------July 2, 1953

W. H. King
W. H. King

Enclosures

RDB:es

cc: Contract
Sec. to Oper. Comm. (2)
Chron.
Traver

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 1, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for May 1953

Submitted herewith are the original and four copies of the subject progress report--forms MF-104 and MF-104A, with narrative, progress map, and required documentation--and the original and six copies of R. L. Bolmer's memorandum covering inspection of the underground progress and accounts for May 1953.

The progress comprising 71 feet advance of the 209 drift, 2 feet advance of the 208-A raise, and 8 feet of slabbing the 208 drift are correctly reported in the narrative and entered on the MF-104A form. Physical conditions are adequately described in the memorandum, and the assays of samples taken during the May inspection are reported.

The accounting and documentation conforms with the terms of the contract and are approved within the limits of our delegated authority to verify them.

Payment is approved and certified on the MF-104 form of $1,573.67, or 75 percent of the total $2,098.23 claimed by the contractor, subject to usual Region IV audit.

W. M. Traver

W. M. Traver

enclosures

WMT/pam

cc: 4
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 1, 1953

Memorandum

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

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-5278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for May 1953

Progress under the subject contract was inspected June 17, 1953, with G. R. Rugg. The progress reported in the operator's May narrative, 71 feet of advance in 209 drift, 2 feet of advance in 208-A raise, and 8 feet of slabbing along 208 drift, was confirmed during the inspection. The advance is shown correctly on the operator's map.

On the date of inspection, the shear zone exposed in the hanging wall of 208 drift had been prospected by a short drift, the breast of which measured 21 feet from the center of 208 drift. The zone, which had shown some quartz and gouge in 208 drift, tightened and was barren of ferberite within this distance. Further work is not anticipated here.

Raise 208-A was measured as 25 feet above the back of 208 drift. An 8-inch quartz vein in granite, containing 2 to 2-1/2 inches of high-grade ferberite, was exposed for 10 feet across the back of the raise. A sample (RLB-37) was taken across the vein at this location. A sample (RLB-32) across 2-1/2 inches of mineral taken May 19, 1953, at a 14-foot height in the raise assayed 21.9 percent WO_3. Although the mineral in this raise is narrow, it is pure and easy to concentrate and is considered commercial by the operators. Material removed to date from this raise has been concentrated to 55-60 percent WO_3 at the operator's mill.

The vein in 209 drift continued similar to the description given in the April report. Narrow streaks of high-grade ferberite are exposed intermittently along the vein to the breast, 86-1/2 feet from 204 crosscut. Two raises have been started on the most favorable mineral showing along the drift, 5 and 24 feet southwest of the crosscut. The raises, respectively 4 and 12 feet above the back of the drift, each expose about 2 inches of mineral in the vein. Drift 210,

also on this vein, had been advanced to 21 feet northeast of the crosscut on the date of inspection. In the breast, the vein consisted of 4 to 5 inches of quartz but contained no mineral. The operator was given permission to extend crosscut 203 a few rounds in an attempt to cut this vein some 90 feet northeast of the breast of 210 drift.

The analyses of samples RLB-30 and -31, taken May 19, 1953, of this vein and its mineral streak at the junction of 204 crosscut and 209-10 drifts, are as follows:

RLB-30	(over 15-inch vein)	6.8 percent WO_3
RLB-31	(over 3-inch mineral streak in vein)	29.1 percent WO_3

The Operator's Monthly Report and Voucher, form MF-104, and supporting documents for May 1953 have been reviewed and appear in order. Incurred costs totaling $2,098.23 have been reported. The costs, as reported, are reasonable and justified and are approved.

Payment of 75 percent of the amount reported by the operator, or $1,573.67, is recommended.

R. L. Bolmer
Mining Engineer

RLB/pam

cc: 6
2278
DMEA Chron.

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1953 Docket No. DMEA 2296 Contract No. Idm E 278
Operator's Name Smith & Rugg Minerals Tungsten
Address P. O. Box 354 - Nederland, Colorado
Contract Amount, $ 24,400.00 Government Participation: 75% Amount, $ 18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	1029.00	5355.70	6384.70			
Supervision	264.00	3344.00	3608.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives	233.07	1372.92	1605.99			
Pipe		174.17	174.17			
Track		71.37	71.37			
Miscellaneous	269.43	1912.50	2181.93			
(4) Operating Equipment:						
Rental	150.00	825.00	975.00			
Purchase		198.90	198.90			
Depreciation	40.00	330.00	370.00			
(5) Initial Rehabilitation and Repairs		66.84	66.84			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		184.16	184.16			
Sampling and Analysis		4.00	4.00			
Payroll Taxes	11.98	35.75	47.73			
Liability Insurance W/Comp.	55.00	376.00	431.00			
Accounting	45.75	367.25	413.00			
Hauling Equipment		12.88	12.88			
(8) Contingencies (specify):						
TOTALS	2098.23	14,687.77	16,786.00	2098.23	14,687.77	16,786.00

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

Date June 11, 1953 Payee Smith & Rugg

Per Joseph M Smith Title Partner

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

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

(Instructions on reverse)

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

$1573.67

Signature [illegible]
(Authorized Certifying Officer)

Date 7/7/53 Vou. No. DMM 54-6
(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-278 in accordance with the terms of the contract.

Signature P. L. Bolmer, $1573.67 Title Mining Engineer Date June 23, 1953

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

Signature W. H. King Title Executive Officer Date JUL - 3 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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1953 Docket No. DMEA 2296 Contract No. Idm E 278

Operator's Name Smith & Rugg Minerals Tungsten

Address P. O. Box 354 - 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	feet	2022.69	79	8367.04	401	20.85	515	
Crosscutting	feet			2619.15	110	23.81	125	
Raising	feet	75.54	2	1551.72	53.5	29.00	50	
Shafts	feet			2785.94	35	79.59	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				1196.41				
Total Distributed Costs		2098.23	81	16,520.26	599.5			Total Costs Authorized by Contract
Operating Equipment Purchased				198.90				305.00
Initial Rehabilitation and Repairs				66.84				250.00
New Buildings, Improvements, etc.								
Total Costs		2098.23		16,786.00				24,400.00

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

Date June 11, 1953 Operator Smith & Rugg

Per Joseph M. Smith Title Partner

Remarks: Operating costs allocated on basis of labor costs for each operation during May, as follows:

	Labor	Percent
Drifting	$1,249.00	96.4
Raising	46.00	3.6
	$1,293.00	100.0%

→ 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

SMITH & RUGG
DMEA - 2296
Contract Idm: E 278
May, 1953

NARRATIVE REPORT

1- 209 - Drift. Advanced from 15.5 ft. from center of 204 crosscut to 86.5 ft., following small streak of ferberite in good vein most of distance. Advance - 71. feet this month.

2- 208 A-Raise. Advanced from 19.5 ft above track to 21.5 ft.. Nice streak of ferberite showing length of raise. ½ inch to 6 inches of approximately 15% ore. Advance - 2 feet.

3- 208 - Split. Two slab rounds in hanging wall of 208 drift beginning 36 ft. from center of 206 crosscut. Have exposed good vein with quartz running N-50° East. Advance - 8 feet.

4- Total advance All places 81. feet.

5- Operating Crew. Three men working six days weekly, all of month.

6- Delays and Difficulties. Short delay replacing connecting rod in compressor.

7- Pump operating Six hours daily.

SMITH & RUGG

By Joseph M Smith

SMITH & RUGG
DMEA - 2296
CONTRACT - Idm E 278

EXPENSE SUMMARY - May, 1953

PAYEE	CK. NO.	TOTAL AMOUNT	(2) LABOR & SUPERVISION Labor	Suprv.	(3) OPERATING SUPPLIES Descript	Amt.	(4) OPERATING EQUIPMENT Descript.	Rental	Depr.	MISCELLANEOUS Item	Amt.
Payroll - per summary attached		$1,293.00	$1,029.00	$264.00							
Payroll tax accrued for May		11.98								payroll Taxes	11.98
Ingersoll Rand	146	28.10			Misc	28.10					
C. & K. Oil Company	151	193.34			Gas & Oil	193.34					
Wilkins & Schone	154	45.75								Acct'g	45.75
State Comp. Ins. Fund	155	55.00								W/Comp Ins.	55.00
Industrial Engineering & Supply Co.	156	410.37			Misc. Explosives	27.30 233.07	Pump Generator	37.50 112.50			
Dicks Corner Service	157	20.69			Gas & Oil etc	20.69					
Depreciation of Operators Equipment per contract		40.00					Compressor Jack Hammer Dump Truck		25.00 5.00 10.00		
TOTALS		$2,098.23	$1,029.00	$264.00		$502.50		$150.00	$40.00		$112.73

SMITH & RUGG
DMEA - 2296
CONTRACT - Idm E 278

PAYROLL SUMMARY - May, 1953

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL HOURS		RATES		GROSS	S. S.	W.T.	NET PAID
	1st Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Reg	O.T.	Reg	O.T.				
	2nd Period	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31								
Smith, Joseph M	1st	8	8*		8	8	8	8	8	8*							48	16	$2.00	$3.00	$ 144.00			$ 144.00
522-07-9589																								
Supervisor	2nd								8		8	8	8	8	8	8*	48	8	2.00	3.00	120.00			120.00
											Total Supervision										264.00			264.00
Rugg, Charles R.	1st	8	8*							8		8	8	8	8	8	56	8	1.75	2.625	119.00			119.00
521-14-9903																								
Miner	2nd	8*		8	8	8	8	8	8*								40	16	1.75	2.625	112.00			112.00
Tyler, John T.	1st	8	8*		8	8	8	8	8	8*		8	8	8	8	8	88	16	1.75	2.625	196.00	$ 2.94	$ 6.30	186.76
522-09-2131																								
Miner	2nd	8*		8	8	8	8	8	8*		8	8	8	8	8	8*	80	24	1.75	2.625	203.00	3.04	7.70	192.26
Petrovic, Evan	1st	8	8		8	8	8	8	8	8*		8	8	8	8	8	88	16	1.75	2.625	196.00	2.94	6.30	186.76
523-42-8048																								
Hoistman	2nd	8*		8	8	8	8	8	8*		8	8	8	8	8	8*	80	24	1.75	2.625	203.00	3.04	7.70	192.26
											Total Labor and Supervision										$1,293.00	$11.96	$28.00	$1,253.04

Certified to be a true summary of subject payroll for May, 1953

A.W. Schone

* Overtime

Smith and Rugg
Nederland, Colorado
April 10th 1953

COPY

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

Dear Mr. King:

Referring to Contract Docket No. DMEA 2296, Idm-E278, between USA and partnership consisting of Joseph M. Smith and Chas. R. Rugg.

Due to difficulty in obtaining experienced help, we request subject contract be amended as follows,

Under Exhibit "A" that part Labor and Supervision to read:

I	Foreman	$2.00 per hour	Maximum
2	Miners	$I.75 " "	"
I	Mucker	$I.50 " "	"
I	Hoistman	$I.75 " "	"
I	Bookkeeper	$50.00 per month	"

Labor Contracts may be given as follows: Contractor to Drill, break, place muck in bucket at shaft, install pipe and rais, and keep haulageway and station cleaned up, at following rates:

Drifts	Untimbered	$10.00 per ft.	maximum
Crosscuts	"	$10.00 " "	"
Raises	"	$10.00 " "	"

Very truly yours,

Smith and Rugg

/s/ Joseph M. Smith

Partner

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

400

224 New Customhouse
Denver 2, Colorado

June 12, 1953.

Memorandum

WSM

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of April 1953, pertaining to DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado.

W. H. King
W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

May 29, 1953.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler Mine), Boulder County, Colorado. Operator's Monthly Progress Report for the period April 1953.

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

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deductions.

Remarks:

Date of Report	May 14, 1953.
Date Received in Field Office	May 15, 1953.
Date Received in Region Office	May 27, 1953.
Date Processed for Payment	May 28, 1953.

W. H. King
W. H. King

Enclosures

RDB:cwm

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

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 25, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for April 1953

Submitted herewith are the original and four copies of the subject progress report--forms MF-104 and MF-104A, with narrative and required documentation--and the original and six copies of R. L. Bolmer's memorandum covering inspection of the underground progress for the current month and for November 1952 and accounts for the month of April 1953.

Both monthly narratives by the operator report correctly the underground progress, and confirming entries on the reporting forms are verified. Bolmer adequately describes developments in the mine and took two samples of vein exposures in the drift and one raise sample during his inspection. The accounts are in order, properly documented, and conform with terms of the contract and amendments.

Payment is approved and certified on the MF-104 form of $328.48, or 75 percent of the total $437.98 claimed by the contractor, subject to usual Region IV audit.

W. M. Traver

W. M. Traver

enclosures

WMT/amh

cc: 4
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 25, 1953

Memorandum

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

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for April 1953

Operations under the subject contract, recessed since November 30, 1952, because of winter weather conditions, were resumed April 16, 1953. The progress during April reported in the operators' narrative--unwatering, clean-up, and 8 feet of advance in 209 drift--was confirmed during my inspection of the property on May 19, 1953. Progress reported under the contract during November, not inspected at that time because of the shutdown, also was confirmed. The operators' November narrative correctly reports the advance and the conditions encountered.

Crosscut 204 (see map with operators' report for November 1952), driven from near the breast of 201 drift, intersected at about 50 feet a parallel vein striking S. 47°-60° W. and dipping 66° northwest. At the intersection, the vein consists of 1 foot of quartz in granite and contains a 3-inch streak of high-grade ferberite. The vein as exposed for 10 feet to the northeast (210 drift) widens to 18 inches, but the mineral decreases to about 1/2 inch.

On the date of inspection, the vein had been opened for about 50 feet southwest of the crosscut (209 drift). The mineral decreases in width but is continuous to 23 feet southwest of the crosscut. In this distance, the vein narrows to 6 inches. From 23 to 39 feet, the vein is barren of mineral; from 39 to 44 feet, up to 1 inch of mineral again is exposed; from 44 feet to the present breast, the vein narrows to 3 inches and again is barren. Two samples were taken of the vein and the mineral streak at the junction of 204 crosscut and 209-10 drifts.

During November, raise 208A was reported driven to a height of 12.5 feet on a small ore showing. The top of this raise, measured during the inspection as 14 feet above the back of 208 drift, contained up to 2.5 inches of ferberite over a length of 8 feet. The mineral on the vein appears to be lengthening with height above the drift and raking northeast toward an area unexplored on the 92-foot level. A third sample was taken of the mineral streak exposed in the raise.

Including the operators, four men are employed for exploration work at the mine. Each of the operators spends about half-time on the project. The other half of each operator's time is spent at their mill in Nederland.

Ore removed from 208A raise and from 209-10 drifts has been milled by the operators. To date, approximately 390 pounds of concentrates (60 percent WO_3) were recovered from the raise and approximately 350 pounds of concentrates (55 percent WO_3) were recovered from the drifts. The concentrates are being held separately and probably will be sold to the Government's stockpile when the minimum quantity of 1 ton has been accumulated.

The operators' monthly report and supporting documents have been reviewed and appear to be in order. The supply and service charges incurred this period are considered necessary and do not appear excessive. The costs incurred are supported by the required documentation and are shown distributed correctly on forms MF-104 and MF-104A. The total amount claimed by the operators, $437.98, is approved. Under this contract, Government participation in the approved costs is 75 percent, or $328.48.

R. L. Bolmer
Mining Engineer

RLB/amh

cc: 6
E278
DMEA Chron.

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 1953 Docket No. DMEA 2296 Contract No. E-278
Operator's Name Smith & Rugg Minerals Tungsten
Address P.O. Box 354, 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	feet	$159.42	8	6344.35	322	19.70	515	
Crosscutting	feet			2619.15	110	23.81	125	
Raising	feet			1476.18	53.5	27.59	50	
Shafts	feet			2785.94	35.0	79.60	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
~~XXXXXXX~~ ~~Underground Rehabilitation~~		278.56		1196.41				
TOTAL DISTRIBUTED COSTS		$437.98	8	14422.03				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				198.90				305.00
Initial Rehabilitation and Repairs				66.84				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		437.98		14687.77				

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 5/14/53 Operator Smith & Rugg
Per Joseph M Smith Title Partner

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

(Instructions on reverse)

REMARKS: Operating costs for April, 1953 allocated on basis of labor costs for each operation during April, as follows:

	Labor	Percentage
Drifting	120.00	36.4
Re-habilitation*	210.00	63.6
	$330.00	100.0%

* Unwatering and cleanup

(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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1953 Docket No. DMEA 2296 Contract No. E 278
Operator's Name Smith & Rugg Minerals Tungsten
Address P.O. Box 354, Nederland, Colorado
Contract Amount, $24,400.00 Government Participation: 75 % Amount, $18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	154.00	5201.70	5355.70			
Supervision	176.00	3168.00	3344.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives		1372.92	1372.92			
Pipe		174.17	174.17			
Track		71.37	71.37			
Miscellaneous	51.73	1860.77	1912.50			
(4) Operating Equipment:						
Rental		825.00	825.00			
Purchase		198.90	198.90			
Depreciation	20.00	310.00	330.00			
(5) Initial Rehabilitation and Repairs		66.84	66.84			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		184.16	184.16			
Sampling and Analysis		4.00	4.00			
Payroll Taxes		35.75	35.75			
Liability Insurance	10.00	366.00	376.00			
Bookkeeping	26.25	341.00	367.25			
Hauling Equipment		12.88	12.88			
(8) Contingencies (specify):						
TOTALS	437.98	14,249.79	14,687.77	437.98	14249.79	14687.77

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

Date 5/14/53 *Payee Smith & Rugg

Per Joseph M. Smith Title Partner

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

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

(Instructions on reverse)

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

$ 328.48

Signature Alfred K. Olson
(Authorized Certifying Officer)

Date 6-11-53 Vou. No. 53-145

(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-278 in accordance with the terms of the contract.

Signature R.P. Palmer, #328.48 WMT Title Mining Engineer Date May 21, 1953

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

Signature W. L. King Title Executive Officer Date MAY 29 1953

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

SMITH & RUGG
RAMBLER MINE
Idm - E 278
CONTRACT DMEA-2296
April, 1953

NARATIVE REPORT.

1. Operations resumed- April 16, 1953
   Un-Watering started April 16th and completed April 21st by one man tending pump daily.
2. Cleanup of coves started April 22nd and completed April 25th, one man underground and one man on surface.
3. 209 Drift- Drifting started South west and advanced 8ft to point 15.5ft. from center of 204 cross-cut. Small ore in four inches of good quartz being followed. One man underground and one on surface.
4. Refer to Nov. 1952 Map.-Map this month thought to be unnecessary because of small advance.

SMITH & RUGG

By Joseph M Smith
Joseph M. Smith

SMITH and RUGG
DMEA - 2296
CONTRACT - Idm-E 278

EXPENSE SUMMARY - APRIL 1953

PAYEE	CK NO.	TOTAL AMOUNT	(2) LABOR & SUPERVISION Labor	Superv.	(3) OPERATING SUPPLIES Description	Amt.	(4) OPERATING EQUIPMENT Description	Depr.	MISCELLANEOUS Item	Amt.
Payroll - per summary attached		$330.00	$154.00	$176.00						
Wilkins and Schone	138	26.25							Book-keeping	$26.25
Jim Pearce Drill Shop	493	51.73			Repairs	$51.73				
State Compensation Insurance Fund	143	10.00							W/Comp. Ins.	10.00
Depreciation of Operators Equipment per contract (½ month)		20.00					Compressor Jack Hammer Dump Truck	$12.50 2.50 5.00		
TOTALS		$437.98	$154.00	$176.00		$51.73		$20.00		$36.25

SMITH and RUGG
DMEA - 2296
CONTRACT Idm E 278

PAYROLL SUMMARY APRIL - 1953

	Period 16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL HOURS Reg.	TOTAL HOURS O.T.	RATES Reg.	RATES O.T.	GROSS	S.S.	W.H.T.	NET PAID
Rugg, Charles R. 521-14-9903 Miner	8		8		8		8	8	8	8		8	8	8	8	88		$1.75		$154.00			$154.00
Smith, Joseph M. 522-07-9589 Supervisor		8		8		8	8	8	8	8		8	8	8	8	88		2.00		176.00			176.00
																TOTAL LABOR				$330.00			$330.00

Certified to be a true summary

of subject payroll for April, 1953

AW. Schone

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

224 New Customhouse
Denver 2, Colorado

January 26, 1953

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Amendment No. 4 to Contract Idm-E278, Docket DMEA 2296, Smith and Rugg

Enclosed are the original and two copies of Amendment No. 4 to Contract Idm-E278. Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files. Also enclosed are three copies of a letter from the operator requesting this amendment and three copies of a memorandum by a Bureau of Mines engineer recommending this amendment.

W. H. King

W. H. King

Enclosures

RECEIVED
APR - 9 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

400

FILE COPY
SURNAME:

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

Martin
Selfridge
Hoffman

BW.

JAN 1 2 1953

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

Re: Docket No. DMEA 2296-Tungsten
Smith and Rugg, Partners
Bambler Mine
Boulder County, Colorado
Contract No. Idm-2278

Dear Mr. King:

Enclosed is copy of memorandum of December 31, 1952, from our Chief Counsel to the Administrator with reference to Amendment No. 3 to the subject contract.

As you will observe from the foregoing, the Field Team should take any precautions that are necessary to determine that all mine workings completed or enlarged by the Operator under the contract are not only acceptable as to location and extent, but can also be clearly identified and distinguished from previous workings.

Sincerely yours,

Frank E. Johnson

Chairman, Operating Committee

Enclosures

J.C. 1/12/53

WSMartin/ls
1/7/53

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

cc: DOCKET
ADMN. READ. FILE
FT, REG. IV
CODE 400
OP. COM.
D.M.LEMMON, USGS
R.W.GEEHAN, USBM

140 2296

FILE COPY
SURNAME:

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

action

December 31, 1952

Memorandum

To: Administrator

From: Chief Counsel

Subject: Smith and Rugg, Partners, Docket No. DMEA-2296
Contract No. Idm-E278 - Tungsten

Reference is made to a memorandum dated November 26 from the Executive Officer, DMEA Field Team, Region IV, to the Administrator submitting Amendment No. 3 to the subject contract. The amendment has been executed by the parties and is in effect.

It is my opinion that Amendment No. 3 is improper and should not have been entered into in the form submitted. However, it is within the delegated authority of the Field Team Executive Officer, and will have to be administered as executed.

The contract, as amended by Amendments Nos. 1 and 2, provides for repairing the hoist house and headframe, unwatering and rehabilitating the shaft, deepening the shaft, drifting, crosscutting, and raising. Amendment No. 3 eliminates the raising, and provides that:

> "The balance of funds, originally allocated for 640 feet of drifting and crosscutting, and 60 feet of shaft sinking, which were not expended thereon by reason of geologic conditions encountered as the work progressed, may be expended for other drifting, crosscutting, slabbing or raising at locations acceptable and to the extent approved by the DMEA representative."

One trouble with this amendment is that no funds were ever "originally allocated" for the items indicated in the amendment. The estimated total cost of the project is $24,400.00, and I suppose this amount was allocated to this contract, but such allocation relates to nothing but the total. No amendment should ever be written in terms of "the balance of funds originally allocated." The allocation of funds is no part of the contract, and neither the contract nor any amendment should be expressed in such terms.

A more substantial objection to the amendment is that it provides for "drifting, crosscutting, slabbing or raising at locations acceptable and to the extent approved by the DMEA representative," without any specifications or description whatever of the work to be performed. I think this is an open door to fraud. Contribution can be claimed by the operator for any kind of work performed on the property falling within this description.

The total lack of description or specifications for the work might not be objectionable in the case of a property upon which no work whatever had been done previously. In the case of an old property with previous underground works, it seems likely to me that with the limited facilities DMEA has for checking the performance of work, the operator could claim for any kind of pre-existing work which had long been performed.

Under these circumstances, it is simply up to the Field Team to check the work and vouchers for payment to determine that the claims for the Government's contribution are proper.

J. L. Hofflund
Chief Counsel

Attachment

JLHofflund/mef
cc to: Mails and Files
Admr. R. File
Mr. Chambers
Mr. Selfridge
Mr. Kane
Mr. Hofflund
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 17, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

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

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Request for amendment to contract

Please find enclosed the original and five copies of R. L. Bolmer's memorandum recommending approval of the above request for an amendment to extend the contract for six months and for authority to recess operations until April 15, 1953.

I concur with Bolmer's recommendation.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

d/eb

cc 5
E278
DMEA Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 17, 1952

Memorandum

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

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Request for amendment to contract

The contractors under the subject contract have requested an amendment to provide for an extension of time in which to complete the project and also authorization for recessing operations during the winter months. An extension of six months and a recess until April 15, 1953, have been requested.

The reason for the recess is the adverse weather conditions prevailing during the winter months.

The cost of reopening the mine in the spring should be negligible compared to the expense and lower efficiency which will be incurred through a winter operation. A six-month extension will require the project to be completed by November 17, 1953.

The requested amendment and authorization are considered justified and are recommended.

R. L. Bolmer

R. L. Bolmer,
Mining Engineer

RLB/cb

cc: 5
E278, DMEA Chron

C O P Y

No. 4

AMENDMENT OF CONTRACT: No. Idm-E278

Contract Docket No. DMEA 2296, dated March 17, 1952, between the United States of America and a partnership consisting of Joseph M. Smith and Charles R. Rugg 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, delete "fourteen (14) months" and in lieu thereof substitute "twenty (20) months".

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may pay or the percentage of the costs which the Government may pay under the provisions of Article 13 of the contract form.

Dated January 26 1953.

/s/ Joseph M. Smith
Joseph M. Smith

UNITED STATES OF AMERICA

/s/ Charles R. Rugg
Charles R. Rugg

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

Nederland, Colorado
Post Office Box 354
December 6, 1952

Mr. W. H. King
Department of Interior
Defense Minerals Administration
424 New Custom House
Denver 2, Colorado

Subject: DMFA - 2296
CONTRACT - Idm 5-278

Dear Sir:

It is hereby requested that the subject contract be amended to provide for an extension of time of six (6) months in which to complete the contract, and it is further requested that authorization be granted for shutting down operations during the winter months - operation to be resumed on or before April 15, 1953.

The above requests are made due to the adverse weather conditions prevailing during the winter months which results in in-efficient operations.

It is understood that wages, depreciation and rental of equipment expense will cease during the shut down period.

Sincerely yours,

SMITH and RUGG

S&R:rm

By: Joseph W. Smith

/C
O
P
Y/

Nederland, Colo - E-278
Dec. 16, 1952

Mr. Wm. Traver
Bureau of Mines

Dear Mr. Traver:

I am enclosing to you Geo. Cowdery's agreement of suspension of required shifts on our lease on the Rambler Mine. As he made only one copy, I am sending it to you as you will know best what to do with it.

We closed the Rambler the end of November and removed all small equipment for safe keeping.

Started the Conger on Dec. 1st and to date have shipped mined ore and stope fill as follows -

6½ tons - 2.10% W.O.^{3}
12½ tons - 2.60%
12 tons - 1.80%
13 tons - 2.10%
28 tons - no returns yet

It looks like the old mine still has possibilities yet, but may require considerable development work. I hope we will be able to keep it going.

Will welcome a visit from yourself, Bob Bolmer and Ogden Tweto.

Regards,

/s/ Joseph M. Smith

C
O
P
Y

GEORGE W. COWDERY
Coal and Tungsten
420 Pine Street
Boulder, Colorado

December 10, 1952

Bureau of Mines
New Customhouse Building
Denver, Colorado

Dear Sirs:

Joseph M. Smith and Charles Rugg have asked that the working agreement in their lease on the Rambler be suspended until April 15, 1953, and I have agreed to this request due to the snow blocked roads, frozen pipe lines, etc., under these conditions they cannot operate in an economical manner.

Yours very truly,

/s/ George W. Cowdery

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

WSM

224 New Customhouse
Denver 2, Colorado

January 7, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JAN 14 1953

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278 (Tungsten)
Smith and Rugg (Rambler Mine) Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report MF-104, and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the period November, 1952, pertaining to DMEA Docket 229y, Contract Idm-E278, Smith and Rugg (Rambler Mine), Boulder County, Colorado.

John F. Shaw
John F. Shaw for
W. H. King

Enclosures

53-76

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

424 New Customhouse
Denver 2, Colorado

December 22, 1952

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten) Smith and Rugg (Rambler Mine) Boulder County, Colorado - Operator's Monthly Progress Report for the period of November, 1952

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

Operations at the Rambler Mine have been recessed for the winter months and no check of the progress reported for November, 1952 was possible. As a check will be made when operations begin in the spring, we recommend that payment be made for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

Remark:

Date of Report - December 11, 1952
Date received in Colorado Branch Office - December 15, 1952
Date received in Region IV Office - December 18, 1952
Date processed for Payment - December 22, 1952

W. H. King
W. H. King

Enclosure

RDB:oc
cc: Contract
Secretary to the Operating Committee (2)
WMTraver
Chron.
AHKoschmann (2)

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 16, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County Colorado - Progress report for November 1952

Enclosed please find five copies of the above progress report--forms MF-104 and MF-104A, with proper documentation--and seven copies of R. L. Bolmer's memorandum covering inspection of the accounts.

Authority was given the contractor verbally to recess operations for the winter before an inspection was possible and the underground progress was not checked. However, it is no doubt correct and will be verified when work is resumed. The accounting forms are in order except as noted by Bolmer: $53.66 for "Initial Rehabilitation and Repairs" entered on the MF-104A form but not on the MF-104 form.

Payment of $1,387.87, or 75 percent of the total $1,850.50 claimed by the contractor, is approved subject to verification by your staff and the Audit and Accounts Section of the correctness of applicable rates and arithmetical accuracy.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/cb

cc 4
AHKoschmann
E278
DMEA Chron

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
December 16, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Belmer

Subject: DMEA 2296, Contract Idm-K278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County Colorado - Progress report for November 1952

The progress as reported in the contractor's narrative is accepted as correct and complete. Operations at the Rambler mine have recessed for the winter. Work under the subject contract will be resumed in the spring of 1953. The mine has been allowed to fill with water and is not available for inspection. The progress reported by the contractor conforms with the terms of the contract and has been shown correctly on form MF-104A. The distribution of costs on form MF-104A is allocated on the basis of labor cost for each operation. On this form an amount of $53.66 has been distributed to "Initial Rehabilitation and Repairs". It is noted on the MF-104 form that a similar amount has not been separated from the other costs and distributed under item 5.

The supply and service charges incurred this period are considered necessary and do not appear excessive. The costs incurred are supported by the required documentation and are approved in the amount claimed. Payment of 75 percent of the amount claimed, or $1,387.87, is recommended.

R. L. Belmer

R. L. Belmer,
Mining Engineer

RLB/cb

cc 6
AHKoechmann
K278
DMEA Chron

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

JAN 12 1953

Month of November 1952 Docket No. DMEA 2296 Contract No. E-278
Operator's Name Smith & Rugg Minerals Tungsten
Address P.O. Box 354 - Nederland, Colo.
Contract Amount, $ 24,400.00 Government Participation: 75 % Amount, $ 18,300.00

1/14/53

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	655.20	4,559.70	5,214.90			
Supervision	344.00	2,840.00	3,184.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives	305.24	1,067.68	1,372.92			
Pipe		174.17	174.17			
Track		71.37	71.37			
Miscellaneous	248.70	1,612.07	1,860.77			
(4) Operating Equipment:						
Rental	100.00	725.00	825.00			
Purchase		198.90	198.90			
Depreciation	40.00	270.00	310.00			
(5) Initial Rehabilitation and Repairs		37.64	37.64			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	73.90	110.26	184.16			
Sampling and Analysis		4.00	4.00			
Payroll Taxes	5.58	30.17	35.75			
Liability Insurance	24.00	342.00	366.00			
Bookkeeping	41.00	300.00	341.00			
Hauling Equip	12.88		12.88			
(8) Contingencies (specify):						
TOTALS	$1,850.50	12,399.29	14,249.79	1850.50	12,399.29	14,249.79

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

Date 12-12-52 *Payee Smith & Rugg

Per Joseph M Smith Title Partner

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

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

(Instructions on reverse)

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

$ 1387.87

Signature Agnes K. Olson (Authorized Certifying Officer)

Date 12-30-52 Vou. No. 53-76

(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-278 in accordance with the terms of the contract.

Signature L. D. Bolmer, #138787 Title Mining Engineer Date Dec. 15, 1952

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

Signature W. H. King Title Executive Officer Date 12/22/52

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 M-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 12 1953

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1952 Docket No. DMEA 2296 Contract No. E-278
Operator's Name Smith & Rugg Minerals Tungsten
Address P. O. Box 354 - 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	feet	$375.65	12.5	$6,160.47	314.0	19.62	515	
Crosscutting	feet	880.84	32.5	2,619.15	110.0	23.81	125	
Raising	feet	540.35	12.5	1,476.18	53.5	27.59	50	
Shafts	feet			2,785.94	35.0	79.60	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Rehabilitation-Underground				917.85	512.5		750	
TOTAL DISTRIBUTED COSTS		1,796.84	57.5	13,959.59				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				198.90				$305.00
Initial Rehabilitation and Repairs		53.66		91.30				250.00
New Buildings, Improvements, etc								
TOTAL COSTS		1,850.50		14,249.79				$24,400.00

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 12-12-52 Operator Smith & Rugg

Per Joseph M Smith Title Partner

REMARKS: Operating costs for Nov. allocated on basis of labor cost for each operation during November, as follows:

	Labor	Percentage
Drifting	$202.60	20.3
Crosscutting	475.60	47.6
Raising	291.80	29.2
Repairing House & Head Frame	29.20	2.9
	$999.20	100.0%

→ 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

SMITH and RUGG
DMEA -2296
CONTRACT - Idm E-278

EXPENSE SUMMARY - November, 1952

PAYEE	Ck. No.	TOTAL AMOUNT	(2) LABOR & SUPERV. Labor	Superv.	(3) OPERATING SUPPLIES Description	Amt.	(4) OPERATING EQUIPMENT Desc.	Rental	Depr.	(7) MISCELLANEOUS Item	Amount
Payroll-per summary attached		$ 999.20	$655.20	$344.00							
Buda Sales & Service	117	9.94								Repairs	9.94
McFarland Eggus	118	9.65								Repairs	9.65
Industrial Eng. & Supply Co.	129	524.12			Misc. Explosives Explosives	118.88 517.91	Generator & Pump	100.00			
Buda Sales & Service	130	37.11								Repairs	37111
Larson Machine Shop	131	17.20								Repairs	17.20
Dick's Corner Service Station	132	31.05			Gas & Oil	31.05					
C & K Oil Company	134	98.77			Fuel Oil	98.77					
Wilkins & Schone	135	41.00								Bookkeeping	41.00
State Comp. Insurance Fund	136	24.00								W/Comp. Ins.	24.00
Hodgson Transfer Co.	137	12.88								Hauling	12.88
Depreciation of Operator's Equip. per contract		40.00					Compressor Jack Hammer Dump Truck	25.00 5.00 10.00			
Payroll Taxes Accrued October, 1952*		.90								Payroll Tax	.90
Payroll Taxes Accrued November, 1952		4.68								Payroll Tax	4.68
TOTALS.		$1,850.50	$655.20	$344.00		$553.94		$100.00	$40.00		$157.36

* Not included in October report.

SMITH and RUGG
DMEA - 2296
CONTRACT - Idm E-278

PAYROLL SUMMARY - November, 1952

	Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	HOURS		RATE		GROSS	S. S.	W.H.	NET
	1st																							
	2nd	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Reg.	OT	Reg.	OT	WAGES	Tax	Tax	PAID
Rugg, Charles R.	1st	8*		8	8		8	8	8		8	8	8	8	8	8*	80	16	$1.65	$2.475	$171.60			$171.60
[redacted]1-14-9903 Miner	2nd		8	8	8	8	8	8*		8	8	8	8	8	8*		80	16	1.65	2.475	171.60			171.60
Smith, Michael B. 523-40-7790 Hoistman	2nd													8	8		16		1.50		24.00	.36	$4.20	19.44
Jorgensen, Christian 522-01-4021	1st												8	8	8		24		1.50		36.00	.54	6.30	29.16
Miner	2nd		8														8		1.50		12.00	.18	2.10	9.72
Vaga, Gabriel C. 526-03-6634	1st												8	8	8		24		1.50		36.00	.54	5.10	30.36
Miner & Hoistman	2nd		8	8	8	8	8	8*		8	8	8	8	8	8*		80	16	1.50	2.25	156.00	2.34	20.50	133.16
Langley, John R. [redacted]22-28-9447 Hoistman	2nd			8	8	8	8										32		1.50		48.00	.72	6.80	40.48
Smith, Joseph M. 522-07-9589	1st	8*		8	8		8	8	8		8	8	8	8	8	8*	80	16	2.00	3.00	208.00			208.00
Supervisor	2nd		8					8		8	8	8	8	8	8*		56	8	2.00	3.00	136.00			136.00
													TOTALS.								$999.20	$4.68	$45.00	$949.52

* Overtime

Certified to be a true summary of
subject payroll for November, 1952

A.W. Schone

Rambler Mine
Contract Idm E-278
DMEA - 2296
November, 1952

NARRATIVE REPORT

1. 204-Crosscut - Driving resumed at 20 ft from center of 201 Drift and advanced to 52.5 feet where vein was cut showing about two inches of ferberite. Advance 32.5 feet.

2. 209-Drift - Drift started south-west along vein encountered in 204 crosscut and advanced to 7.5' from center of 204 crosscut. Ore pinched to small seam. Advance 5 feet.

3. 210-Drift - Drift started north-east along vein encountered in 204 crosscut and advanced to 10 feet from center of 204 crosscut. Vein getting wider and ferberite scattered through vein in several small streaks. Advance 7.5 feet.

4. 208-A-Raise - Raise started on small ore body encountered in 208 Drift, and advanced to 19.5 ft above track. Vein is wider in back of raise and shows considerable more ore. Ore body is raking sharply to north-east and if it continues will miss all workings on upper level. Advance 12.5 feet.
   Total advance- All places 57.5 feet.

5. Operating Crew - Three men working six days weekly most of month.

6. Delays & difficulties - One day was spent repairing head frame. One day and half spent reconditioning compressor and motor. One day and half spent removing old hoist and replacing with another. Progress this month slowed considerably on account of snow and extreme cold weather. Authorization for closing down for winter months has been requested. Work to be resumed on or before April 15, 1953.

7. Unusual Circumstances - None other than those indicated above.

SMITH & RUGG

Joseph M Smith
Joseph M. Smith

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

224 New Customhouse
Denver 2, Colorado

November 26, 1952

Case 12-1

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Amendment No. 3 to Contract Idm-E278, Docket DMEA 2296, Smith and Rugg (Tungsten)

Enclosed are the original and two copies of Amendment No. 3 to Contract Idm-E278. Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

Also enclosed are three copies of a letter from the operator requesting this amendment and three copies of a memorandum from a Geologist of the Geological Survey approving this amendment.

W. H. King

W. H. King

Enclosures

RECEIVED
DEC 30 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

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

200 New Customhouse
Denver 2, Colorado

November 7, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: Memorandum by Ogden Tweto on DMEA Docket 2296, Contract Idm-E278.

Attached are 8 copies of a progress report on the Lower Rambler tungsten mine, Boulder County, Colorado. Exploration, as originally planned, was not proving successful, and Tweto reexamined the mine and suggests modifications in the exploration program.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

November 7, 1952

Memorandum

To: DMEA Field Team, Region IV

From: Ogden Tweto, U. S. Geological Survey

Subject: Examination of Lower Rambler tungsten mine, Boulder County, Colorado; DMEA Docket 2296.

I visited the Lower Rambler mine on November 4, 1952, with R. L. Bolmer of the Bureau of Mines, and Joseph M. Smith, operator. The original plan of exploration provided for sinking the shaft 50 feet (it was already down 65 feet below the first and only level) and doing 640 feet of drifting and crosscutting on a new level at the bottom of the shaft. Sinking disclosed that the vein flattened and became weaker downward, so the shaft was sunk only about 35 feet, and the new level was run at a depth of about 185 feet, or about 95 feet below the first level. To date, the new level has been run 60 feet northeast of the shaft and 150 feet southwest; and 180 feet of drifting and crosscutting has been done in the footwall northeast of the shaft and in the hanging wall southwest of the shaft.

This work has revealed several small and apparently discontinuous veins, and many thin ferberite "feeders" or veinlets. Two small showings of ferberite are worth further exploration. One is on a vein in the footwall northeast of the shaft, where there is about an inch of ferberite for a length of a few feet. The other is in the main drift about 120 feet

southwest of the shaft, where the vein contains about an inch of ferberite for about 10 feet. It is recommended that exploratory raises be run up on these two occurrences; if the ferberite seems pinch, the raises are to be stopped.

Exploration to date suggests a group of echelon northeast-trending short veins. At their north ends, these turn northward and peter out, and at their south ends they turn southward and peter out. Other veins of the series should be expected in the footwall near the north ends and in the hanging wall near the south ends.

The vein in the main drift turns northward and dies out about 50 feet northeast of the shaft. The vein with the ferberite lens in the footwall south of this drift may be the next overlapping vein, but just east of the ferberite occurrence the drift turns eastward and follows a barren east-west vein that is apparently a cross-fracture between two northeast veins. At the turn, the northeast trend of the ferberite-bearing portion of the vein is continued by weak sheeting extending into the hanging wall. As this may mark the continuation of the northeast vein at a point where it is splayed-out by intersection with the east-west vein, it is recommended that a few slab rounds be put in here to see whether the vein picks up to the northeast. If it doesn't, the work should be abandoned after not more than 4 or 5 rounds.

Near the face of the main drift southwest of the shaft, the vein turns toward the south and weakens. A crosscut was run northwest into the hanging wall 15 or 20 feet at a point near the breast. At about 13 feet, this encountered a small and unpromising-looking vein on which a short drift was run. A hole put out further to the northwest with a drifter struck a

fracture of some kind with a heavy water flow at 20 feet. As the general objective in this southwestern area is to drift on the best available vein to its intersection with the Maine-Cross breccia reef, about 65 feet southwest of the present breast, it is recommended that the crosscut be extended along the drill hole to the fissure that is making the water. If this looks promising, then it may be followed southwest to the breccia reef. (The incentive here is the fact that the orebody of the Cross No. 2 mine, just southwest of the reef, cut off against the reef, and no work was done beyond the reef because the property line was very near this place). If the fissure cut by the drill hole appears unpromising, it is unlikely that further work to the southwest can be justified, as the reef is an objective only insofar as it can be reached by drifting on a vein of some promise.

To summarize, work at four places is recommended, all contingent on results obtained: the two raises, the wall of the drift near the small ore occurrence in the footwall northeast of the shaft, and the 20-foot crosscut and possible drift to the southwest at the southwest end of the level. If none of these projects pan out, the contract should be terminated.

November 11, 1952

Mr. W. H. King
Department of Interior
Defense Minerals Administration
224 Custom House
Denver 2, Colorado

Subject: DMEA - 2296
Contract - Adm E 278

Dear Sir:

We herewith request that subject contract to be amended to provide for two raises as follows:

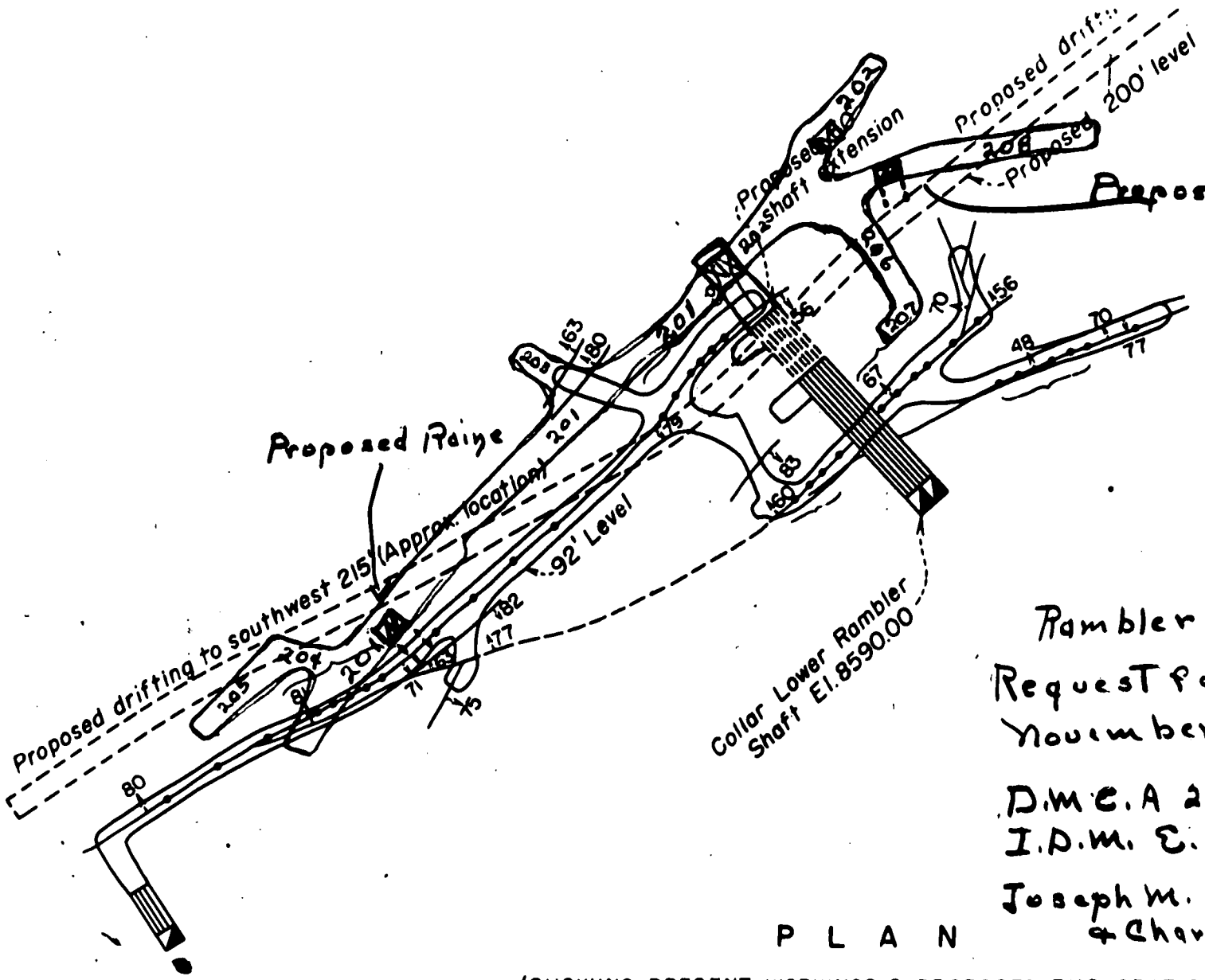
(1) Raise # 201-A beginning in #201 drift approximately 115 feet south west of shaft, on 200 foot level--height to be determined by conditions encountered and subject to approval of DMEA representative, but not to exceed 90 feet.

(2) Raise #208-A, beginning in #208 drift approximately 40 feet north east of shaft on 200 foot level, height to be determined by conditions encountered and subject to approval by DMEA representative, but not to exceed 90 feet.

After an inspection by Mr. Ogden Tweto and Mr. Balmer, advisability of these two raises on small showing of ore was generally agreed upon. Probable discontinuance of drifting north east will provide ample funds without increasing total cost of project.

Sincerely yours,

Smith & Rugg
By Joseph M Smith
P. O. Box 354
Nederland, Colorado



Rambler Mine
Request for raises
November 8, 1952

D.M.C. A 2296
I.D.M. C. 278

Joseph M. Smith
& Charles R. Rugg.

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

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

224 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952

December 8, 1952

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMRA Docket 2296, Contract Idm-N278 (Tungsten)
Joseph M. Smith and Charles R. Rugg, Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of October, 1952, pertaining to DMA Docket 2296, Contract Idm-N278, Joseph M. Smith and Charles R. Rugg.

W. H. King
W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

November 21, 1952

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten) Joseph M. Smith and Charles R. Rugg, Boulder County, Colorado - Operator's Monthly Progress Report for the period of October, 1952

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

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

W. H. King
John F. Shaw for
W. H. King

Enclosures

JWT:ec

cc: Contract
Secretary to the Operating Committee (2)
WMTraver
Chron.
AHKoschmann (2)

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 19, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for October 1952

Enclosed please find five copies of the above progress report--forms MF-104 and MF-104A, with proper documentation--and seven copies of R. L. Belmer's memorandum covering inspection of the underground progress and accounts.

Underground progress is reported correctly in the narrative and the accounting is in order.

Payment is approved of $906.56, or 75 percent of the total $1,208.75 claimed by the contractor, subject to Region IV audit.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/eb

cc 4
AHKoschmann
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
November 19, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for October 1952

Progress under the subject contract was inspected November 4, 1952, with Ogden Tweto, U. S. Geological Survey, and Messrs. Smith and Rugg. The progress as reported in Smith's narrative is correct and complete. The work performed this period conforms to the terms of the contract and has been shown correctly on form MF-104A.

The costs claimed and shown on form MF-104 this period are substantiated by the required documentation and are approved.

It is noted that the operators have attached a statement from the State Compensation Insurance Fund giving the premium rates for Workmen's Compensation and Occupational Disease Insurance. It is suggested that a copy of this statement be made for the project files.

Project costs this period are approved in the amount of $1,208.75. Payment of 75 percent of the approved amount, or $906.56, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/eb

cc 6
AHKoschmann
E278
DMEA Chron.

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 12 1952
12/18/52

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

Month of October 195 2 Docket No. DMEA 2296 Contract No. E-278
Operator's Name Smith & Bugg Minerals Tungsten
Address P. O. Box 354 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	feet	1,203.10	64	5,784.62	301.5	19.19	515	
Crosscutting	feet	200.65	12	1,722.31	77.5	22.43	125	
Raising	feet			935.83	41.0	22.83	50	
Shafts	feet			2,785.94	35.0	79.60	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				917.85				
TOTAL DISTRIBUTED COSTS		1,203.75	76	12,162.75	455.0		750	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				199.80				$305.00
Initial Rehabilitation and Repairs				37.64				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		1,203.75		12,399.29				$24,400.00

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 Oct. 12, 1952 Operator Smith & Bugg
Per Joseph M Smith Title Partner

REMARKS: Operating costs allocated on basis of labor costs for each operation during the current month, as follows:

	Labor	Percent
Drifting	$719.60	16.6
Crosscutting	143.40	83.4
	863.00	100.0%

→ 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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.
RECEIVED
DEC 12 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October 1952 Docket No. DMEA 2296 Contract No. E-278
Operator's Name Smith & Rugg Minerals Tungsten
Address P. O. Box 354 Nederland, Colo.
Contract Amount, $ 24,400.00 Government Participation: 75% Amount, $ 18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	423.00	4,136.70	4,559.70			
Supervision	440.00	2,600.00	2,040.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives		1,067.00	1,067.00			
Pipe		174.17	174.17			
Track		71.37	71.37			
Miscellaneous	135.75	1,473.32	1,612.07			
(4) Operating Equipment:						
Rental	100.00	625.00	725.00			
Purchase		100.00	100.00			
Depreciation	40.00	230.00	270.00			
(5) Initial Rehabilitation and Repairs		37.64	37.64			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		110.26	110.26			
Sampling and Analysis		4.00	4.00			
Payroll Taxes a/Comp		30.17	30.17			
Liability Insurance	17.00	325.00	342.00			
Bookkeeping	50.00	250.00	300.00			
(8) Contingencies (specify):						
TOTALS	1,208.75	11,190.54	12,399.29	1208.75	11,190.54	12,399.29

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

Date Oct. 12, 1952 *Payee Smith & Rugg

Per Joseph M Smith Title Partner

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

ad

→ 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:

$ 906.56

Signature [illegible]
(Authorized Certifying Officer)

Date 12/1/52 Voucher No. DMA 53-65

(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-278 in accordance with the terms of the contract.

Signature R. L. Bolmer $906.56 Title Mining Engineer Date Nov. 18, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. H. King Title Executive Officer Date 11/21/52

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

SMITH and RUGG
DMEA - 2296
CONTRACT - E-278

EXPENSE SUMMARY - October 1952

PAYEE	CK No	TOTAL AMOUNT	(2) LABOR & SUPERV. Labor	Superv.	(3) OPERATING SUPPLIES Description	Am't	(4) OPERATING EQUIPMENT Description	Rental	Depr.	(7) MISCELLANEOUS Item	Am't
Payroll - Per Summary		$863.00	$423.00	$440.00							
C&K Oil Company	112	133.90			Fuel Oil	$133.90					
Industrial Engineering & Supply Co.	113	100.00					Generator & Pump	100.00			
Standard Machine Works	114	4.85			Misc. Sup.	4.85					
Wilkins & Schone	115	50.00								Bookkeeping	50.00
State Comp. Insurance Fund	116	17.00								Insurance	17.00
Depreciation of Operators Equipment per contract		40.00					Compressor		25.00		
							Jack Hammer		5.00		
							Dump Truck		10.00		
TOTALS.....		$1,208.75	$423.00	$440.00		$138.75		$100.00	$40.00		$67.00

SMITH and RUGG
DMEA - 2296
CONTRACT - E 278

PAYROLL - October 1952

		1st Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL HOURS		RATES		GROSS	Soc.	W.H.	NET
		2nd Period	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Reg.	O.T.	Reg.	O.T.	WAGES	Sec.	Tax	PAID
Rugg, Charles R. 521-14-9903 Miner		1st	8	8	8	8*		8	8	8	8	8	8*		8	8	8		88	16	1.65	2.475	184.80			184.80
		2nd	8	8	8*			8	8	8	8	8		8	8	8	8	8	96	8	1.65	2.475	178.20			178.20
Smith, Michael B. 523-40-7790 Hoistman		1st				8							8						16		1.50		24.00	0.36	4.20	19.44
		2nd			8					8		8							24		1.50		36.00	0.54	7.30	28.16
Smith, Joseph M. 522-07-9589 Supervisor		1st	8	8	8	8*		8	8	8	8	8	8*		8	8	8		88	16	2.00	3.00	224.00			224.00
		2nd	8	8	8*			8	8	8	8	8		8	8	8	8	8	96	8	2.00	3.00	216.00			216.00
																			TOTALS.				$863.00	$0.90	$11.50	$850.60

* Overtime

Certified to be a true summary of
subject payroll for October, 1952

A W Schone

PREPARED
CHECKED
TYPE

SMITH and RUGG
CONTRACT IDM 278
DMEA 2296
October, 1952

NARRATIVE REPORT

1. #206 Cross-Cut: Advanced from 28.5 ft. to 40.5 ft. Advance during October 12 feet.

2. #207 Drift: Small quartz vein encountered in #206 Crosscut from which we drifted 7.5 ft from center of Crosscut—Advanced 5 feet and vein pinched off.

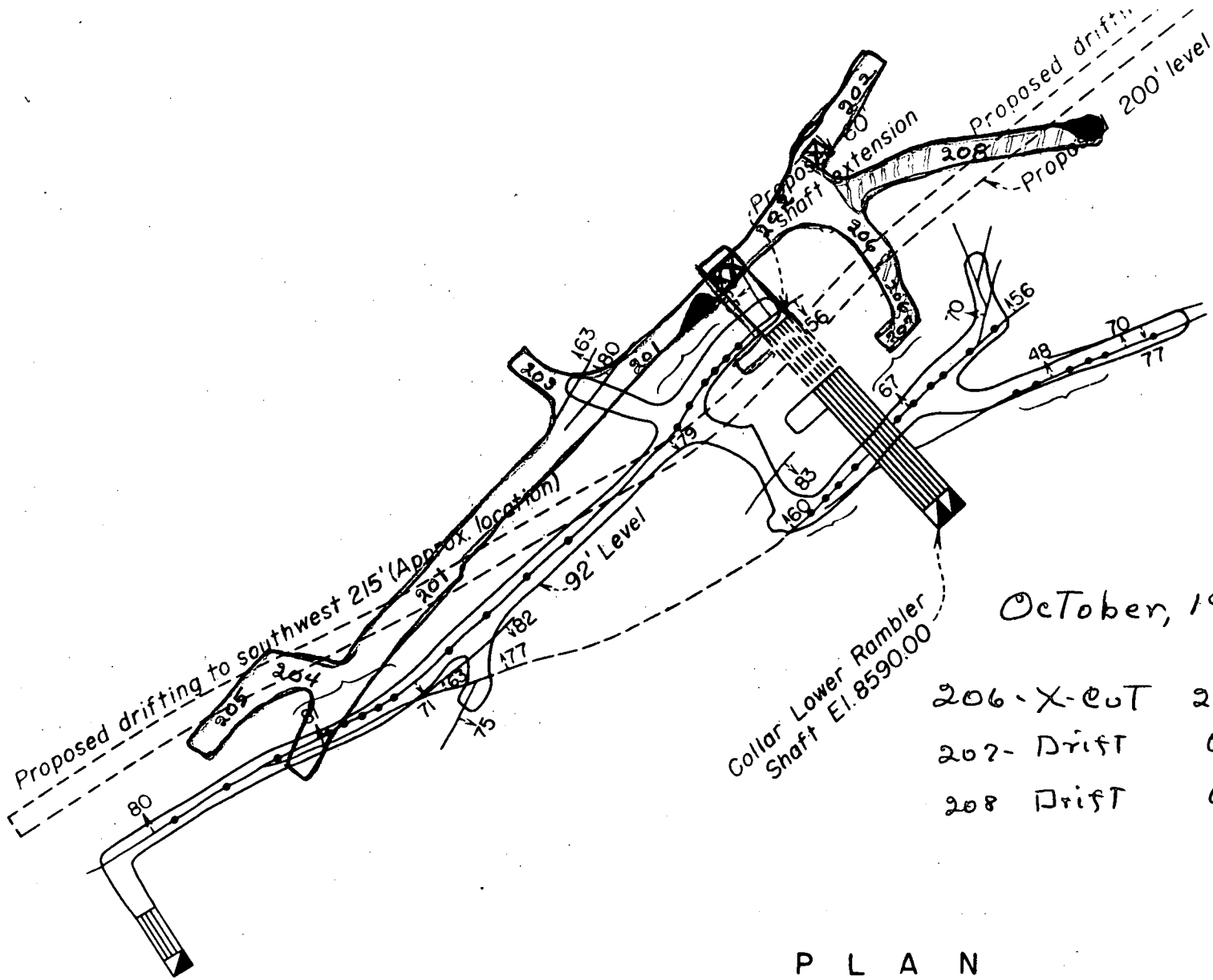
3. #208 Drift: Advanced 61.5 feet from center of #206 Crosscut. Two inches of good grade ferberite for a length of only about seven feet was drifted through. Fair vein still going ahead in breast. Work stopped here. Advanced 59 feet.

4. Operating Crew: Two partners working 6 days weekly. One extra man for five days.

5. Water: Extension of working has caused some increase in water. Approximately 16,000 gallons per 24 hours.

6. No unusual difficulties encountered.

Joseph M Smith
Joseph M. Smith



October, 1952

206 - X-cut 28.5 FT To 40.5 FT.
207 - Drift 0. FT. To 7.5 FT.
208 Drift 0. FT. To 61.5 FT.

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

Extracted from Monthly Report, Region IV, for October 1952

DMA-1651 - Boulder Tungsten Mines, Inc.

One week of work underground was done in September and the crosscut on the fourth level advanced 10 feet for a total of 162½ feet, plus 5 feet allowed for slabbing. No work is expected in October, but we have been advised that exploration was resumed about November 7. This delay has resulted from the fire of September 7 which destroyed the surface buildings.

DMEA-2086 - Vasco TungstenCorporation

Notification has been received that work started October 28. A report is not expected until the first of December.

DMEA-2296 - Rambler mine

The 206 crosscut was advanced 12 feet, from 28½ to 40½ feet. The 207 drift was advanced 5 feet on a small quartz vein which pinched out and the dirft was stopped. The 208 drift has been advanced a total of 61½ feet from the center line of the 206 crosscut, or 59 feet for the period. It cut 7 feet of good ferberite ore where a raise will be started.

DMEA-2304 - L. and P. Mining Company

The raise mentioned in the last report was advanced 40 feet, with a pilot hole carried ahead as a safety precaution. At the end of the period ore was showing, with a width of from 4" to 1', in the southwest end of the raise.

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

New Customhouse
Denver 2, Colorado

November 5, 1952

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278 (Tungsten)
Smith and Rugg, Rambler Mine, Boulder county, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of September, 1952, pertaining to DMEA Docket 2296, Contract Idm-E278, Smith and Rugg.

W. H. King
W. H. King

Enclosures

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

New Customhouse
Denver 2, Colorado

October 30, 1952

Memorandum

To: T. A. Christensen

From: Executive Officer, Field Team, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278, (Tungsten) Smith and Rugg, Rambler Mine, Boulder County, Colorado - Operator's Monthly Progress Report for the period of September, 1952

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

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

W. H. King
W. H. King

Enclosures

WLD:oc

cc: Secretary to the Operating Committee (2)
Contract
WMTraver
Chron.
AMKoschmann (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
October 23, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for September 1952

Please find enclosed five copies of the above progress report--forms MF-104 (revised) and MF-104A, with proper documentation--and seven copies of R. L. Bolmer's memorandum covering inspection of underground progress and accounts.

Progress underground is correct and the accounts are in order.

Payment of $1,212.66, or 75 percent of the total $1,616.88 claimed by the contractor, is approved.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc 4
AHKoschmann
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

xxxxxxxxxxxx
WESTERN REGION

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
October 23, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg (Rambler mine), Boulder County, Colorado - Progress report for September 1952

Progress under the subject contract was inspected this date with Messrs. Smith and Rugg. The progress as reported in Smith's narrative is correct and complete.

The work performed this period, for which claim is made, is in conformance with the contract and is as reported on form MF-104A.

The supply and service charges claimed this period on form MF-104 are considered necessary and do not appear excessive. All charges are supported by the proper documentation.

Project costs for September 1952 are approved in the amount of $1,616.88. Payment of 75 percent of the approved amount, or $1,212.66, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/ash

cc 6
AEKoschmann
E278
DMEA Chron.

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

Budget Bureau No. 22-R1036.3.
Approval expires 6-30-53.

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

11/13/52

Month of September 195 2 Docket No. DMEA 2296 Contract No. E-278

Operator's Name Joseph M. Smith and Charles R. Rugg Minerals Tungsten

Address P.O. Box 354 Nederland, Colorado

Contract Amount, $ 24,400.00 Government Participation: 75% Amount, $ 18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	432.60	3,704.10	4,136.70			
Supervision	448.00	1,952.00	2,400.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives	278.82	788.86	1,067.68			
Pipe		174.17	174.17			
Track		71.37	71.37			
Miscellaneous	179.48	1,293.84	1,473.32			
(4) Operating Equipment:						
Rental	100.00	525.00	625.00			
Purchase		198.90	198.90			
Depreciation	40.00	190.00	230.00			
(5) Initial Rehabilitation and Repairs		37.64	37.64			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	53.08	57.18	110.26			
Sampling and Analysis	4.00		4.00			
Payroll Taxes	13.90	16.27*	30.17			
Liability W/Comp	17.00	308.00	325.00			
Bookkeeping	50.00	200.00	250.00			
(8) Contingencies (specify):						
TOTALS	1,616.88	9,573.66	11,190.54	1616.88	9,573.66	11,190.54

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

Date Oct. 6, 1952 *Payee Smith & Rugg

Per Joseph M. Smith Title Partner

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

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

(Instructions on reverse)

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

$1212.66

Signature [illegible] (Authorized Certifying Officer)

Date 11/3/52 Vou. No. 53-57

(See other side)

* Payroll taxes for 2nd Quarter paid and included in claim for June, but inadvertently omitted from accumulated totals on August 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-278 in accordance with the terms of the contract.

Signature R. R. Bolmer, #1,212.66 Title Mining Engineer Date October 22, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 83-38476

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1952 Docket No. DMEA 2296 Contract No. E-278
Operator's Name Joseph M. Smith and Charles R. Rugg Minerals Tungsten
Address P. O. Box 354 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	feet	$ 509.33	24.5	$4,776.72	237.5	$20.11	515	
Crosscutting	feet	1,109.55	44.5	1,537.66	65.5	23.47	125	
Raising	feet			935.83	41.0	22.83	50	
Shafts	feet			2,785.94	35.0	79.60	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				917.85				
TOTAL DISTRIBUTED COSTS		1,616.88	69.0	10,954.00	379.0		750	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				198.90				305.00
Initial Rehabilitation and Repairs				37.64				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		1,616.88		11,190.54				24,400.00

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 Oct. 6, 1952 Operator Smith and Rugg

Per Joseph M. Smith Title Partner

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

REMARKS: Operating costs allocated on basis of labor costs for each operation during the current month, as follows

	Labor	Percent
Drifting	$277.40	31.5
Crosscutting	603.20	68.5
Total	$880.60	100.0%

(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

ITH and RUGG
CONTRACT - E-278
DMEA - 2296

NARRATIVE REPORT for September, 1952

1. Crosscut #204--Advanced to 20 feet from center of #201 drift. Vein encountered and drift started on same, showing water and quartz. No ore to-date. Net advance this month 18 feet.

2. Drift #205--Advanced 26.5 feet south west from center of #204 crosscut. Poor showing of quartz in breast so discontinued driving this drift temporarily while #206 crosscut is being driven. Net advance this month 24.5 feet.

3. Crosscut #206--At 20 feet north east of shaft, a crosscut was started in foot wall and we advanced to 28.5 feet from center of #202 drift. Granite pegmatite formation showing and no veins encountered as yet. Net advance this month 26.5 feet.

4. Total net advance this month in #204, #205 and #206--69 feet. = 2.65' day.

5. Drift #201--Necessary to install 6 sets of drift timbers and lag back one side.

6. Operating crew--Total of three men, operators and one man on Saturdays.

7. Unusual difficulties--Only difficulties encountered is lack of help making it necessary for operators to alternate, one on surface one underground. Satisfactory progress is being made, however. It is expected satisfactory help will be more readily available with winter closing of construction projects.

8. Water--Approximately 15,000 gals water daily.

Smith & Rugg
By Joseph M. Smith

SMITH and RUGG
DMEA - 2296
CONTRACT - E-278

EXPENSE SUMMARY - September 1952

PAYEE	Ck. No	TOTAL AMOUNT	(2) LABOR & SUPERV. Labor	Superv.	(3) OPERATING SUPPLIES Description	Am't	(4) OPERATING EQUIPMENT Description	Rental	Depr.	(7) MISCELLANEOUS Item	Am't
Hendrie & Bolthoff	90	35.83			Small Tools	35.83					
& K Oil Co.	97	70.06			Fuel Oil	70.06					
State Compensation Insurance Fund	99	17.00								Comp. Ins.	17.00
Hill and Jude	100	4.00								Assaying	4.00
Industrial Engineering & Supply Co.	101	408.30			Explosives Misc. Sup.	278.82 29.48	Generator & Pump	100.00			
Valentine Hardware Co.	102	69.46			Misc. Sup.	16.38				Repairs	53.08
Wilkins & Schone	103	50.00								Bookkeeping	50.00
Dick's Corner Service	104	27.73			Misc. Sup.	27.73					
Collector of Internal Revenue Employer's Social Security Tax for 3rd Quarter	105	13.90								Soc.Sec. Tax	13.90
Payroll - Per Summary		880.60	432.60	448.00							
Depreciation of Operator's Equipment per contract		40.00					Compressor Jack hammer Dump Truck		25.00 5.00 10.00		
TOTALS.		$1,616.88	432.60	448.00		458.30		100.00	40.00		137.98

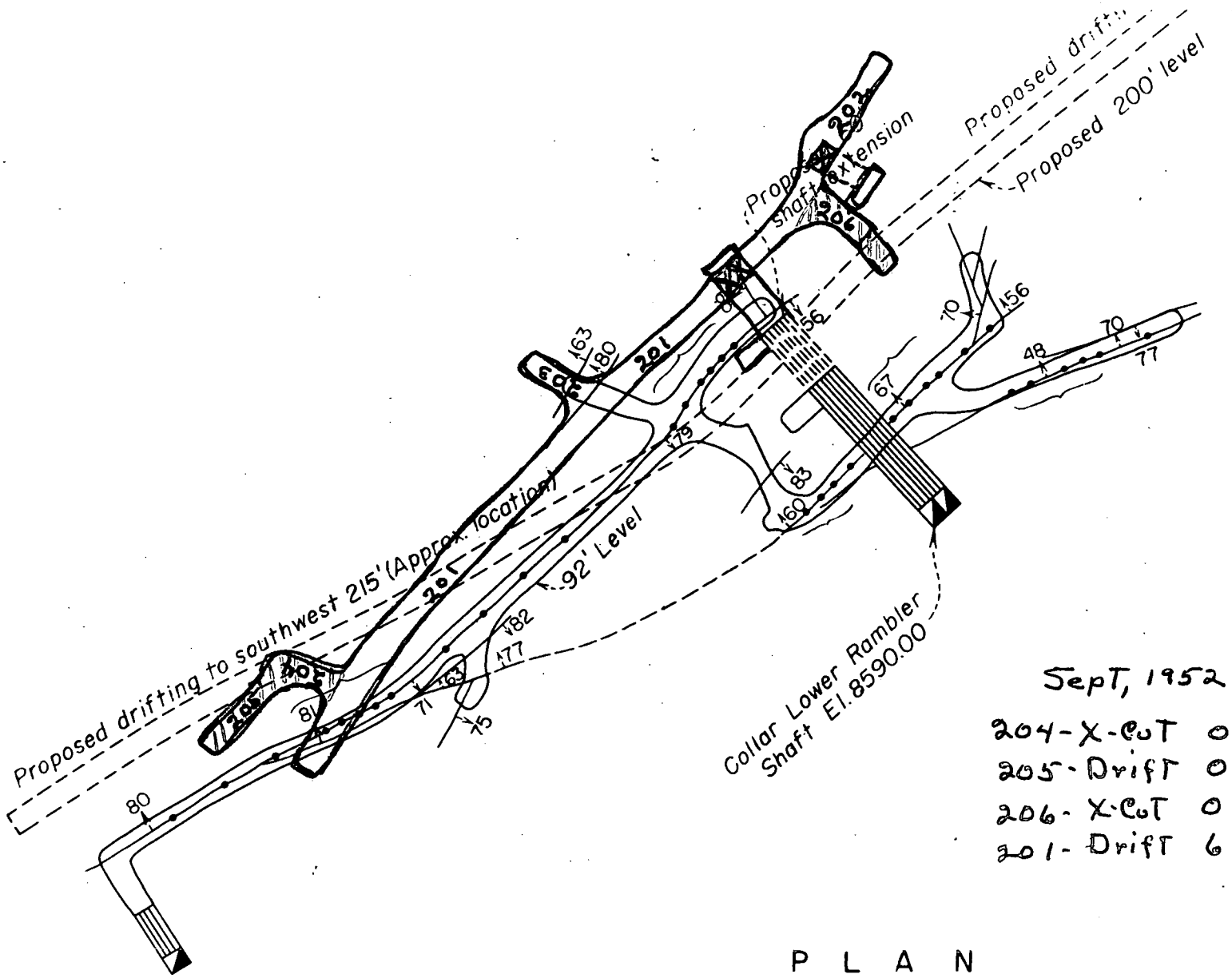
SMITH and RUGG
DMEA - 2296
CONTRACT - E-278

PAYROLL - September 1952

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL HOURS		RATES		GROSS	Soc.	W.H.	NET
	1st Period (dates) / 2nd Period	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Reg.	O.T.	Reg.	O.T.	WAGES	Sec.	Tax	PAID
Rugg, Charles R. 521-14-9903 Miner	1st	8	8	8	8	8	8*		8	8	8	8	8	8*		8	88	16	1.65	2.475	$184.80			184.80
	2nd	8	8	8	8	8*		8	8	8	8	8	8*		8	8	88	16	1.65	2.475	184.80			184.80
Smith, Michael B. 523-40-7790 Hoistman	1st	4					8							8			20		1.50		30.00	.45	5.25	24.30
	2nd					8							8			6	22		1.50		33.00	.50	5.77	26.73
Smith, Joseph M. 522-07-9589 Supervisor	1st	8	8	8	8	8	8*		8	8	8	8	8	8*		8	88	16	2.00	3.00	224.00			224.00
	2nd	8	8	8	8	8*		8	8	8	8	8	8*		8	8	88	16	2.00	3.00	224.00			224.00
																	TOTALS.				$880.60	$ .95	$ 11.02	$868.63

* Overtime

Certified to be a true summary of
subject payroll for September 1952
A.W. Schone



Sept, 1952

204 - X-Cut 0' To 18'
205 - Drift 0' To 265'
206 - X-Cut 0' To 285'
201 - Drift 6 sets Timber

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

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

224 New Customhouse
Denver 2, Colorado

400

October 3, 1952

August

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278, (Tungsten) Smith and Rugg, Rambler Mine, Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of August, 1952, pertaining to DMEA Docket 2296, Contract Idm-E278, Smith and Rugg.

W. H. King

W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 8 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

September 26, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMEA Docket 2296, Contract Idm-2278 (Tungsten), Smith and Rugg, Rambler Mine, Boulder County, Colorado - Operator's Monthly Progress Report, for the period August 1952

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

Work accomplished is in accordance with the contract and payment is recommended for the amount of $994.09, which is 75 percent of the total of $1,325.45.

It is noted that the operator has deleted the amount of $16.27 from the totals previously reported column. The amount originally reported in June was carried forward in July as payroll taxes, item (7). This amount represented the operator's FICA for the June payroll.

W. H. KING

W. H. King

Enclosures

WHD:fwo

cc: Sec. Oper. Comm. (2)
WMTraver, Jr.
Contract
Koschmann (2)
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado

September 22, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg, Rambler mine, Boulder County, Colorado - Progress report for August 1952

Please find enclosed five copies of the above progress report, forms MF-104 (revised) and MF-104A, with payroll, narrative, cost summary distribution, and one certified copy only of invoices, and seven copies of R. L. Bolmer's memorandum covering inspection of underground progress and accounts.

Payment of $994.09, or 75 percent of the total $1,325.45 claimed by the contractor, is approved.

W. M. Traver, Jr.

W. M. Traver, Jr.

Enclosures

WMT/bam

cc 4
AHKoschmann
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado

September 22, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278 (Tungsten), Smith and Rugg, Rambler mine, Boulder County, Colorado - Progress report for August 1952

Progress under the subject contract was inspected September 16, 1952, with Messrs. Smith and Rugg. The progress as reported in Smith's narrative is correct and complete.

The work performed this period, for which claim is made, is in conformance with the contract and is as reported on form MF-104.

The supply and service charges claimed on form MF-104 are considered necessary and do not appear excessive. All charges are supported by the proper documentation.

Project costs for August 1952 are approved in the amount of $1,325.45. Payment of 75 percent of the approved amount, or $994.09, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/bam

cc 6
AHKoschmann
E273
DMEA Chron.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

10/10/52

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 1952 Docket No. DMEA _____ Contract No. B 278
Operator's Name Joseph U. Smith & Charles R. Rugg Minerals Tungsten
Address P. O. Box 354 - Nederland, Colorado
Contract Amount, $ 24,400.00 Government Participation: 75 % Amount, $ 18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	622.20	3,082.90	3,704.10			
Supervision	400.00	1,552.00	1,952.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives		700.86	700.86			
Pipe		174.17	174.17			
Track		71.37	71.37			
Miscellaneous	58.25	1,235.59	1,293.84			
(4) Operating Equipment:						
Rental	100.00	425.00	525.00			
Purchase		198.90	198.90			
Depreciation	40.00	150.00	190.00			
(5) Initial Rehabilitation and Repairs		37.64	37.64			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		57.18	57.18			
Sampling and Analysis						
Payroll Taxes w/Comp	55.00	253.00	308.00			
Liability Insurance						
Bookkeeping	50.00	150.00	200.00			
(8) Contingencies (specify):						
TOTALS	1,325.45	8,231.94	9,557.39	1,325.45	8,231.94	9,557.39
					* 16.27	16.27
				1,325.45	8,248.21	9,573.66

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

Date Sept. 11, 52 *Payee Smith & Rugg

Per Joseph U. Smith Title Partner

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

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

(Instructions on reverse)

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

$994.09

Signature _____
(Authorized Certifying Officer)

Date 10/1/52 Vou. No. DMA 53-42
(See other side)

*Payroll taxes erroneously not carried forward by operator.

(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-278 in accordance with the terms of the contract.

Signature R. L. Bolmer #994.09 Title Mining Engineer Date Sept. 19, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE #994.89

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1952 Docket No. DMEA 2296 Contract No. E 279

Operator's Name Joseph M. Smith & Charles R. Rugg Minerals Tungsten

Address P. O. Box 354 - 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	feet	$1,325.45	68	$4,867.39*	23	$20.03	515	
Crosscutting	feet			430.11	21	20.48	125	
Raising	feet			935.03	41	22.83	50	
Shafts	feet			2,705.94*	35	79.00	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Underground Rehabilitation				917.65*				
TOTAL DISTRIBUTED COSTS		1,325.45	68	9,337.12	310		750	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				198.90				305.00
Initial Rehabilitation and Repairs				37.04				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		1,325.45		9,573.66				24,000.00

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

Date Sept. 11, 1952 Operator Smith & Rugg

Per Joseph M. Smith Title Partner

REMARKS: * Underground rehabilitation costs ($917.65) which were shown in unit costs for drifting and shafts last month, have been eliminated therefrom and shown as a separate item herein per instructions of Mr. Palmer.

→ 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

SMITH and RUGG (Rambler Mine)
CONTRACT I.D.M. E-278
DMEA 2296

NARRATIVE REPORT - AUGUST, 1952

1. DRIFT SOUTH WEST

Advanced 68 feet, making a total of 153 feet from shaft. Small quartz streak showing some ferberite encountered on foot wall side of drift and ore continued in drift for about 15 feet. Vein turning to left and weakening ahead. Operators believe main Rambler vein is a short distance in hanging wall at present breast. Should test drill hole prove this to be true, a short cross cut will be started near this point. Granite and Pegmatite.

2. No other headings advanced during month.

3. OPERATING CREW

Total of three men all during month of August. Six days weekly.

4. WATER

Approximately 15,000 gallons water pumped daily by one pump operating about 3½ hours per day.

5. No unusual difficulties encountered.

Joseph M Smith
Smith & Rugg
By Joseph M. Smith

Smith & Rugg
DMEA - 2296
CONTRACT - E278

EXPENSE SUMMARY - AUGUST 1952

VENDOR	CK. No.	TOTAL AMOUNT	(2) LABOR & SUPV. Labor	Supv.	(3) OPERATING SUPPLIES Description	Misc.	(4) OPERATING EQUIPMENT Description	Rental	Depr.	(7) MISCELLANEOUS Description	Amount
Payroll- Per Summary attached		1,022.20	622.20	400.00							
State Compensation Insurance July	76	31.00								Work Comp(July)	31.00
Wilkins & Schone	84	50.00								Bookkeeping	50.[illegible]
State Compensation Ins. August	85	24.00								Work Comp(Aug)	24.00
Jim Pearce Drill Shop	86	39.72			Misc. Supplies	39.72					
Industrial Engineering & Supply Co.	87	3.61			Credit for Misc. Supplies	96.39	Generator	100.00			
C & K Oil Company	88	99.23			Fuel	99.23					
Standard Machine Works	89	15.69			Misc. Supplies	15.69					
Depreciation of Owner's Equipment per contract		40.00					Compressor		25.00		
							Jack Hammer		5.00		
							Dump Truck		10.00		
TOTALS- - - - - - - - - - - -		$1,325.45	622.20	400.00		58.25		100.00	40.00		105.00

SMITH & RUGG
DMEA - 2296
CONTRACT - E278

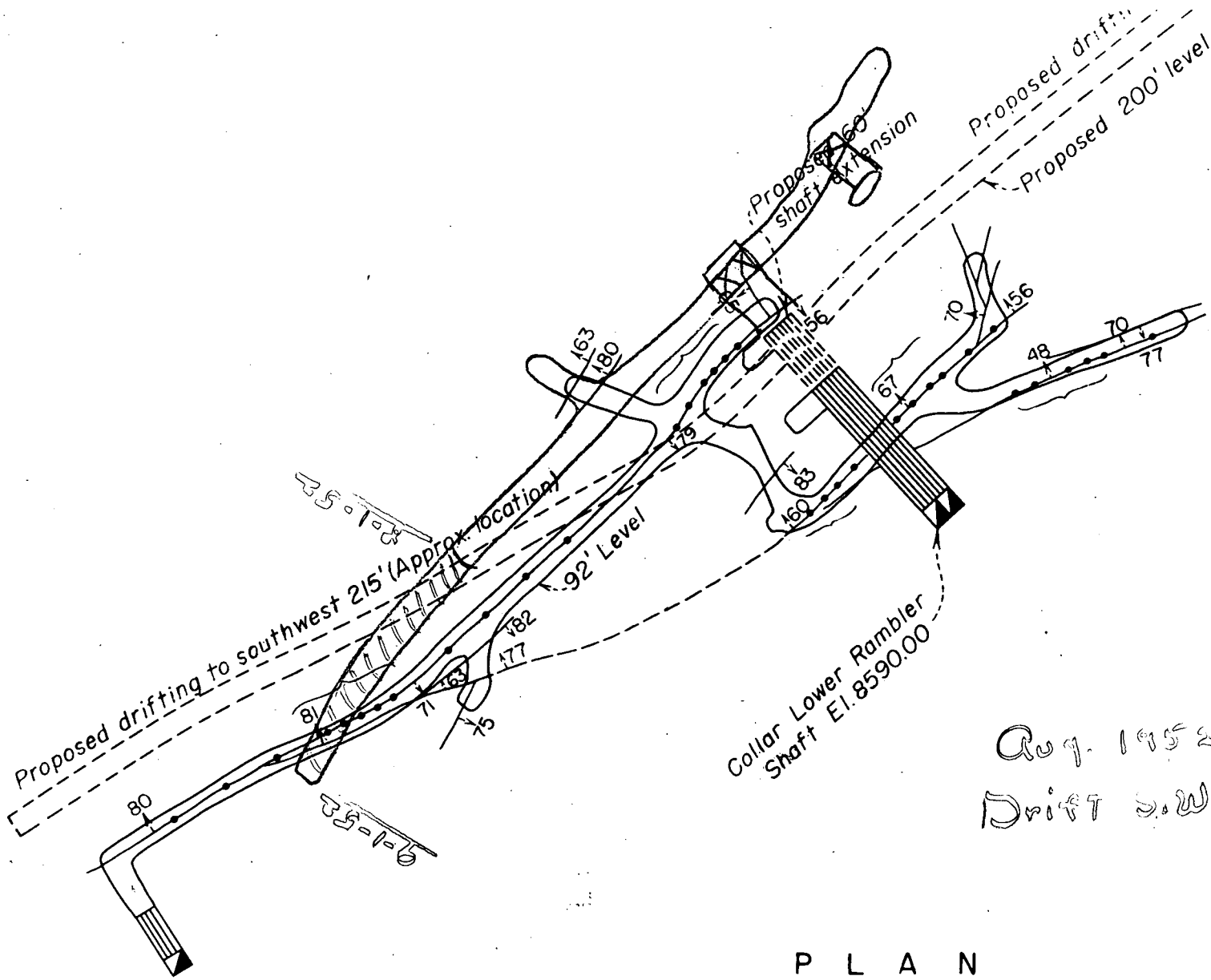
PAYROLL - AUGUST 1952

	1st period (dates) 2nd period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL HOURS Reg.	TOTAL HOURS O.T.	RATES Reg.	RATES O.T.	GROSS WAGES	SOC.SEC. TAX	W.H. TAX	NET PAID
Rugg, Charles R. 521-14-9903 Miner	1st	8	8*		8	8	8	8	8	8*		8	8	8	8	8																	88	16	$1.65	$2.475	$ 184.80			$184.80
	2nd	8*		8		8	8	8	8		8	8	8																				64	8	1.65	2.475	125.40			125.40
Smith, Michael B. 523-40-7790 Hoistman	1st	8	8*		8	8	8	8	8	8*		8	8	8	8	8																	88	16	1.50	2.25	168.00	2.52	28.40	137.08
	2nd	8*		8				8	8		8	8	8	8	8	8*																	64	16	1.50	2.25	132.00	1.98	21.20	108.82
Rugg, Merle 523-09-8181 Mucker	1st	8																															8		1.50		12.00	.18	2.10	9.72
	2nd																																							
Smith, Joseph M. 522-07-9589 Supervisor	1st	8	8*		8	8	8	8	8	8*		8	8	8	8	8																	88	16	2.00	3.00	224.00			224.00
	2nd	8*		8				8	8		8	8	8	8	8	8*																	64	16	2.00	3.00	176.00			176.00
TOTALS																																					$1,022.20	$4.68	$51.70	$965.82

* Overtime

Certified to be a true summary of
subject payroll for August 1952

C W Schoon



Aug. 1952
Drift S.W. 85' To 155'

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 11 1952

224 New Customhouse
Denver 2, Colorado

August 7, 1952

Memorandum

To: C.O. Mittendorf, Acting Administrator, Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Amendment No. 2 to Contract No. Idm-E278, Docket No. DMEA 2296, Joseph M. Smith and Charles R. Rugg (Tungsten)

Enclosed are the original and two copies of Amendment No. 2 to Contract No. Idm-E278. Copies of this amendment have been given to the operator, Fiscal Officer, Region IV, and a copy has been retained for our file.

Also enclosed are three copies of a letter from the operator requesting this amendment and three copies of a report by R. L. Bolmer, Bureau Engineer, recommending this amendment.

W. H. King

W. H. King

Enclosures

RECEIVED
AUG 14 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 30, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296 (Tungsten), Contract Idm-E278, Smith and Rugg (Rambler mine), Boulder County, Colorado - Amendment to contract

Please find enclosed the original and five copies of R. L. Bolmer's memorandum recommending the above amendment allowing a 50-foot raise on the project.

I concur with his recommendations.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc 5
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado

July 29, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Belmer

Subject: DMEA 2296 (Tungsten), Contract Idm-E278, Smith and Rugg (Rambler mine), Boulder County, Colorado - Amendment to contract

The contractor under the subject contract has requested, by letter dated July 8, 1952, an amendment which will provide for a raise, not to exceed 50 feet in length, approximately 35 feet northeast of the shaft on the newly established 200-foot level of the Rambler mine. The footage requested for raising may be deducted from the footage allowed for drifting northeast of the shaft with no increase in the estimated total cost of the project.

The vein, upon which the shaft was deepened and upon which drifting was to be performed, flattened and weakened with depth. It became progressively weaker and finally disappeared as drifting progressed away from the shaft on the 200-foot level. The site selected for a raise contains a mineralized cross fracture. Raising at this point is considered advisable, partly to trace the

mineralization but also to determine the geologic structure upon which a continuation of the exploration will be based.

An amendment permitting the raise at the location and for the distance requested is recommended. The contractor has been given verbal permission to begin this work; therefore, the amendment should be made retroactive to the date of the letter of application.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/bam

cc: 5
E278
DMEA Chron.

P.O.Box 354
Nederland, Colorado
July 8, 1952

Mr. W. H. King
U.S. Dept. of Interior
Defense Minerals Administration
224 New Customhouse
Denver 2, Colorado

Dear Mr. King:

Referring to Contract Docket No. DMEA-2296, Idm 5-278 - between The United States of America and a partnership, consisting of Joseph M. Smith and Charles H. Rugg.

We request that the subject contract be amended to provide for a raise not to exceed 50 feet, approximately 35 feet northeast of shaft on newly established 200 foot level Lower Rambler Mine.

We feel this raise is advisable due to broken condition of formation encountered in drifting and the need for geological information to guide further development.

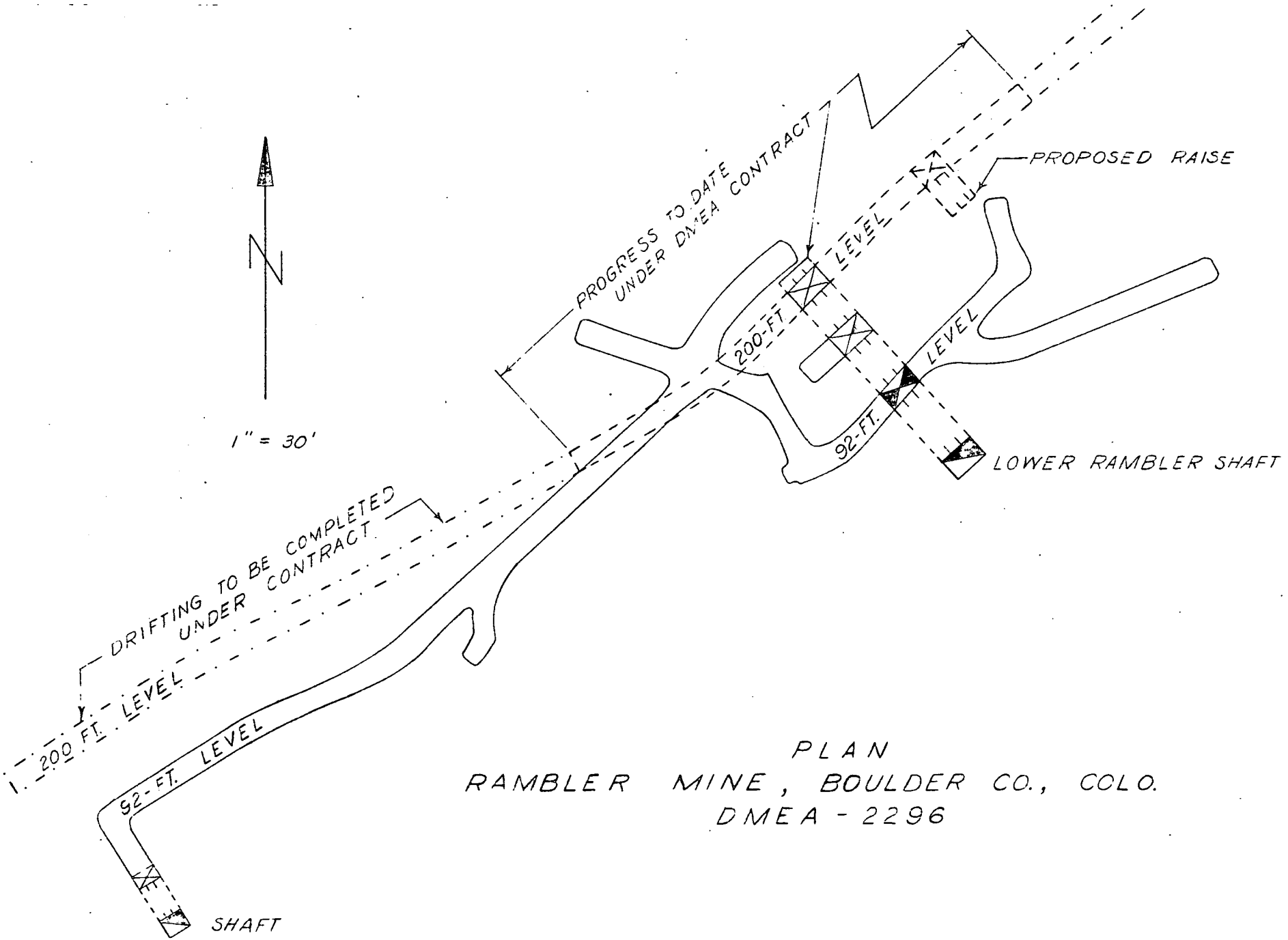
The footage requested for raising may be deducted from footage allowed for drifting northeast of shaft with no increase in estimated total cost of project.

Yours very truly,

SMITH and RUGG

By Joseph M Smith

JMS/rs
6 cc



PLAN
RAMBLER MINE, BOULDER CO., COLO.
DMEA - 2296

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

224 New Customhouse
Denver 2, Colorado

September 16, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278 (Tungsten), Joseph M. Smith and Charles R. Rugg, a partnership, Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the period of July, 1952, pertaining to DMEA Docket 2296, Contract Idm-E278, Joseph M. Smith and Charles R. Rugg, a partnership.

W. H. King
W. H. King

Enclosures

Mining Division
Region IV

August 26, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten), Joseph M. Smith and Charles E. Rugg, a partnership, Boulder County, Colorado - Operator's Monthly Progress Report for the period of July 1952

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 accomplished is in accordance with the contract and payment is recommended for the amount of $1,772.41, which is 75 percent of the total of $2,363.22.

Remarks:-- $13.91 of the amount of $362.88 reported under item "(3) Miscellaneous" should have been reported under item "(7) Repairs to Equipment".

Reference Form MF-104A, Underground rehabilitation will be deleted from other operational work and properly recorded on the next report.

for John F. Shaw
W. H. King

Enclosures

JWT:jp
cc Secretary to the Operating Committee (2)
WMTraver
Subject
Chron
AHKoschmann (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
August 18, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296 (Tungsten), Contract Idm-R278, Smith and Rugg, Rambler mine, Boulder County, Colorado - Progress report for July 1952

Please find enclosed five copies of the above progress report, forms MF-104 (revised) and MF-104A, with payroll, narrative, cost summary distribution, and one certified copy only of invoices, and seven copies of R. L. Bolmer's memorandum report covering inspection of the underground progress and accounts.

Despite instructions from this office and yours to Smith that we considered an amendment unnecessary for prospect drilling, he reports it as such in his narrative. However, no attempt has been made to segregate the operation in the cost accounting and we are assuming it will be considered as a reasonable cost of crosscutting by all concerned.

Payment of $1,772.41, or 75 percent of the total $2,363.22 claimed by the contractor, is approved.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/emh

cc 4
AEKoschmann
R278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

9/23/52

Region IV

Room 137, Building 20
Denver Federal Center
Denver 14, Colorado
August 18, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2296 (Tungsten), Contract Idm-2278, Smith and Rugg, Rambler mine, Boulder County, Colorado - Progress report for July 1952

Progress under the subject contract was inspected August 13, 1952, with Messrs. Smith and Rugg. The progress as reported in Smith's narrative is correct and complete. As stated in the narrative, the southwest drift is being continued. On the date of the inspection, this drift had been advanced an additional 30 feet. At 88 feet from the shaft, it cut a narrow quartz vein, striking S. 50° W., and dipping 85° northwest. This vein widened and began showing ferberite as it was opened to the southwest. At 115 feet from the shaft it had widened to a 5-inch quartz vein containing from 1/4 to 1 inch of ferberite. The wall rock at this location is a soft granite and pegmatite.

The work performed this period, for which claim is made, is in conformance with the contract and is as reported on form MF-104A. It is noted that the raise was measured from the track level. More correctly, this should have been measured from the back of the drift and reported as 34 feet rather than 41 feet. Crosscutting reported should also be reduced by 3 feet under similar reasoning that the heading started from the side of the drift instead of from the center line. The operator's accountant apparently misinterpreted instructions regarding distribution of $917.85 for underground rehabilitation. Last month, he incorrectly listed this amount under Item 7, form MF-104, but correctly distributed it on form MF-104A. This month, the amount is distributed correctly on form MF-104 but has been incorrectly included with drifting and sinking on form MF-104A. I will endeavor to contact the accountant and explain this distribution to him so the next report will be correct.

The supply and service charges claimed on form MF-104 are considered necessary and do not appear excessive. All charges on form MF-104 are supported by the proper documentation except the June payment for Workmen's Compensation. I am accepting the explanation given on this claim of $66.00 and approve its payment. It will adjust itself on next month's report.

Project costs this period are approved in the amount of $2,363.22. Payment of 75 percent of this amount, or $1,772.41, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/ash

cc 6
AHKoschmann
E278
DMRA Chron.

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

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

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

SEP 22 1952

Month of July, 1952 Docket No. DMEA 2896 Contract No. R 278
Operator's Name Joseph M. Smith & Charles R. Ruegg Minerals Tungsten
Address P.O.B. 354 - Nederland, Colorado
Contract Amount, $ 24,400.00 Government Participation: 75% Amount, $ 18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	915.00	2,166.90	3,081.90			
Supervision	404.00	1,148.00	1,552.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber		56.33	56.33			
Explosives	425.34	363.52	788.86			
Pipe		174.17	174.17			
Track		71.37	71.37			
Miscellaneous	362.88	872.71	1,235.59			
(4) Operating Equipment:						
Rental	100.00	325.00	425.00			
Purchase		198.90	198.90			
Depreciation	40.00	110.00	150.00			
(5) Initial Rehabilitation and Repairs		37.64	37.64			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		57.10	57.10			
Sampling and Analysis						
Payroll Taxes		16.27	16.27			
~~xxxxx~~ Liability Insurance /Comp.	66.00	187.00	253.00			
Bookkeeping	50.00	100.00	150.00			
(8) Contingencies (specify):						
TOTALS	2,363.22	5,884.99	8,248.21	2,363.22	5,884.99	8,248.21

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

Date 8/12/52 Payee SMITH & RUEGG

Per Joseph M. Smith Title Partner

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

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

(Instructions on reverse)

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

$1772.41

Signature [illegible]
(Authorized Certifying Officer)

Date 9/16/52 Vou. No. DMM 53-32
(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-278 in accordance with the terms of the contract.

Signature R. P. Bolmer, $1772.41 $1772.41 Title Mining Engineer Date August 14, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Department of the Interior
Defense Minerals Administration
RECEIVED
SEP 22 1952

Month of July 1952 Docket No. DMEA 2296 Contract No. 2 27[illegible]
Operator's Name Joseph M. Smith and Charles M. Rugg Minerals Tungsten
Address P.O.B. 354 - 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	foot	597.28	43	3,319.10	145	22.09	515	22.[illegible]
Crosscutting	foot	430.11	21	430.11	21	20.48	125	23.90
Raising	foot	935.03	41.34	935.03	41	22.02	50	27.52
Shafts	foot			3,326.55	35	95.04	60	77.[illegible]
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		2,363.22	105	8,011.67	242		750	TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased				190.90				305.00
Initial Rehabilitation and Repairs				37.04				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		2,363.22		8,239.71				24,100.00

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 8/12/52 Operator SMITH & RUGG

Per Joseph M Smith Title Partner

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

(Instructions on reverse)

(For Government use only)

REMARKS: Current costs allocated on basis of labor and supervision for each operation as follows:

	Labor	%
Drifting	596.10	42.2
Crosscutting	214.00	18.2
Raising	522.00	39.6
Shafts		
	1,312.01	100.0

Rehabilitation and repairing of shaft in the amount of 917.45 per prior report has been pro-rated to drifting and sinking shaft in costs-to-date column.

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

SMITH & RUGG
DMFA - 2296
CONTRACT - E 278

EXPENSE SUMMARY - July, 1952

VENDOR	Ck. No.	TOTAL AMOUNT	(2) LABOR & SUPERVISION Labor	Supv.	(3) OPERATING SUPPLIES Explo.	Misc.	(4) OPERATING EQUIPMENT Description	Rental	Depr.	(7) MISCELLANEOUS Ins.	Bkpg.
Payroll - Per Summary Attached		1,319.00	915.00	404.00							
State Compensation Insurance - May	57	41.00								41.00	
State Compensation Insurance - June	60	25.00								25.00	
Dick's Corner Service Station	62	4.16				4.16					
" " " "	62	4.25				4.25					
" " " "	62	2.85				2.85					
" " " "	62	3.05				3.05					
" " " "	62	2.50				2.50					
" " " "	62	3.00				3.00					
Industrial Engineering & Supply Co.	63	96.39				96.39					
" " "	63	426.58			425.34	1.24					
" " "	63	100.00					Generator	100.00			
Jim Pearce Drill Steel Shop	70	86.24				86.24					
Valentine Hardware Company	71	1.99				1.99					
Wilkins & Schone	72	50.00									50.00
C & K Oil Company	74	60.32				60.32					
" " " "	74	93.80				93.80					
Hodgson Transfer Co.	75	1.24				1.24					
" " "	75	1.85				1.85					
Depreciation of owner's equipment per contract		40.00					Compressor		25.00		
							Jackhammer		5.00		
							Dump Truck		10.00		
		2,363.22	915.00	404.00	425.34	362.88		100.00	40.00	66.00	50.00

SMITH and RUGG
DMEA - 2296
CONTRACT - E278

PAYROLL - July, 1952

	1st Period (dates) / 2nd Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL HOURS Reg.	TOTAL HOURS O.T.	RATES Reg.	RATES O.T.	GROSS WAGES	Sec.Sec. Tax	W.H. Tax	NET PAID
Rugg, Charles R. 521-14-9903 Miner	1st	8	8	8		8		8	8	8	8		8*		8	8																	88	8	1.65	2.475	$165.00			165.00
	2nd	8	8	8	8*		8	8	8	8	8	8*		8	8	8	8																96	16	1.65	2.475	198.00			198.00
Smith, Michael B. 523-40-7790 Hoistman	1st	8	8	8		8		8	8	8	8	8	8*		8	8																	88	8	1.50	2.25	150.00	2.25	24.40	123.35
	2nd	8	8	8	8*		8	8	8	8	8	8*		8	8	8	8																96	16	1.50	2.25	180.00	2.70	30.80	146.50
Gonzales, Anthony 522-07-9692 Mucker	1st	8	8	8		8		8	8	8	8	8	8*		8	8																	88	8	1.50	2.25	150.00	2.25	7.80	139.95
	2nd	8																															8		1.50		12.00	.18	.82	11.00
Rugg, Merle	1st											8		8	8	8	8																40		1.50		60.00	.90	10.50	48.60
Mucker	2nd																																							
Smith, Joseph M. 522-07-9589 Supervisor	1st	8	8	8		8		8	8		8	8	8		8	8																	88		2.00		176.00			176.00
	2nd	8	8	8	8*		4	8	8	8	8	8*		8	8	8	8																96	12	2.00	3.00	228.00			228.00
	TOTALS																																				$1,319.00	8.28	74.32	$1,236.40

Certified to be a true transcript of subject payroll for July, 1952

* Overtime or part overtime

Aw Adhow CPA

SMITH & RUGG
DMEA - 2296
CONTRACT - E 278
July - 1952

NARRATIVE REPORT

1. DRIFT SOUTHWEST
Advanced 23 feet making a total of 85 feet from shaft, very poor showing of vein material at this point but will encounter junction with vein in foot wall at about 100 feet from shaft. Granite with some pegmatite. Will continue driving this drift.

2. DRIFT NORTHEAST
Advanced 20 feet making a total of 60 feet from shaft. Vein broken up. Altered granite with iron seams. Work stopped here for present.

3. RAISE
Raise started 36 feet northeast of shaft and advanced 41 feet above track. Small streak of good ferberite showing in upper 12 feet of southwest end of raise. No ore showing in back so work stopped for present. Altered granite.

4. CROSS CUT
Started at a point 43 feet southwest from end of shaft and advanced 21 feet from center of track in southwest drift. Small vein showing at about 15 feet. Tight granite formation. Work stopped here.

5. PROSPECT DRILLING
Six holes averaging 30 feet each drilled horizontally in both walls at various points shown on sketch. No ferberite recognized in drill cuttings. Very favorable altered granite all the way in hole #1. Hole making water.

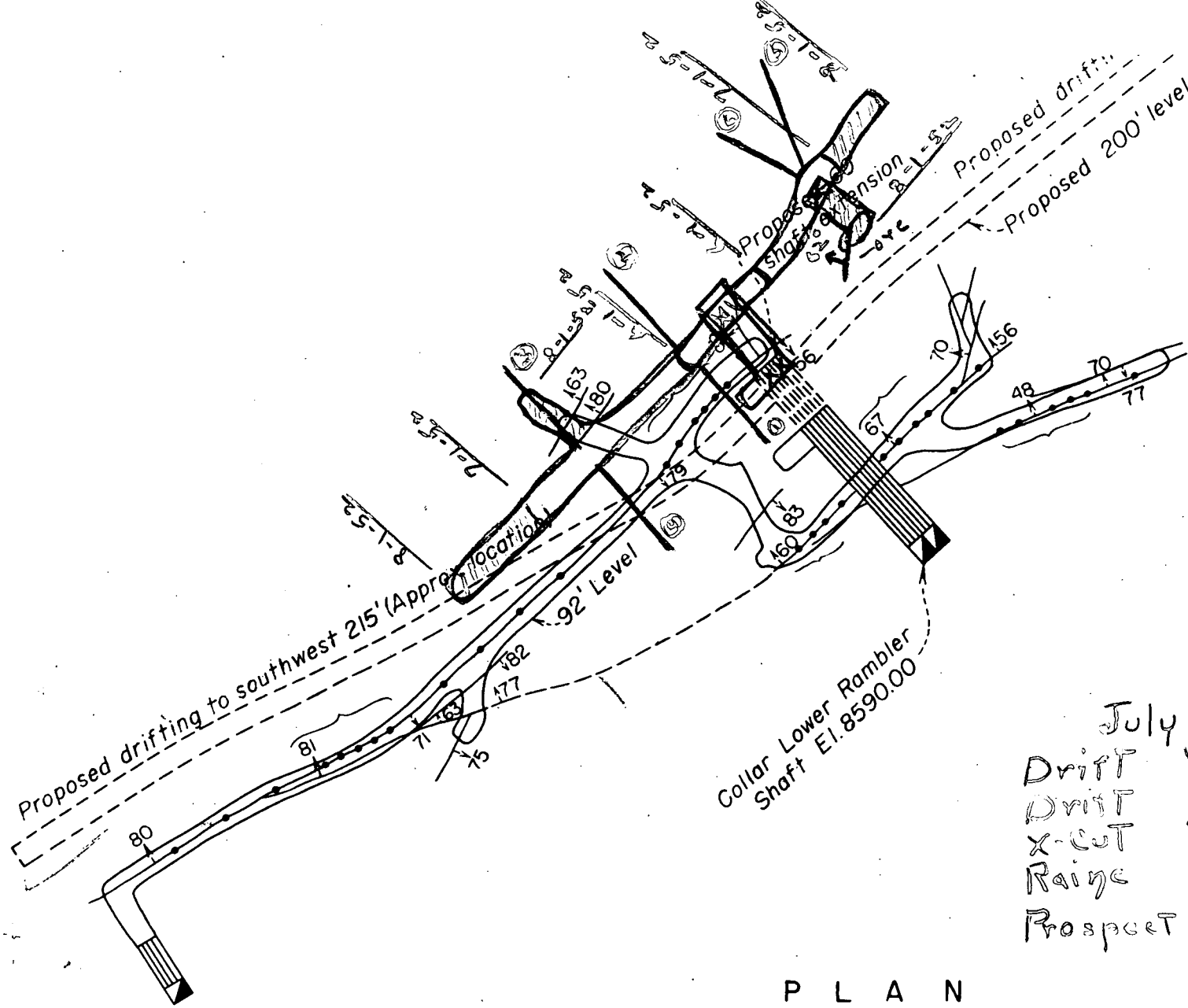
6. OPERATING CREW
Total of four (4) men employed most of the time during month. Operating six days weekly.

7. WATER
Approximately 18,000 gallons water pumped each 24 hours by one pump operating about 4½ hours daily.

8. No unusual difficulties encountered.

SMITH & RUGG

By Joseph M Smith



July, 1952

Drift	N.E.	40' To 60'
Drift	S.W	62' To 85'
X-Cut	N.W	0' To 21'
Raise		0' To 41'

Prospect Drill Holes 175'

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

Excerpt from Monthly Report, Region IV, June 21, 1952 to July 20, 1952

DMEA 2296 - Rambler mine (Tungsten), Boulder County, Colorado

The 200-foot level was advanced 28 feet northeast for a total of 40 feet from the shaft. Drifting was on a quartz vein showing only small seams of ferberite. A drift southwest on the same level was advanced 50 feet to 62 feet from the shaft. All work here was on a vein in granite with no mineral showing.

The U. S. Geological Survey has been requested to make an examination and determine if the project should be continued and recommend exploration if it is found to merit more work.

Lower Rambler shaft - in granite and pegmatite

Rambler vein is a fissure vein dipping 57-70° NW and running Northeasterly and Southwesterly.

possibility of other veins intersecting Rambler vein

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

224 New Customhouse
Denver 2, Colorado

August 13, 1952

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg, Rambler Mine, Boulder County, Colorado-Operator's Monthly Progress Report for the period June, 1952.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the month of June, 1952, pertaining to DMEA Docket 2296, Contract Idm-E278, Smith and Rugg, Rambler Mine, Boulder County, Colorado.

W. H. King

W. H. King

Enclosures

18

224 New Customhouse
Denver 2, Colorado

July 28, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278 (Tungsten), Smith and Rugg, Rambler Mine, Boulder County, Colorado - Operator's Monthly Progress Report for the period of June 1952

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

Work accomplished is in accordance with the contract and payment is recommended for the amount of $1,597.72, which is 75 percent of the total of $2,130.30.

As noted by the examining engineer, the amount of $917.85 erroneously entered on Form MF-104 will be corrected on the next Monthly Report.

Actually, carbide should not be included after "explosives".

W. H. King

W. H. King

Enclosures

WLD:jp
Subj
Secretary to the Operating Committee (2)
WMTraver
AHKoschmann (2)
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 23, 1952

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296 (Tungsten), Contract Idm-E278, Smith and Rugg, Rambler mine, Boulder County, Colorado - Progress report for June 1952

Please find enclosed five copies of the above progress report for June 1952, on the new form MF-104 (revised) and MF-104A, and seven copies of R. L. Bolmer's memorandum report covering inspection of the underground progress and accounts.

Notation is made of an erroneous entry on the MF-104 forms of $917.85 carried forward from previous reports. It hardly seems necessary to have returned these forms to the contractor for correction. He has, however, been notified and will prepare the July report correctly.

Payment of $1,597.72, or 75 percent of the amount $2,130.30 claimed by the contractor, is approved.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc 4
AHKoschmann
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
July 21, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2296 (Tungsten), Contract Idm-E278, Smith and Rugg, Rambler mine, Boulder County, Colorado - Progress report for June 1952

Progress under the subject contract was inspected July 14, 1952, with Messrs. Smith and Rugg. Progress as reported in Smith's narrative is correct and complete.

The vein structure, on which the shaft was deepened and upon which both the southwest and northeast drifts were begun, flattens and weakens with depth. Little, if any, of this structure now can be observed in the breast of either drift. If drifting in either direction is to be continued, a stronger vein must be uncovered. The operators were instructed to crosscut a short distance into both the foot and hanging walls of the southwest drift in an attempt to pick up a more favorable structure on which to continue drifting. The Geological Survey has been asked to examine the work completed under the contract and to recommend the action to be taken if crosscutting fails to disclose a stronger vein.

In his narrative, Smith mentions a small showing of ferberite 30 feet northeast of the shaft. His request for a contract amendment to permit raising a short distance on this showing has been recommended.

The work performed this period, for which claim is made, is in conformance with the contract and is as reported on Form MF-104A. To date, the contractors have performed the prescribed work efficiently and in a manner generally considered as good mining practice.

The supply and service charges claimed in Form MF-104 are considered necessary and do not appear excessive. All charges on Form MF-104 are supported by certified copies of the project payroll or vendor's invoices.

It is noted on Form MF-104 that $917.85 previously reported has been distributed on this new form under Item 8, Contingencies, and designated, "Unwater and Rehabilitate Shaft". This is in error. This amount properly should have been distributed under the applicable items 2 to 7. As this does not effect the amount claimed in June, the operators are being instructed to correctly redistribute the amount on their July claim.

Project costs incurred during this period are approved in the amount of $2,130.30. Payment of 75 percent of this amount, or $1,597.72, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/bam

cc: 6
AHKeschmann
E278
DMEA Chron.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

OPERATOR'S MONTHLY REPORT AND VOUCHER

AUG 18 1952 8/21/52

Month of June, 1952 Docket No. DMEA 2296 Contract No. B - 278
Operator's Name Joseph M. Smith and Charles R. Rugg Minerals Tungsten
Address P.O. Box 354 - Nederland, Colorado
Contract Amount, $ 24,400.00 Government Participation: 75 % Amount, $18,300.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	692.40	966.90	1,659.30			
Supervision	432.00	572.00	1,004.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber	56.33		56.33			
Explosives	6.12	357.40	363.52			
Pipe	34.04	140.13	174.17			
Track	68.06	3.31	71.37			
Miscellaneous	388.19	218.27	606.46			
(4) Operating Equipment:						
Rental Jackhammer log	100.00	225.00	325.00			
Purchase	198.90		198.90			
Depreciation	40.00	70.00	110.00			
(5) Initial Rehabilitation and Repairs	31.60	6.04	37.64			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	16.39	40.79	57.18			
Sampling and Analysis						
Payroll Taxes	16.27		16.27			
Liability Insurance		187.00	187.00			
Bookkeeping	50.00	50.00	100.00			
(8) Contingencies (specify): Unwater & rehabilitate shaft		917.85	917.85			
TOTALS	$ 2130.30	$ 3754.69	$ 5884.99	2,130.30	3,754.69	5,884.99

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

Date 7-16-52 *Payee SMITH - RUGG

Per Joseph M. Smith Title Partner

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

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

(Instructions on reverse)

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

$1597.72

Signature [illegible]
(Authorized Certifying Officer)

Date 8/8/52 Vou. No. DMM-53-19

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E278 in accordance with the terms of the contract.

Signature Robert L. Bolmer $1597.72 Title Mining Engineer Date July 18, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE $1597.72

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

AUG 18 1952

Month of June 1952 Docket No. DMEA 2296 Contract No. E - 278
Operator's Name Joseph M. Smith & Charles R. Rugg Minerals Tungsten
Address P.O. Box 354 - 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	feet	$1699.82	73	$ 1,944.66	102	$19.06	515	
Crosscutting	feet						125	
Raising								
Shafts	feet	200.98		2,785.94	35	79.59	60	
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Unwater & Rehabilitate shaft				917.85				
TOTAL DISTRIBUTED COSTS		$1899.80		$ 5,648.45				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		198.90		198.90				305.00
Initial Rehabilitation and Repairs		31.60		37.64				250.00
New Buildings, Improvements, etc.								
TOTAL COSTS		$2130.30		$5,884.99				$21,400.00

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 7-16-52 Operator SMITH & RUGG

Per Joseph M. Smith Title Partner

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

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.

U. S. GOVERNMENT PRINTING OFFICE 205676

SMITH & RUGG
DMEA - 2296
CONTRACT E278

EXPENSE SUMMARY

June, 1952

INVO. DATE	VENDOR	TOTAL AMOUNT	(2) LABOR & SUPERV. Labor	Superv.	(3) OPERATING SUPPLIES Timber	Expl.	Pipe	Track	Misc.	(4) OPERATING EQUIPMENT Descript.	Rental	Purch.	Depr.	(5) INITIAL REHABIL.	(7) MISCELLANEOUS Reprs.	Taxes	Bkkpg.
6-30	Payroll Summary Attached	1124.40	692.40	432.00													
6-30	Howard Knoll	95.00					30.00	65.00									
6-19	Caribou Timber, Inc.	56.33			56.33												
6-30	Wilkins & Schone	50.00															50.00
6-30	Valentine Hardware Co.	31.83					4.04		27.79								
6-24	Boise-Payette Lumber Co.	31.60												31.60			
6-30	Industrial Engineering Supply	100.00								Pump	25.00						
										Generator	75.00						
6-9	Industrial Engineering Sup.	244.80				6.12		3.06	235.62								
6-28	Boulder Tire & Battery	16.39													16.39		
6-23	Union Supply Company	26.01							26.01								
6-30	Union Supply Company	198.90								Jackhammer leg		198.90					
6-2	C & K Oil Company	98.77							98.77								
	Depreciation of owner's Equipment per contract	40.00								Compressor			25.00				
										Jackhammer			5.00				
										Dump truck			10.00				
6-30	Payroll taxes for April, May and June per payroll summaries submitted - Employer's portion	16.27														16.27	
	TOTALS	$2130.30	692.40	432.00	56.33	6.12	34.04	68.06	388.19		100.00	198.90	40.00	31.60	16.39	16.27	50.00

SMITH and RUGG
DMEA - 2296
CONTRACT E-278

PAYROLL - JUNE, 1952

	1st Period: (Dates) 2nd Period:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL HOURS Reg.	TOTAL HOURS O.T.	RATES Reg.	RATES O.T.	GROSS WAGES	SOC. SEC. TAX	W.H.T. TAX	NET PAID
Rugg, Charles R. 521-14-9903	1st		8	8	8	8	8	8*		8	8	8	8	8	8*																	80	16	$1.65	$2.475	$ 171.60			$ 171.60
Miner	2nd	8	8	8	8	8	8*		8	8	8	8	8	8*		8																88	16	1.65	2.475	184.80			184.80
Smith, Micheal B. 523-40-7790	1st		8	8	8	8	8	8*		8	8	8	8	8	8*																	80	16	1.50	2.25	156.00	$ 2.34	$26.00	127.66
Hoistman	2nd	8	8	8	8	8	8*		8	8	8	8	8	8*		8																88	16	1.50	2.25	168.00	2.52	28.40	137.08
Gonsales, Anthony 522-07-9692	1st																																						
Mucker	2nd															8																8		1.50		12.00	.18	.82	11.00
Smith, Joseph M. 522-07-9589	1st		8	8	8	8	8	8*		8	8	8	8	8	8*																	80	16	2.00	3.00	208.00			208.00
Supervisor	2nd	8	8	8	8	8	8*		8	8	8	8	8	8*		8																88	16	2.00	3.00	224.00			224.00
	TOTALS																															512	96			$1,124.40	$ 5.04	$55.22	$1,064.14

* Overtime

Certified to be a true copy of SMITH and RUGG payroll for June, 1952

By A.W. Schone Accountant

SMITH and RUGG
CONTRACT Idm - E-278
DMEA - 2296
JUNE, 1952

NARRATIVE REPORT

1. SHAFT STATION
Timbering of station and sump completed.

2. DRIFT SOUTH-WEST
Advanced 50 feet making a total of 62 feet from shaft. No ore encountered as yet and only small gouge streak showing. Granite formation.

3. DRIFT NORTH-EAST
Advanced 28 feet making a total of 40 feet from shaft. Quartz with small seams of ferberite encountered at from 30 feet to 40 feet from shaft. Ore not worth saving. Vein making water. Iron streak bearing N 20 degrees W crosses vein where ore is showing.

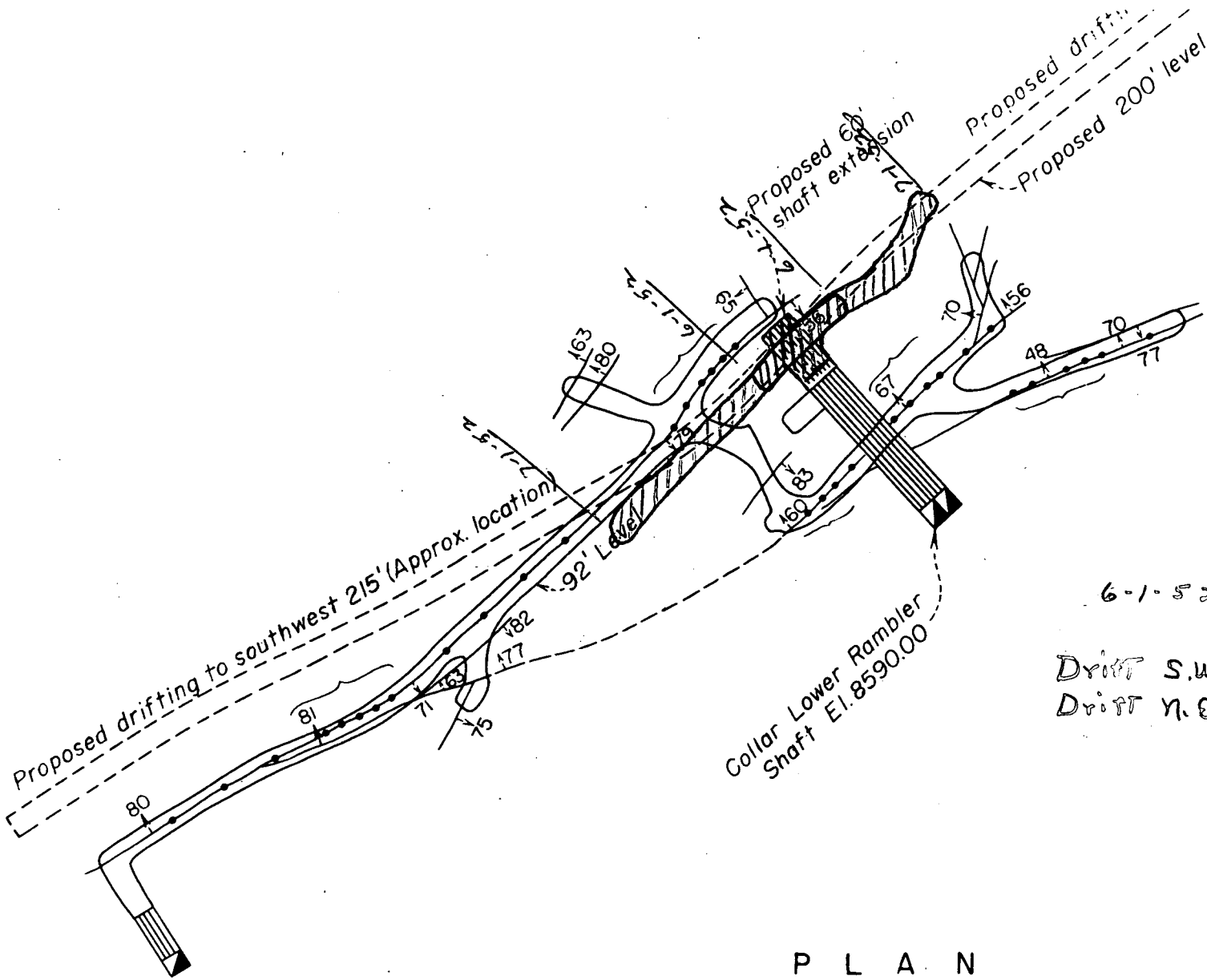
4. OPERATING CREW
Total crew comprises one hoistman and two men underground.
One additional man employed as mucker for one day.
Operating six days weekly.

5. WATER
Water flow has decreased to approximately 1[illegible],000 gallons per 24 hours and being removed with one pump on station at bottom.

6. No unusual difficulties encountered. Only delays were a few missed holes in wet drifts.

SMITH and RUGG

By Joseph M Smith



6-1-52-To 7-1-52

Drift S.W. 12' To 62'
Drift N.E. 12' To 40'

P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

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

224 New Customhouse
Denver 2, Colorado

June 13, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2296, (Tungsten) Rambler Mine, Smith and Rugg, Boulder County, Colorado

Enclosed are four copies of the final Report on DMEA Docket 2296.

The contract has been signed and is in effect.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enc.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 1 3 1952

E. A. [illegible] copy

Mining Division
Region IV

February 29, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: DMEA Request 2296, Rambler Mine (Tungsten) Boulder County, Colorado, Joseph M. Smith and Charles R. Rugg, applicants

Enclosed are the original and seven copies of the engineering report on the application of Joseph M. Smith and Charles R. Rugg.

The project consists of rehabilitating the surface buildings, unwatering and rehabilitating the lower Rambler shaft, sinking the shaft 50 feet, drifting 515 feet, and crosscutting 125 feet from the bottom of the shaft.

The estimated cost of the project is $24,410.00.

We agree with the examining engineer that the application be approved.

W. H. King
W. H. King

[illegible]
[illegible]

[illegible] 12, 1952

Reviewed by
DMEA OPERATING COMMITTEE
6-23-52
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

February 8, 1952

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2296, Hambler Mine (Tungsten), Boulder County, Colorado, Joseph M. Smith and Charles Rugg, Applicants

Attached are 8 copies of the geologic report by Ogden Tweto covering subject docket.

The applicant proposes to sink the lower Hambler shaft 60 feet to explore several tungsten veins in granite, pegmatite, and aplite. The geologic conditions are considered favorable for discovery of ore shoots of good grade and Tweto therefore recommends approval of the loan.

The applicant has proposed 95 feet of crosscutting but Tweto believes this may not be enough and recommends 125 feet. Tweto also recommends that only 300 feet of drifting to the northeast to a point beneath the Upper Hambler mine be done.

I concur with these recommendations.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (5)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
February 7, 1952

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMSA 2296, Rambler Mine (tungsten), Boulder County, Colorado

Please find enclosed the original and seven copies of the "Summary, Conclusions, and Recommendations", by Ogden Tweto and R. L. Palmer, and the original and seven copies of R. L. Palmer's engineering report on the subject deposit.

The applicants originally submitted a request for $26,370.00 to sink the shaft 50 feet and do 880 feet of drifting and crosscutting on a new 200-foot level. The consulting geologist revised the exploration proposal to 50 feet of sinking and 640 feet of drifting and crosscutting, including unwatering and minor surface installations. Palmer estimates the project will cost $24,410.00.

Palmer concludes that the proposed exploration has reasonable assurance of disclosing additional tungsten reserves and a loan of $24,410.00 is justified. Joseph M. Smith, one of the applicants, is a competent and experienced tungsten miner and is familiar with the Rambler mine from previous operations.

I concur with Palmer's conclusions and the field examiners' recommendation that the loan be approved.

The brochure furnished by the Region IV Field Team with their instructions to proceed with the field examination is returned herewith.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 2296, Rambler Mine

Boulder County, Colorado

Tungsten

Ogden Tweto, Geologist
U. S. Geological Survey

R. L. Bolmer, Mining Engineer
Bureau of Mines

February 5, 1952

RAMBLER MINE
BOULDER COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By Ogden Tweto
Geologist
U. S. Geological Survey

and

R. L. Bolmer
Mining Engineer
Bureau of Mines

RAMBLER MINE
BOULDER COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Ogden Tweto and R. L. Bolmer

The Rambler mine, in the southwestern corner of the Boulder tungsten district, is in reality two mines, the Upper and Lower Rambler, about 550 feet apart, and numerous trenches and shallow shafts in the intervening area. The workings are on a branching vein system in schist, aplite, pegmatite, and granite. The Upper Rambler and surface workings southwest of it were highly productive to depths of 25 to 50 feet, where the veins entered soft schist, flattened, and pinched. These workings have not been operated for many years and are all badly caved. The Lower Rambler mine comprises a shaft 154 feet deep and one level at 92 feet. Most of these workings were driven in 1944 to reach ferberite veins exposed by four drill holes and a trench completed by the Bureau of Mines the year before. No substantial body of ore was found, but ferberite was found in thin seams on several veins and, at places, in innumerable "feeders" or "faces" on the joints of the wallrocks. An output of possibly a few hundred units WO_3 has been made from several small stopes between the 92-foot level and the surface, and a substantial output has come from the same veins in the nearby Cross No. 2 and Missing Link mines.

The applicants have submitted a project estimated to cost $26,370.00 (Government participation 75 percent, or $19,777.50) to sink the shaft 50 feet and do 880 feet of

drifting and crosscutting on the new 200-foot level. Work at greater depth is justified by the numerous showings of ferberite on and above the 92-foot level, the presence of several veins, and the fact that the veins are in hard rocks such as aplite, pegmatite, and granite, as contrasted to the schist of the Upper Rambler area, and by the fact that the 62 feet of the shaft below the 92-foot level is reliably reported to have "paid for itself". The applicants planned to drift 215 feet southwest to the claim end line, do 95 feet of crosscutting to explore other veins, and drift 575 feet northeast on the main Rambler vein to a point beneath the Upper Rambler mine. The drift to the southwest is justified, as is the crosscutting, except that the allowance for crosscutting should be increased from 95 to 125 feet, but the plan to drift to the northeast is acceptable only in part. The last 250 to 275 feet of this proposed drift would be in schist, to judge by the surface, and, considering the history of Upper Rambler and nearby surface workings, drifting in the schist is inadvisable. The applicants have agreed to reduce the drift from 575 to 300 feet.

Thus the project can be reduced to 50 feet of sinking and 640 feet of drifting and crosscutting, plus unwatering and minor surface installations. Such a project is estimated to cost $24,410.00 and is recommended for approval in this amount (Government participation 75 percent, or $18,307.50).

RAMBLER MINE
BOULDER COUNTY, COLORADO

Engineering Report

By R. L. Palmer
Mining Engineer
Bureau of Mines

RAMBLER MINE
BOULDER COUNTY, COLORADO

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RAMBLER MINE
BOULDER COUNTY, COLORADO

ENGINEERING REPORT

By

R. L. Bolmer

INTRODUCTION

Smith and Rugg, lessees of the Rambler mine located about 2 miles south of Nederland, Colo., in the Boulder County tungsten district, are applicants for a Defense Minerals Exploration Administration loan to explore the property leased by them for tungsten. The applicants submitted a proposal estimated to cost $26,370.00 (Government participation 75 percent, or $19,777.00) to extend the present Rambler shaft by 50 feet and to drift and crosscut on a new level from this point for 880 feet. The work proposed on the new level included drifting under the present working for 215 feet to the southwest property line and crosscutting for 95 feet to explore other veins. It also included drifting for 575 feet to the northeast under older surface workings; however, this drift, if extended beyond 300 feet from the shaft, would penetrate schist, a rock type considered less favorable for tungsten exploration in this locality. The applicants, therefore, agreed to limit their drifting proposal towards the northwest to 300 feet; they also accepted a recommendation to increase their crosscutting allowance to 125 feet. The proposed project thus was reduced to 640 feet of drifting

and crosscutting and 50 feet of sinking, plus unwatering the lower 60 feet of the present shaft and minor rehabilitation work and surface installations.

ACKNOWLEDGMENTS

Reference was made in the preparation of this report to a War Minerals Report of the Bureau of Mines on the Boulder County tungsten district, December 1944. Project proposals and anticipated mining costs were discussed with engineers of the Bureau of Mines familiar with similar tungsten operations and properties in Boulder County and personally acquainted with the applicants.

The plan of the underground workings off the Lower Rambler shaft that is included with this report was taken from a map by Ogden Tweto, geologist, U. S. Geological Survey.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The claims under lease are located in SE. 1/4 sec. 24, T. 1 S., R. 73 W., 6th P. M., Boulder County, Colo. (fig. 1). They are in the west portion of the Beaver Creek district, a portion of the Boulder County tungsten district. The mine is reached by a quarter-mile access road west from State Highway 119, a paved road between Nederland (2 miles to the north) and Blackhawk. Nederland, a town of about 300 population, is 17 miles west of Boulder, a commercial center 25 miles northwest of Denver. The nearest shipping point is 3 miles south of the property at Rollinsville, a point on the main line of the Denver and Rio Grande Western Railroad.

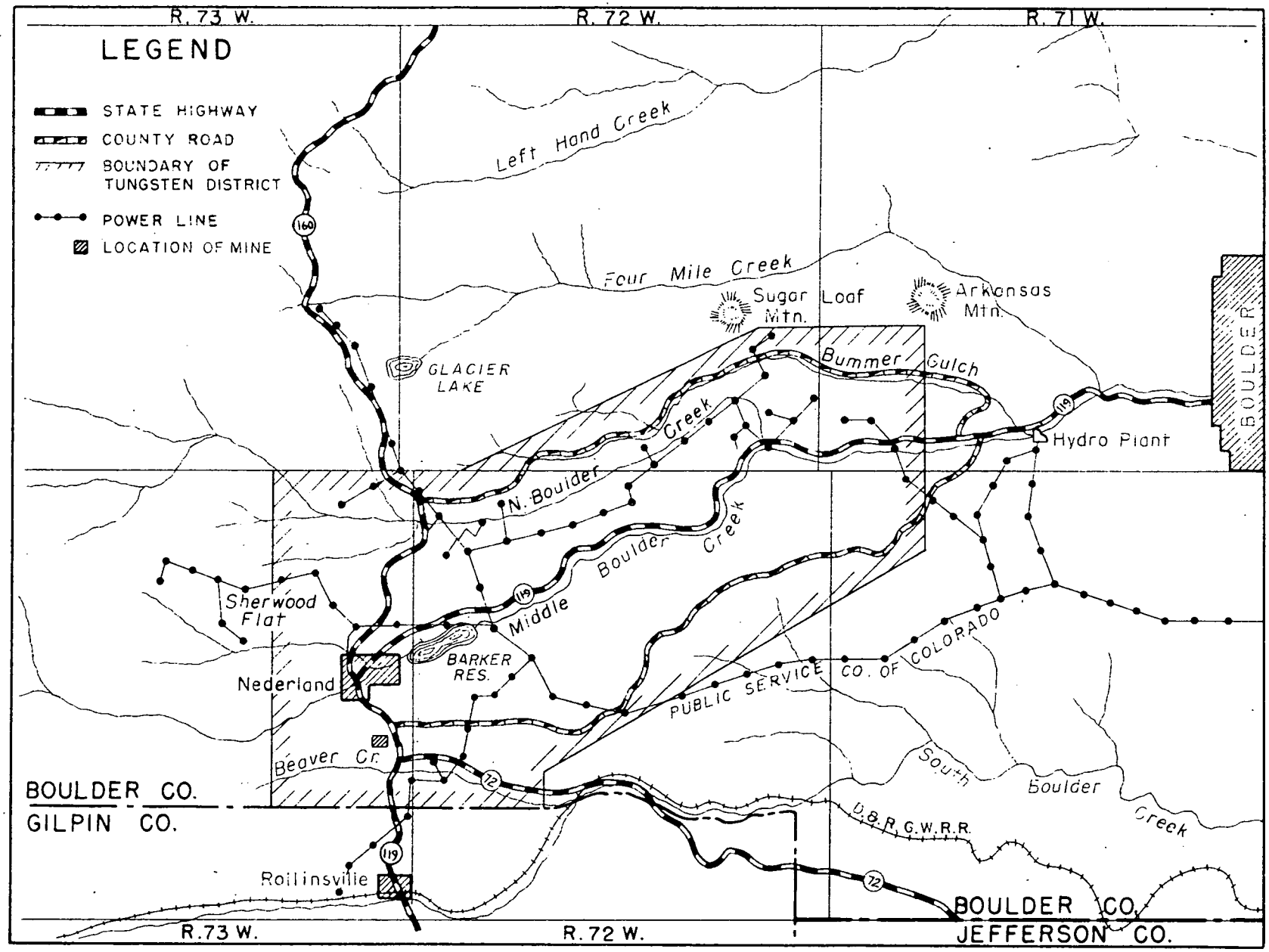


FIG. 1-LOCATION MAP, RAMBLER TUNGSTEN MINE, BOULDER CO., COLO. DMEA 2296

The tungsten district is located on the eastern slope of the Colorado Front Range at altitudes ranging between 6,000 and 9,000 feet. It is an area of rounded mountain tops and flat ridges separated by deep gorges which dissect the terrain. The altitude at the Rambler mine is 8,600 feet. The winters at this elevation are severe and the snowfall heavy; however, the main roads are kept open and interruptions to year-round operations are few. Timber in the vicinity generally is small but suitable for some types of mining needs. The nearest permanent stream, Beaver Creek, is about a quarter of a mile to the south and about 130 feet below the shaft collar. Electric power is available through the district from lines of the Public Service Company of Colorado. Housing facilities are available in Nederland and other small camps in the district.

HISTORY AND PRODUCTION

Tungsten was discovered near Nederland in 1899 and ferberite was first mined in 1900. The district reached largest production during World War I when the price reached $100.00 per unit. In 1917 production reached 2,707 tons of concentrates (60 percent WO_3) but subsequently declined rapidly. In 1942, 380 tons of concentrates were produced. During 1943-44, World War II years, when a government purchasing depot was located in the district, mining activity increased and 10,000 units of WO_3 were stockpiled as ore averaging 0.9 percent WO_3. By 1950, production was practically nil. Total production from the district through 1950 is estimated as 24,000 tons of 60 percent WO_3 concentrates.

The Rambler claim was worked to a small extent before World War I. Records are unavailable but production is believed to have been fairly substantial. Most of the output came from the Upper Rambler shaft and from surface workings between it and the Lower Rambler shaft. This area was productive to depths of 25 to 50 feet where the veins entered schist and pinched out. The Lower Rambler shaft was rehabilitated and most of the development from it was done in 1944 to reach veins cut by trenching and drilling performed by the Bureau of Mines during 1943. No substantial ore body was discovered but ferberite was found in thin seams on several veins. Recent work on the Lower Rambler produced 45 units of WO_3. Small but rich ore shoots were mined from three shafts, all within 300 feet of the Lower Rambler. The Cross No. 2 shaft, which is just west of the Rambler end line and on one of the Rambler veins, reportedly produced 90,000 pounds of tungsten from an ore shoot only 30 feet along the vein.

OWNERSHIP AND EXTENT

Joseph M. Smith and Charles Rugg, partners, leased the property containing the Upper and Lower Rambler workings on November 20, 1951, from the owner, George W. Cowdery, of 420 Pine Street, Boulder, Colo. The property described is included in two adjoining patented mining claims:

The Rambler lode mining claim, survey number 18225-A
The Missing Link lode mining claim, survey number 18225-A

The lease, a copy of which is included with the application, is to run for 5 years and contains provisions of renewal for an additional 5 years under certain conditions. The terms of the lease among other provisions include the payment of a 15 percent royalty on the sale price of ore or concentrates sold and require the lessees to work the property continuously with a force of at least two men working at least fifteen 8-hour shifts per month.

The applicants state that the property involved is free of any liens or encumbrances. They also state on form MF-103 that a subordination agreement of the owner is submitted; however, this agreement is not included with the application.

DESCRIPTION OF THE DEPOSITS

Several steeply dipping to vertical fissure veins (probably a branching vein system) strike northeast across the property. The system is exposed along the surface by numerous pits and trenches. The veins in the Upper Rambler shaft area were chiefly in schist and were productive to 25 to 50 feet below the surface. In the Lower Rambler shaft workings veins are mostly in pegmatite, granite, or aplite. The ore occurred for shorter distances along the veins but extended to depths of more than 100 feet. The veins are mostly horn quartz gangue with thin seams of ferberite mineralization occurring at places along them. No well defined ore shoots, as occur on adjoining claims, were discovered by development on the 92-foot level but smaller stopes were worked down to this depth at isolated places. In places, ferberite

occurs as thin seams on joint cracks in the wall rock. Ferberite occurred on the vein on which the shaft was sunk from the 92-foot level to the bottom, 62 feet lower. A vein developed by the 92-foot hanging wall drift dips towards the foot wall vein on this level; these probably intersect at a lower depth.

In this district, ore generally occurs as lenses along the vein fissure, ranging in length from a few feet to 200 feet but averaging 50 to 80 feet. The width of ore ranges from less than an inch to several feet; the average width mined, however, is only a few inches. Ferberite in the lenses usually is high grade and the country rock virtually barren. The ore and waste are easily distinguished by visual inspection and the deposits are adapted to selective mining and hand sorting. The ore is fairly soft and, if one side of a lense is exposed, the ore can be removed easily with a moil and thus reduce the waste mined with the ore to a minimum. Fine breaking is not required to separate ore from waste.

Considerable waste must be broken to provide working space. Walls are weak and require artificial support which can be obtained by utilizing the waste from selective mining and in hand sorting waste from ore in the stopes. A horizontal cut-and-fill method usually is employed by the miners and lessees in the district. In general, no effort is made to produce large tonnages but rather to obtain complete extraction of the ore with a minimum waste.

MINABLE ORE RESERVES

The workings on the veins near the Upper Rambler shaft were productive 25 to 50 feet from the surface where the veins reportedly pinched and flattened. These workings are caved and inaccessible but the occurrence of ore in schist at depth is considered improbable. Most of the limited amount of ore developed from workings off the Lower Rambler shaft has been extracted. The small amount remaining on the 92-foot level is low-grade milling ore. The applicants report that they extracted 19 tons of such ore to a minable width and concentrated it into 354 pounds of 55 percent WO_3 concentrates. This indicates a grade in place of about 0.97 percent WO_3.

The future of the property lies in exploration with depth below the present 92-foot level workings. Exploration on this level has disclosed veins but relatively little ore; however, the extension of the veins below this depth is indicated. The occurrence of ore shoots along these veins at greater depths is based principally on like occurrences on similar veins in the district and on adjoining property in similar wall rocks and partly on the ferberite mineralization encountered in the shaft and along the 92-foot level by the present exploration and development. An ore shoot formed at the junction of two veins in the adjoining Cross mine was reportedly followed by the Cross shaft to a depth of 125 feet where the body dipped onto the adjoining Rambler claim.

The property at present has no minable ore reserves.

PRESENT STATUS

Exploration and Development

The present accessible underground development is centered in the area of the Lower Rambler shaft and extends from the shaft southwest to the claim line. The Lower Rambler is an inclined shaft 150 feet in depth driven at about 77° towards the northwest. A level 92 feet below the collar was developed off of this shaft by drifting along a vein encountered in the shaft. Drifting along this vein or splits off it extended for a total distance of 140 feet both northeast and southwest from the shaft. A 65-foot crosscut driven into the hanging wall from the southwest drift cut four veins. Drifting on the most promising hanging wall vein proceeded 33 feet to the northeast and 170 feet southwest to the property line. A short crosscut towards the footwall connects the end of this southwest hanging wall drift to a second shaft from the surface.

Most of the 92-foot level development was driven in 1944 to explore veins disclosed by surface drilling performed by the Bureau of Mines the previous year. Five small stopes were worked along hanging and footwall splits of the vein. The maximum distance stoped along the vein was 30 feet and the distance above the level, 25 feet. The extent of development from the Lower Rambler shaft is shown on figure 2. The shaft is flooded below the 92-foot level.

Mining and Milling Equipment and Other Facilities

The following facilities are on the property and available for use by the applicants through the terms of their lease:

16 ft. x 28 ft. wooden hoist house and shop

Headframe with sheave wheel, dumping arrangement

Powder magazine

Ore house

The hoist house and shop will require minor repairs. Labor and materials for these repairs are estimated at $40.00. The headframe and dumping arrangement needs repairs; parts and labor for this are estimated at $90.00.

The applicants have agreed to furnish the following listed equipment for the project. The depreciation charge assigned this equipment is approximately that asked by the applicants and generally is lower than standard depreciation rates for such items.

Gardner-Denver WH210, gasoline-powered compressor	11 months at $25.00/month =	$275.00
Gardner-Denver S55, sinker-type drill	11 months at $5.00/month =	55.00
Denver Engineering Company hoist, Ford V-8 engine	none asked =	---
1942 Ford dump truck	11 months at $10.00/month =	110.00
Total depreciation		$440.00

There are no milling facilities at the property.

PROJECT PROPOSALS, WITH COSTS

Exploration and Development

The applicants must repair the hoist house and headframe, dewater the lower 60 feet of the Rambler shaft, and rehabilitate this section (replace timber, string air, water, and pump lines, et cetera). They propose to extend the shaft for a new 200-foot level which will amount to 60 feet of sinking if a sump is included. Two hundred and fifteen feet of drifting to the southwest and 300 feet of drifting to the northeast are proposed on the 200-foot level. A total crosscutting allowance of 125 feet to explore for the veins at the shaft bottom is included.

The shaft will be driven approximately 5 feet by 9 feet in cross section; drifts and crosscuts will be approximately 7 feet by 5 feet in cross section.

Rehabilitating and preparation work is estimated to cost $1,000.00 and will require about 2 weeks to complete. Sinking 60 feet is estimated at $3,900.00, or $65.00 per foot. The estimated time for sinking this distance is 8 weeks. Drifting and crosscutting a total of 640 feet are estimated at $17,000.00, or $26.56 per foot; this work should be completed in about 35 weeks.

Summary of Costs

(1) Unwater and rehabilitate shaft, set up plant, repair existing facilities.

(a) Labor:		
Foreman, 12 days at $16.00 plus overtime	$208.00	
Miner, 12 days at $13.20 plus overtime	171.60	
Helper, 12 days at $12.00 plus overtime	156.00	
Hoistman, 12 days at $12.00 plus overtime	156.00	
Total	$691.60	
Payroll taxes, compensation, et cetera	30.77	$722.37
(b) Timber		60.00
(c) Pipe (air, water, pump line)		115.00
(d) Gasoline, oil (compressor, hoist)		40.00
(e) Supplies, small tools, repair parts		62.63
Total rehabilitation		$1,000.00

(2) Sink 60 feet to 200-foot level.

(a) Labor:		
Foreman, 48 days at $16.00 plus overtime	$832.00	
Miner, 48 days at $13.20 plus overtime	686.40	
Helper, 48 days at $12.00 plus overtime	624.00	
Hoistman, 48 days at $12.00 plus overtime	624.00	
Total	$2,766.40	
Payroll taxes, compensation, et cetera	123.10	$2,889.50
(b) Timber		125.00
(c) Explosives		275.00
(d) Gasoline, oil		160.00
(e) Drill steel, bits		130.00
(f) Pipe (air, water, pump line)		35.00
(g) Air, water hose		85.00
(h) Miscellaneous supplies, repair parts, etc.		200.50
Total sinking		$3,900.00

(3) Drift and crosscut on the 200-foot level a total of 640 feet.

(a) Labor:

Foreman, 213 days at $16.00 plus overtime	$3,692.00	
Miner, 213 days at $13.20 plus overtime	3,045.90	
Helper, 213 days at $12.00 plus overtime	2,769.00	
Hoistman, 213 days at $12.00 plus overtime	2,769.00	
Total	$12,275.90	
Payroll taxes, compensation, insurance, et cetera	546.10	$12,822.00
(b) Timber		150.00
(c) Pipe		200.00
(d) Gasoline, oil		700.00
(e) Explosives		1,200.00
(f) Track, ties		400.00
(g) Drill steel, bits		750.00
(h) Air, water hose		85.00
(i) Miscellaneous supplies, repair parts, et cetera		693.00
Total drifting, crosscutting		$17,000.00

New Equipment and Facilities

The applicants have requested approval to rent or purchase certain items of operating equipment in addition to that furnished by themselves. The equipment requested with one exception is justified in order to proceed with the project. The applicants have agreed to furnish a Gardner-Denver 855 jackhammer. In addition, they propose to rent a second jackhammer with a mounting and purchase a column and arm. These items presumably are for use in drifting and crosscutting. Two drills on the project are not considered necessary. A shell mounting requiring a column and arm could be supplied for the

applicants' S55 but the purchase of a 4-foot Gardner-Denver pneumatic leg for this machine should prove more efficient. By using a jackhammer with an air leg, setting up and tearing down time is eliminated, steel changes per hole are reduced, and more flexible drilling is obtained. The purchase of an air leg is included in lieu of renting a second mounted jackhammer and purchasing a column and arm.

A generator unit and an electric pump will be necessary to remove water produced from the new 200-foot level. A pneumatic sump pump for use during sinking operations is considered necessary.

The following items are recommended for rental or purchase. The rental rates for the most part are those for which the applicants state they can obtain the equipment locally.

Rentals

Diesel-powered generator,	11 months at $75.00/month =	$825.00
Centrifugal pump and motor,	11 months at $30.00/month =	330.00
Pneumatic sump pump,	2 months at $40.00/month =	80.00
Hoisting bucket,	11 months at $15.00/month =	165.00
Total rentals		$1,400.00

Purchases

4-foot Gardner-Denver pneumatic leg for S55, with hose	$205.00
Mine car, used	100.00
Total purchases	$305.00

Transportation, Including Access Roads

The access road from State Highway 119 is adequate for the proposed project work. No request was made by the applicants for the transportation of men to the mine. Workmen presumably will drive the short distance from Nederland to the mine in their own cars. The dump truck owned by the applicants should be suitable for transporting supplies. A depreciation allowance of $10.00 per month has been allowed for its use for this purpose. The small operating expenses anticipated are included as miscellaneous supplies and repair parts under the various classes of exploration work. The truck would be suitable for transporting to Nederland any ore encountered in the exploration work.

Manpower

Joseph M. Smith, one of the applicants with considerable experience in mining, milling, and leasing in this district, will supervise the project as working foreman. The second applicant probably will work as miner. In addition, a hoistman and a miner's helper must be employed. Other classes of labor are not anticipated.

The following listed labor classification and wage rates are proposed. The mine probably will operate 6 days per week, and overtime at a rate of time-and-one-half for the sixth day has been included in the estimated costs of rehabilitation, sinking, and drifting.

Class	No.	Maximum Wage Per Hour
Working foreman	1	$2.00
Miner	1	1.65
Miner's helper	1	1.50
Hoistman	1	1.50

If experienced manpower becomes available in the district, the applicants have requested authorization of a second shift to consist of a miner, miner's helper, and a hoistman at the same wage rates as above. A second shift would complete the proposed work in a shorter time and effect somewhat of a reduction in overhead expenses.

Power

Although electric power lines traverse the district, the cost of extending a branch line to the property is considered excessive. The compressor and hoist are gasoline powered; power to the electric pump will be supplied by a portable diesel generator.

Water

Water produced by the mine is more than sufficient for drilling, the only operation in the project requiring water.

Others

The contracting for the below listed services which can not be performed by project personnel is recommended.

Service	Maximum Amount
Assaying	$100.00
Surveying	100.00
Accounting	165.00
Total	$365.00

PRODUCTION PLAN

Time Schedule for Completion of Project

The time schedule for completion of the project is estimated as follows:

	Days
Unwater and rehabilitate shaft, set up plant, and repair existing facilities	12
Sink 60 feet to 200-foot level	48
Drift and crosscut on the 200-foot level for a total of 640 feet	213
Total	273

On the basis of a 6-day-work week, this total amounts to 45-1/2 weeks, or approximately 11 months, for completion of the proposed work.

Rate of Production

The rate of production from this property depends upon the results obtained from the exploration project. The extent and grade of ore discovered would govern the units of WO_3 which could be extracted. It is expected, however, that the rate of extraction would be low for this type of operation.

Mining Methods and Costs

The mining methods employed by lessees and small operators in this district are usually a type of open stoping with stull or waste support. Stopes are kept as narrow as possible to reduce dilution of the ore and much ore is hand sorted in the stopes and the waste utilized for ground support. Costs are necessarily high but lessees mine profitably seams of high-grade ferberite less than one inch thick.

Milling Methods and Costs

Any ore produced would be milled in the district. Ore from the Rambler mine is reported to be easy to mill and 55 to 60 percent WO_3 concentrates could be expected. J. M. Smith is reported to have a part interest in the Smith and Tanner mill, near Nederland. It is probable that an attempt would be made to mill any Rambler ore here. It is principally a tabling and jigging mill with a capacity of about 40 tons per 24 hours. Milling charges would be between $6.00 and $7.00 per ton for low-grade ore. The Wolf Tongue mill in Nederland operated by the Vanadium Corporation of America has in the past purchased custom ore at a fluctuating rate that varied from $26.00 per unit for 1 percent WO_3 to $43.60 per unit for 15 percent WO_3.

Royalty

The terms of the applicants' lease provide for a royalty payment to the owner of the property of 15 percent of the sale price on all ore or concentrates sold.

SUMMARY: COST OF PROJECT

The cost of the proposed project is estimated at $24,410.00. This cost is itemized as follows:

Preparation, rehabilitation, and unwatering of shaft	$ 1,000.00
Sink shaft 60 feet	3,900.00
Drift and crosscut 640 feet	17,000.00
Equipment:	
Depreciation	440.00
Purchases	305.00
Rentals	1,400.00
Contracted services	365.00
Total cost	$24,410.00

Government participation in tungsten exploration projects is 75 percent, or in this case

$24,410.00 x 0.75 = $18,307.50

PROPOSED FINANCING

The applicants will participate to the extent of 25 percent of the cost of the project by supplying the capital required over and above the value of their services and equipment allowance.

CONCLUSIONS

The discovery of tungsten reserves by exploration at lower depths from the Lower Rambler shaft is reasonably assured by the geologic setting of the property, by past production from old workings on this and adjacent properties, and by the apparent continuation of a mineralized vein system with depth. The proposed amount and method of exploration is reasonable and justified and is technically feasible. The applicants are experienced in the type of mining involved in the project and can be expected to pursue the work in a diligent and efficient manner.

RECOMMENDATIONS

A tungsten exploration project involving the unwatering and rehabilitation of the Lower Rambler shaft, extending the shaft 50 feet, drifting at this depth 300 feet to the northeast and 215 feet to the southwest, and crosscutting a total of 125 feet is recommended for approval in the amount of $24,410.00.

LARGE FORMAT DOCUMENTS AT END OF FILE

RAMBLER MINE (TUNGSTEN)

BOULDER COUNTY, COLORADO

JOSEPH L. SMITH AND CHARLES RUGG, APPLICANTS

DMEA DOCKET 2296

Geologic Report

by Ogden Tweto
U. S. Geological Survey
Denver, Colorado

RAMBLER MINE (TUNGSTEN)
BOULDER COUNTY, COLORADO

INTRODUCTION

The Rambler mine is near the western edge of the Beaver Creek district, a portion of the Boulder County tungsten district about two miles south of Nederland. The Rambler property comprises two mines, the main, or upper Rambler, and the Lower Rambler, plus many trenches and shallow shafts in the intervening area. The Upper Rambler is about 700 feet west of the Nederland-Blackhawk highway at a point about 500 feet north of the Tungsten or Chance mine; the Lower Rambler is about 550 feet southwest of the Upper Rambler and about 50 feet lower. The Upper Rambler and the surface workings to the southwest have not been worked for 35 or 40 years and are badly caved. The Lower Rambler was worked in 1944, when most of the workings were driven, and is in good shape. The mine has only one level, at 92 feet, but the shaft has been sunk 62 feet below this level.

The Rambler and adjoining Missing Link claims are owned by G. W. Cowdery and have been leased by J. M. Smith and Charles Rugg, the applicants, until November 20, 1956. Smith and Rugg have submitted an application for a DMEA loan of $26,370 (Government participation 75%, or $19,777.50) to sink the Lower Rambler shaft 50 feet and do 880 feet of drifting and crosscutting, including a 575-foot drift to the northeast to a point beneath the Upper Rambler mine. These men are personally known to me as reliable, capable and experienced tungsten miners.

GEOLOGY

The country rock of the Rambler area is schist intruded by many irregular bodies of granite, pegmatite, and aplite, as shown in figure 1. The workings are on a branching system of northeast-trending veins, most of which dip northwest. The productive parts of these veins are indicated in figure 1. In general, near the Upper Rambler, the veins are in schist and minor aplite and were highly productive to depths of 25 to 50 feet, where they entered a soft, highly biotitic schist, flattened abruptly, and pinched. Near the lower Rambler, the veins are chiefly in pegmatite, granite, and aplite; here the ore extended for shorter distances along the veins, but to depths of more than 100 feet. Small but rich ore shoots were mined in the Cross No. 2, Missing Link, and Nellie Davis shafts, all within 500 feet of the Lower Rambler. Unlike these neighboring mines, the Lower Rambler itself has thus far shown no well-defined ore shoot, but has revealed several veins with thin seams of ferberite on them, and innumerable "feeders" of ferberite on the joint planes and minor fractures in parts of the workings (fig. 2). Small stopes have been made at places on the veins from the surface down to the 92-foot level.

The production from the Rambler property is not known with certainty but is fairly substantial. Most of the output came from the Upper Rambler and from surface workings between the two Rambler shafts. The Cross No. 2 mine, which is on one of the Rambler veins and just west of the Rambler endline, produced considerable tungsten (90000 lbs. of W according to one report) from an ore shoot that extended only 30 feet along the vein. Production from the Lower Rambler has been rather small, probably a few hundred units WO_3.

CONCLUSIONS

Although most of the production from the Rambler property has come from the Upper Rambler and vicinity, the outlook for future production seems better in the vicinity of the Lower Rambler. Several veins are present and are in granite, pegmatite, or aplite, in contrast to the schist of the Upper Rambler. During a program of trenching and diamond drilling done by the Bureau of Mines in 1943, ferberite was found in one trench and four drill holes just west of the Lower Rambler shaft. Most of these occurrences have since been reached by the underground workings. Ferberite is present, mostly in marginal quantity, on three main veins and several lesser veins on the 92-foot level, and at places, as thin seams on almost every joint crack in the wallrocks. Ferberite was found in the shaft from the 92-foot level down to the bottom, 62 feet lower, and Tom Walsh, former operator of the mine, always maintained that this part of the shaft "payed for itself."

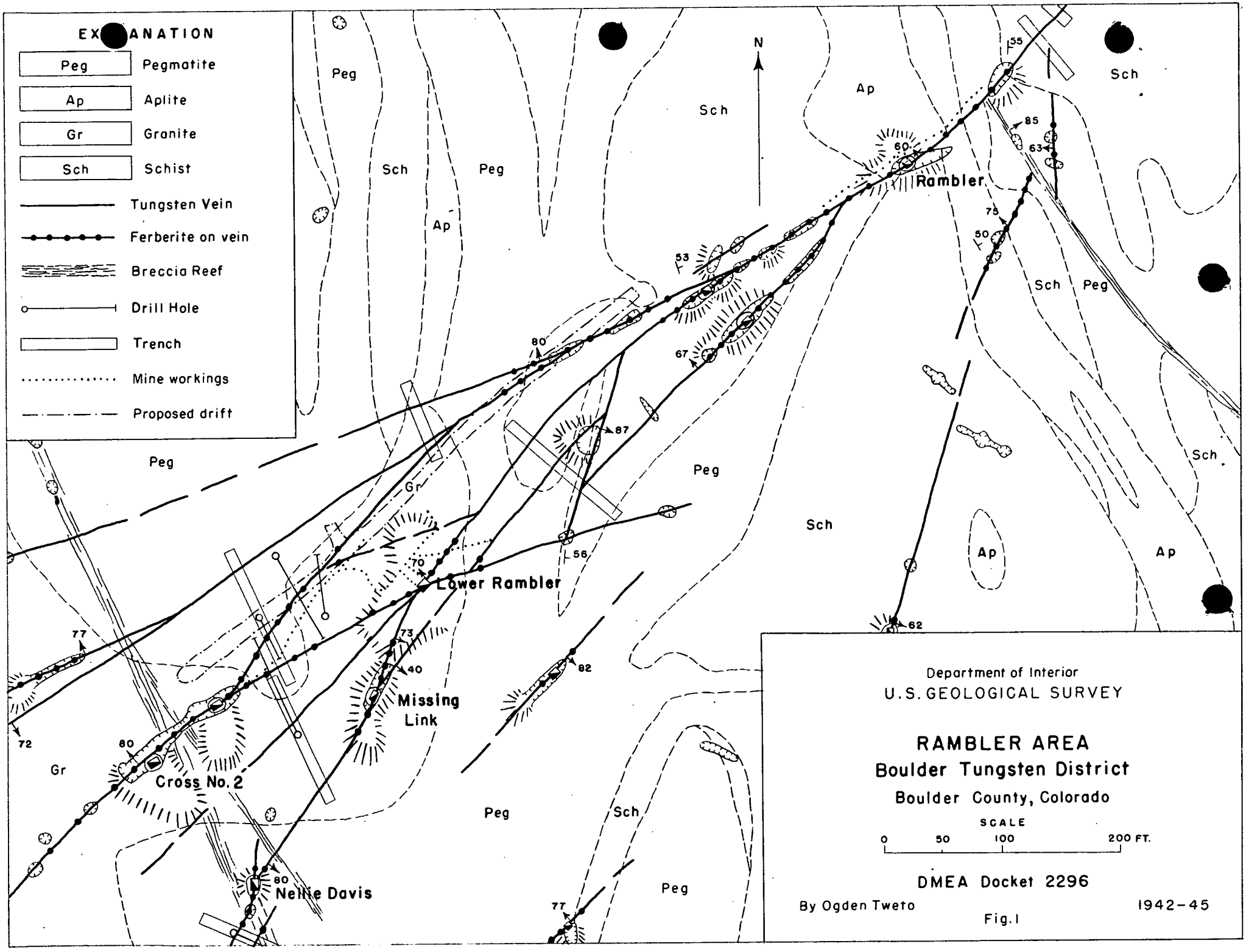
The applicants' proposal to sink the shaft 50 feet (giving, with allowance for a sump, about a 100-foot lift) and drifting southwest beneath the present workings is reasonable and justified. The proposal to drift northeast toward the Upper Rambler is justified insofar as the veins remain in hard rocks, but considering the history and geology of the Upper Rambler mine, the last 250 to 275 feet of the proposed 575-foot drift seems inadvisable. As shown on figure 1, a large patch of schist lies about 300 feet northeast of the Lower Rambler shaft. It was in this schist patch that the Rambler vein flattened and pinched at shallow depth,

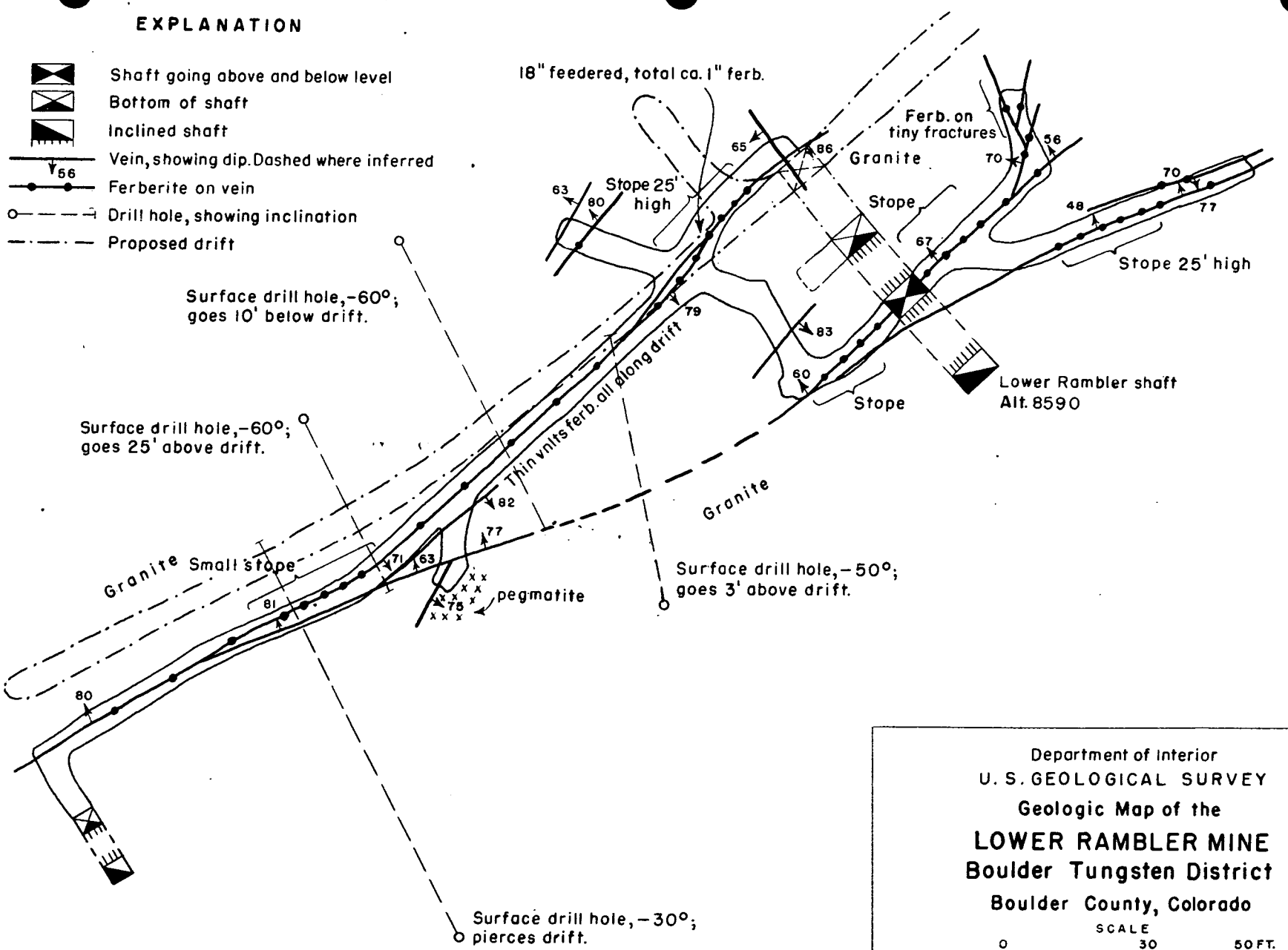
and the plan to drive into it at a depth of 250 feet below the surface is not justified until some evidence is available of favorable wallrocks and of a re-steepening of the vein. Accordingly, J. M. Smith, speaking for the partners, has agreed to cut 275 feet from the proposed drift, leaving 300 feet.

The vein the shaft is on and the vein 40 feet to the northwest on the 92-foot level dip toward each other (fig. 2) and will probably junction at a depth of about 60 feet below the level. Selection of the best vein to drift on below the junction cannot be made until the shaft is sunk. Thus some crosscutting may be necessary after the shaft is sunk and before drifting is started. As there are several subparallel veins in the lower Rambler area, crosscutting at one or two other sites is also advisable. A total of 95 feet of crosscutting is proposed in the application; this may not be quite enough and should be increased to 125 feet.

RECOMMENDATIONS

A project involving sinking of the Lower Rambler shaft 50 feet, drifting about 215 feet southwest to the property line, drifting 300 feet to the northeast, and crosscutting a total maximum of 125 feet at sites to be selected after drifting is completed is recommended for approval. The cost of such a project, including unwatering and surface installations, is estimated as $24,410 in the accompanying engineering report. The project in this amount (Government participation 75%, or $18,307.50) is recommended for approval.


EXPLANATION
Peg Pegmatite
Ap Aplite
Gr Granite
Sch Schist
Tungsten Vein
Ferberite on vein
Breccia Reef
Drill Hole
Trench
Mine workings
Proposed drift
N
Rambler
Lower Rambler
Missing Link
Cross No. 2
Nellie Davis
Department of Interior
U.S. GEOLOGICAL SURVEY
RAMBLER AREA
Boulder Tungsten District
Boulder County, Colorado
SCALE
0 50 100 200 FT.
DMEA Docket 2296
By Ogden Tweto
1942-45
Fig. 1



Department of Interior
U. S. GEOLOGICAL SURVEY
Geologic Map of the
LOWER RAMBLER MINE
Boulder Tungsten District
Boulder County, Colorado

SCALE
0 30 50 FT.

DMEA Docket 2296

By Ogden Tweto Fig. 2 1945

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

224 New Customhouse
Denver 2, Colorado

June 13, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Amendment to Contract Idm-E278, Docket DMEA 2296, Joseph M. Smith and Charles R. Rugg

Enclosed are the original and two signed copies of an amendment to Contract Idm-E278, Docket DMEA 2296. Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King

W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
DENVER
JUN 16 1952

SDS 6-14-52

50

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

224 New Customhouse
Denver 2, Colorado

July 11, 1952

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMA Docket 2296, Contract Idm-E278 (Tungsten) Smith and Rugg, Rambler Mine, Boulder County, Colorado

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data for the period of May, 1952, pertaining to DMA Docket 2296, Contract Idm-E278, Smith and Rugg.

W. H. King
W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Bureau of Mines
JUL 17 1952

Mining Division
Region IV

July 1, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMA Docket 2296, Contract Idm-E278 (Tungsten) Smith and Rugg, Rambler Mine - Operator's Monthly Progress Report for the period of May, 1952

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

Work accomplished is in accordance with the contract and payment is recommended for the amount of $1700.03, which is 75 percent of the total of $2,266.71.

Pump rental charges are allowable as the total charge does not exceed that set up by the contract for the period of April 8, 1952 through May 31, 1952.

W. H. King

W. H. King

Enclosures

WHD:oc

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
June 25, 1952

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296, Contract Idm-E278, Smith and Rugg, Rambler mine, Boulder County, Colorado - May 1952 progress report.

Please find enclosed five copies of the subject progress report, form MF-104, with narrative, plan and section showing progress, and payroll summary, along with seven copies of R. L. Bolmer's memorandum covering his inspection of the underground progress and accounts.

Payment of $1,700.03, or 75 percent of the total $2,266.71 claimed by the operator, is approved.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc 4
AHKoschmann
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
June 25, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278, Smith and Rugg, Rambler mine, Boulder County, Colorado - May 1952 progress report

Progress under the subject contract was inspected June 16, 1952, with Messrs. Smith and Rugg. During May, the Lower Rambler shaft was sunk 29 feet to a depth of 197 feet. A level station was established at 187 feet and drifting on the vein was started northeast and southwest from the shaft. These drifts were each advanced 12 feet from the shaft in May. On the date of inspection, the southwest had been advanced 47 feet from the shaft and the northeast drift, 19 feet.

The vein exposed in the lower sections of the shaft and in the drifts is not too promising. The operators believe the lower section of the shaft may have been driven on a flatter split off the mineralized vein that was exposed higher in the shaft. Rather than change the shaft too abruptly, they continued sinking on the flat structure. They think the mineralized vein which was followed part way in the shaft, may be now in the footwall of the new level. A hanging wall vein, exposed on the 90-foot level, should intersect the shaft vein at about the elevation of the new level. The operators will crosscut from the southwest drift a maximum of 25 feet into both the foot and hanging walls in an attempt to pick up a better structure on which to drift.

Project accounts were checked at the office of Wilkins and Scheme, accountants, Boulder, Colorado.

Item 2, Operating Equipment.

(b) Rented: $75.00 is correct and allowable for a diesel generator. The rental of two pumps is allowed under the contract, one at $30.00 per month and one at $40.00. No charge was claimed last period for pump rental although pumps were in use. To May 31, 1-3/4 months' rental on each of two pumps is allowable. The rental claimed, 1-1/2 months' on one pump and 1 month's rental on each of two others, is equivalent to that allowable under the contract. As sinking has been completed, only one pump will be retained.

Item 2, Operating Equipment.

(c) Furnished by the Operator: The amounts itemized are a month's depreciation at the allowable rate for this equipment.

Item 3, Rehabilitation and Repairs.

(a) Facilities: $6.00 is the cost of minor hardware items for the rehabilitation of the headframe.

Item 4, Labor: $303.70 is the gross wages paid this period per the attached copy of the payroll.

Item 5, Supervision: $476.00 is the gross wage paid for supervision at the rate prescribed in the contract.

Item 6, Supplies.

(b) Explosives: $357.40 is the correct amount paid for 1/2 ton of dynamite, 6,000 feet of fuse, and for blasting caps.

(c) Repair Parts: $3.67 is the cost of a valve spring for the Gardner-Denver compressor.

(d) Other: $321.19 is correct in amount. It consists of miscellaneous supplies received from several jobbers and was substantiated by invoices. Included in the amount was lumber, $66.04; gasoline, oil, diesel fuel, $141.06; printed maps of the Rambler mine, $16.83; and drill steel, bell cord, pipe fittings, small tools, et cetera, $97.26.

Item 9, Insurance.

(c) Workmen's Compensation: $40.00 is the amount paid the State Compensation Fund on the basis of the gross wages earned by employees.

Item 11, Other.

Bookkeeping: $50.00 is the amount charged by Wilkins and Schone for bookkeeping services during May 1952. This amount is allowable under the contract.

The project costs incurred during this period are approved in the amount of $2,266.71. Payment of 75 percent of this amount, or $1,700.03, is recommended.

R. L. Bolmer

R. L. Bolmer, Mining Engineer

RLB/amh

cc 6
AHKoschmann
E278
DMEA Chron.

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No.
Idm-E 278

7/21/52

Name of Operator Joseph M. Smith and Charles R. Rugg
Docket No. DMA 2296
Total Contract Amount $ 24,400
Government Participation: 75 % Amount, $ 18,300
Distribution of Expenditures for Month of May, 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 17 1952

CERTIFICATION

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

Joseph M. Smith and Charles R. Rugg
(Name of Company)

By Joseph M Smith
(Signature of Authorized Official)

June, 12 1952
(Date)

Partner
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]						
Diesel Generator	75.00	56.25	131.25	75.00	56.25	131.25
Pump (1½ mo.)	43.75		43.75	43.75		43.75
Pump	25.00		25.00	25.00		25.00
Pump	25.00		25.00	25.00		25.00
(c) Furnished by operator						
Compressor	25.00	18.75	43.75	25.00	18.75	43.75
Jackhammer	5.00	3.75	8.75	5.00	3.75	8.75
Dump Truck	10.00	7.50	17.50	10.00	7.50	17.50
3. Rehabilitation and Repairs:						
(a) Facilities	6.00		6.00	6.00		6.00
(b) Buildings						
(c) Installations						

SMITH and RUGG
Contract Idm - E278
DMA - 2296
May, 1952

NARRATIVE REPORT

1. SHAFT
Sinking continued to 105 feet below 92 foot level, making total depth of 197 feet below collar of shaft.

After discussing formation with Mr. Ogden Tweto, a station was established at 95 feet below the 92 foot level or approximately 187 feet below collar of shaft with a 10 foot sump below station.

Shaft advance this month: 29 feet.
Shaft station with ample working space shot out and timbering underway.

2. DRIFT
Drifts started both ways along vein. Advance 12 feet northeast and 12 feet southwest. Total advance 24 feet.

3. WATER
Water flow has decreased to approximately 35,000 gallons in 24 hours and being removed with one pump on 92 foot level and one sinking pump. Upon completion of station upper pump to be moved to newly established station and water will be handled with one pump.

4. OPERATING CREW DURING MAY
Total crew consisted of two operating partners underground.
One regular hoistman
One alternate hoistman (34 hours)
One mucker (14 hours)

5. No ore showing at present time. Both drifts show granite formation with quartz vein pinched to small gouge streak.

6. No unusual difficulties were encountered.

SMITH and RUGG

By Joseph M. Smith

SMITH and RUGG
Contract Idm - E278
DMA - 2296
May, 1952

PAYROLL SUMMARY

4. LABOR

Name	Soc. Sec. No.	Classification	Rate	Time	Gross Wages	Soc.Sec.	W.H.T.	Net Paid
Rugg, Charles R.	521-14-9903	Miner	$1.65 per hr.	248 hrs.	$ 409.20	none	none	$ 409.20
Langley, John R.	522-28-9447	Hoistman	1.50 per hr.	160 hrs. Reg. $240.00 24 hrs. O.T. 54.00	294.00	$ 4.41	$47.20	242.39
Smith, Michael B.	523-40-7790	Hoistman	1.50 per hr.	53 hrs.	79.50	1.20	13.55	64.75
Hedges, Robert G.	521-38-2437	Mucker	1.50 per hr.	14 hrs.	21.00	.31	3.60	17.09
SUB-TOTAL					$ 803.70	$ 5.92	$64.35	$ 733.43

5. SUPERVISION

Joseph M. Smith	522-07-9589	Supervisor	$2.00 per hr.	238 hrs.	476.00	none	none	476.00
TOTAL					$1,279.70	$ 5.92	$64.35	$1,209.43

MONTH[illegible] SUMMARY COST STATEMENT—C[illegible]nued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	803.70	670.80	1474.50	803.70	670.80	1,474.50
5. Supervision	476.00	240.00	716.00	476.00	240.00	716.00
6. Supplies						
(a) Timber						
(b) Explosives	357.40		357.40	357.40		357.40
(c) Repair Parts	3.67		3.67	3.67		3.67
(d) Other	321.19	343.93	665.12	321.19	343.93	665.12
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability						
(c) Workmen's Compensation	40.00	147.00	187.00	40.00	147.00	187.00
10. Contract Work						
11. Other (specify)						
Bookkeeping Services	50.00		50.00			
				50.00		50.00
Total	2,266.71	1,487.98	3,754.69	2,266.71	1,487.98	3,754.69
Deletions						
Adjusted totals						
Totals previously reported				1,487.98		
Totals to date				3,754.69		

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by R. L. Bolmer
Amount approved for payment $1,700.03 $1700.03 $1700.03
Remarks

16—64068-3

Schedule DMA 53-5
July 9, 1952
$1700.03

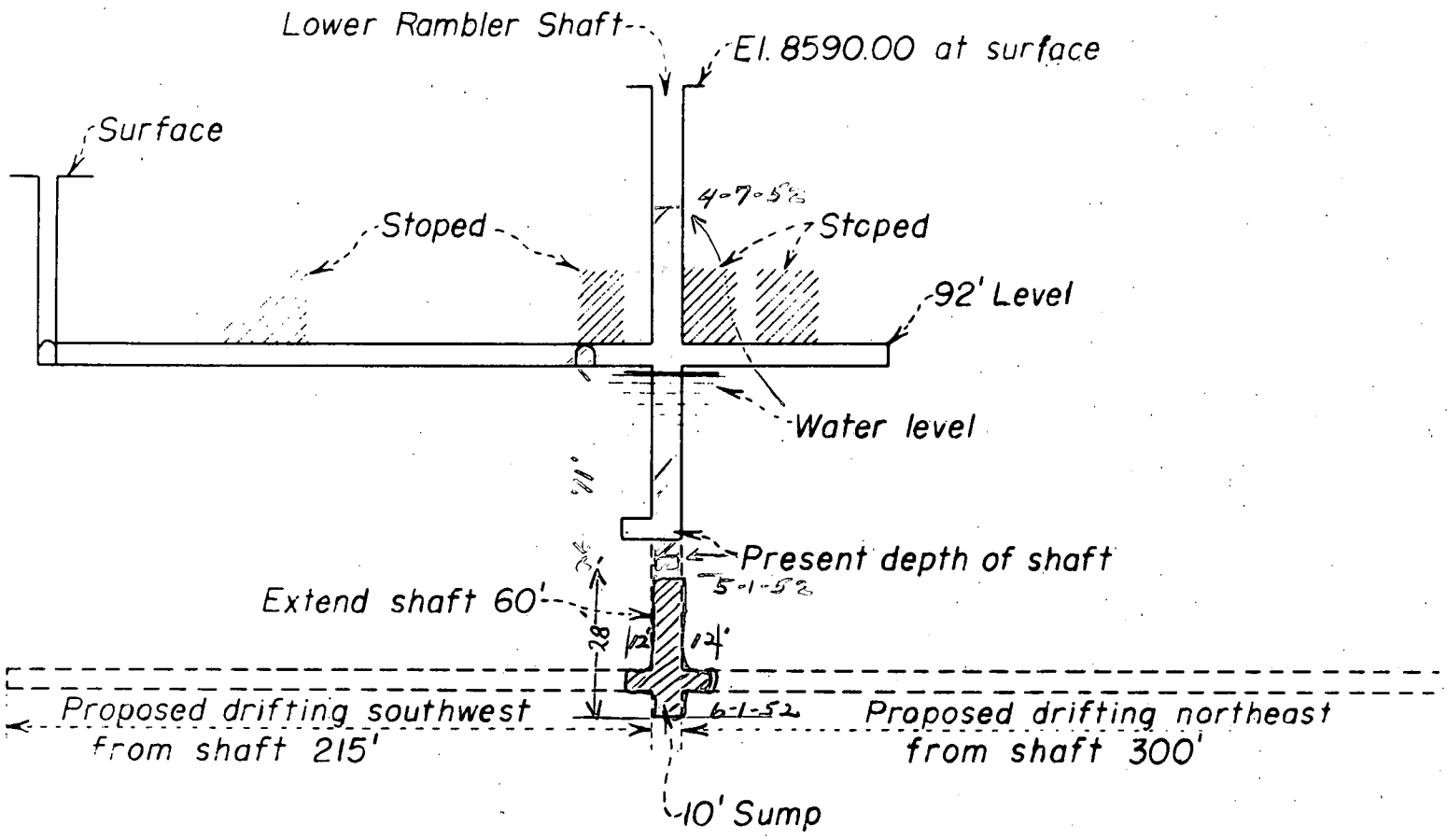
EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF May, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting 11.27	143.30	23.38	76.41	10.75	253.84	feet	24	none	24	515
Crosscutting						feet	none	none	none	125
Raising										
Shafts 89.67	1136.40	105.37	605.85	65.25	2012.87	feet	29	6	35	60
Winzes										
Drill holes										
Overburden										
Rehabilitation and preparation										
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify)										
Totals	1279.70	206.75	682.26	96.00	2265.71		53	6	59	700

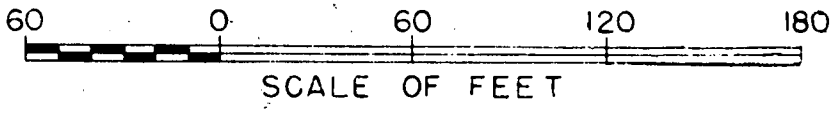
[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE



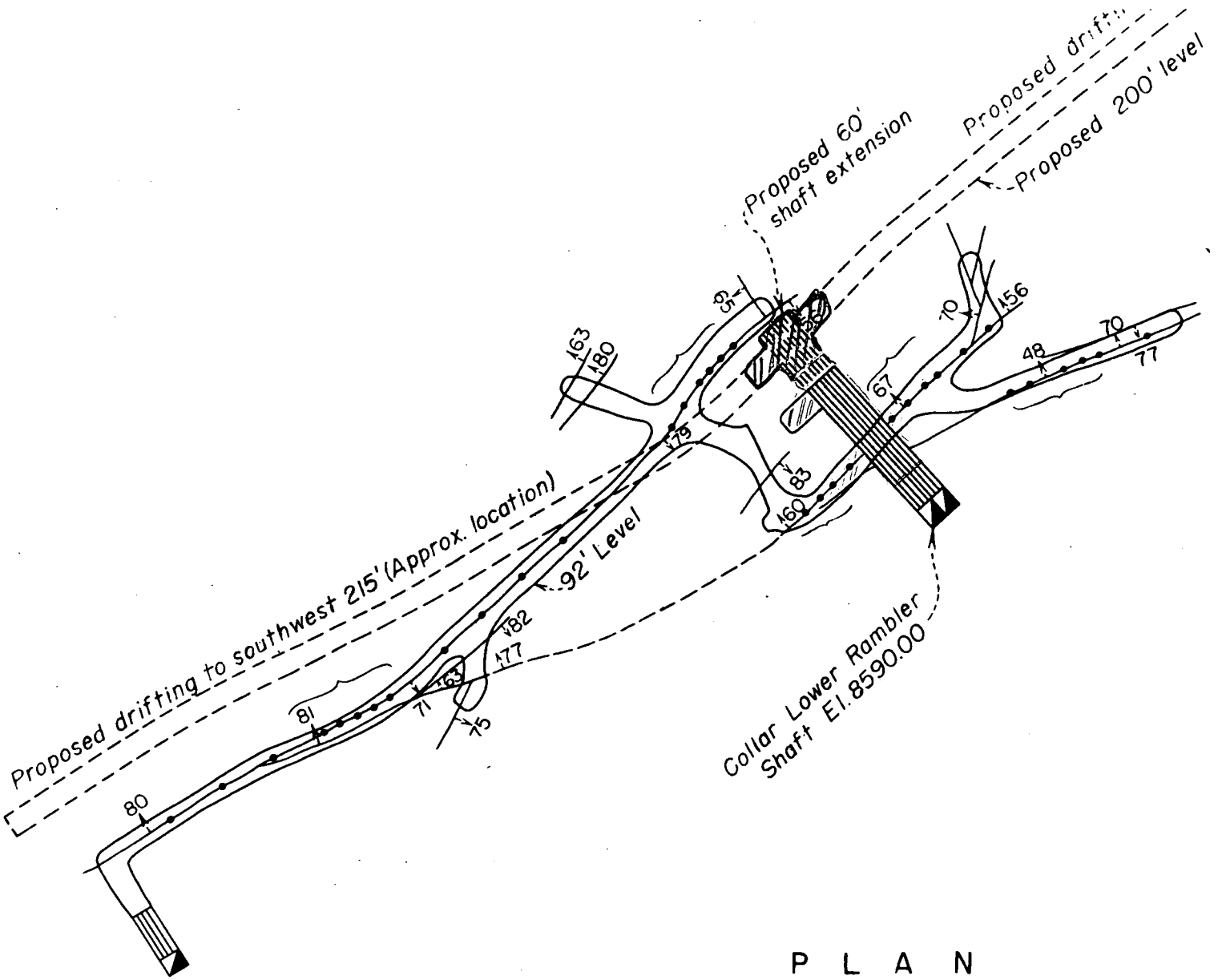
VERTICAL SECTION

SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION
OFF THE LOWER RAMBLER SHAFT



4-[illegible]-52 To 5-1-52 Un[illegible]ater 50' To Bott[illegible]
Sink 168' T 169'
Rehab[illegible] 50' To 168'

5-1-52 To 6-1-52 Sink 169' To 197'
Cut Station at 187'
Drift S.W. 0' To 12'
Drift N.E. 0' To 12'



P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

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

224 New Customhouse
Denver 2, Colorado

June 3, 1952

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Form MF-104, DMEA Docket 2296, Contract Idm-E278,
Smith and Rugg, Rambler Mine, Boulder County, Colorado

Enclosed are the Operator's Monthly Progress Report Form MF-104, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data for the period of April, 1952, pertaining to DMEA Docket 2296, Contract Idm-E278, Smith and Rugg, Rambler Mine, Boulder County, Colorado.

W. H. King

W. H. King

jp

cc: Contract
Traver
Koschmann (2)
Chron

MF-104
(August 1951)

Budget Bureau No. 42-R1036.2.
Approval Expires 6-30-52.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Contract No. Idm-E 278

Name of Operator Joseph M. Smith & Charles R. Rugg
Docket No. DMA 2296
Total Contract Amount, $24,400.00
Government Participation: 75 % Amount, $ 18,300.00
Distribution of Expenditures for Month of April, 1952

STRATEGIC AND CRITICAL MINERAL EXPLORATION PROGRAM
OPERATOR'S MONTHLY PROGRESS REPORT

Operators are to submit monthly reports to the designated field representative of the Defense Minerals Administration. Reports are to be submitted in quadruplicate prior to the 15th day of the month following the reporting period.

Narrative.—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered is to be furnished.

Maps.—Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

Cost Accounts.—All applicable parts of this form are to be filled in. This report will form the basis for payments of the Government's participating share of expenses. Audits of accounts may be made from time to time.

CERTIFICATION

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

Joseph M. Smith & Charles R. Rugg
(Name of Company)

By Joseph M. Smith
(Signature of Authorized Official)

Joseph M. Smith May 9, 1952
(Date)

Partner
(Title)

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

16—64068-3

MONTHLY SUMMARY COST STATEMENT

List as Shown on Exhibits Attached to Contract

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only		
				Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
1. Fixtures and Improvements:						
(a) Facilities						
(b) Buildings						
(c) Fixtures						
2. Operating Equipment:						
(a) Purchased[1]						
(b) Rented[2]						
Diesel Generator	56.25	None		56.25	none	
(c) Furnished by operator						
Compressor	18.75	None		18.75	none	
Jackhammer	3.75	None		3.75	none	
Dump Truck	7.50	None		7.50	none	
3. Rehabilitation and Repairs:						
(a) Facilities						
(b) Buildings						
(c) Installations						

WLD 6-3-52

Mining Division
Region IV

May 27, 1952

Memorandum

To: T. A. Christensen

From: Acting Chief, Mining Division, Region IV

Subject: DMEA Docket 2296, Contract Idm-E278, Smith and Rugg, Rambler Mine, Boulder County, Colorado - Operator's Monthly Progress Report for the period of April, 1952

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

Work accomplished is in accordance with the contract and payment is recommended for the amount of $1,115.98, which is 75 percent of the total of $1,487.98.

W. H. King

W. H. King

WLD:oc

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 20, 1952

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2296, Contract Idm-E278, Smith and Rugg, Rambler mine, Boulder County, Colorado - April 1952 progress report

Please find enclosed four copies of the above monthly progress report, form MF-104, with narrative and payroll, and six copies of R. L. Bolmer's memorandum covering inspection of the accounts and underground progress.

Bolmer approves payment of $1,115.98, or 75 percent of the total $1,487.98 claimed by the operator.

Progress units, monthly and cumulative, are correct.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

WMT/amh

cc 3
AHKoschmann
E278
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
May 20, 1952

Memorandum

To: Chief, Colorado Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2296, Contract Idm-E278, Smith and Rugg, Rambler mine, Boulder County, Colorado - April 1952 progress report

Progress at the Rambler mine under the above contract was inspected May 14, 1952. The progress reported in the monthly narrative was found correct. After unwatering the mine, the shaft bottom measured 71 feet below the 92-foot level, or 163 feet below the shaft collar. Sinking began from this point and the shaft was deepened 6 feet in April to a depth of 169 feet. On the date of inspection, the bottom of the shaft was approximately 190 feet.

The vein has flattened considerably in the lower section of the shaft and sinking much deeper seems unwarranted. A level station will be established at approximately 192 feet with a sump about 10 feet below that. This will provide a 100-foot lift between levels, a standard practice in the district.

The contract provides for deepening the shaft 60 feet but only about 40 feet of sinking will be necessary as the shaft was found to be deeper than anticipated. The contract provides for drifting from "the 150-foot level" of the shaft. This is in error and should have stated "drifting from the 200-foot level" of the shaft.

Project accounts were checked at the office of Wilkins and Schone, accountants, Boulder, Colorado.

Item 2 (b), Equipment rented, $56.25, is three-fourths of a month's rental on a diesel generator at the allowable rate of $75.00.
(c), Equipment furnished by operator. The amounts itemized are three-fourths of a month's depreciation at the allowable rate for this equipment.

Item 4, Labor, $670.80, is the gross wages paid per the attached copy of the payroll. Labor classifications and wage rates are those specified in the contract.

Item 5, Supervision, $240.00, is the gross wage paid for supervision at the rate prescribed in the contract.

Item 6, Supplies, $343.93, is correct in amount. It consists of miscellaneous supplies received from several jobbers and was substantiated by invoices. Included in the amount were 300 gallons diesel fuel, 300 gallons gasoline, 2-inch suction hose, 98 feet 2-1/2-inch pipe, 290 feet 2-inch pipe, 200 feet 1-inch pipe, small tools, etc.

Item 9 (c), Workmen's compensation: $147.00 is the advance premium paid. It is correct in amount and allowable under the contract.

The project costs incurred during this period are approved in the amount of $1,487.98. Payment of 75 percent of this amount, or $1,115.98, is recommended.

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/amh

cc 5
AMKoschmann
E278
DMEA Chron.

SMITH and RUGG
Contract Idm - E278
DMA - 2296
April, 1952

NARRATIVE REPORT

1. GENERATOR SET
Installed and operating two pumps.

2. PUMPING
Pump installed along with pump line and electric cable and pumoing started April 8th. Shaft unwatered to bottom, 162 feet, below collar of shaft.

Bulkhead dams installed in drifts each way from shaft on 90 foot level and an additional pump installed.

3. AIR and WATER LINES
Two inch air line installed to bottom.
One inch water line installed to bottom.

4. SHAFT
Rehabilitated to bottom. Some additional work to be done later.
New skids installed 90 foot level to bottom.
About fifteen stull timbers and wall plates put in, 90 foot level to bottom.
Ten to twelve feet of muck and timber mucked out of bottom of shaft.
Sinking started April 25th and six foot advance made to date, making a total depth of 168 feet from collar of shaft.
Two men in shaft and one man on surface comprise total crew.
One additional man was employed for 9 days, cutting timber, etc.
Alternate hoist man used on seventh day to avoid overtime pay.
Two men in shaft are Smith and Rugg - the operators, and although it is necessary to work seven days a week and a good many hours at night pumping, no overtime for these operators is being paid.

5. WATER
The spring flow of water is considerably more than expected, approximately 60,000 gallons in 24 hours. Normal is about 7,500 gallons . No great difficulty in handling this is expected and sinking will continue.

6. MAPS
We believe that a map and illustration may not be necessary for this short period but will be provided at end of May. Copies of maps are being made and are not available as yet.

Joseph M Smith

MONTHLY SUMMARY COST STATEMENT—Continued

Item	Monthly Total	Totals Previously Reported	Totals to Date	For Government Use Only: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(d) Fixtures						
4. Labor[3]	670.80	None		670.80	None	
5. Supervision	240.00	None		240.00	None	
6. Supplies						
(a) Timber						
(b) Explosives						
(c) Repair Parts						
(d) Other	343.93	None		343.93	None	
7. Power						
8. Transportation						
9. Insurance						
(a) Fire						
(b) Public Liability						
(c) Workmen's Compensation	147.00	None		147.00	None	
10. Contract Work						
11. Other (specify)						
Total	1487.98	None		1487.98	None	
Deletions						
Adjusted totals						
Totals previously reported						
Totals to date						

[1] Enter amount paid during month toward total purchase price.
[2] Payments for rental of equipment or prorated depreciation on equipment owned by contractor.
[3] Submit copy of the Social Security form filed under the Old Age Insurance system showing complete wage and salary data or furnish copy of payroll sheet giving same data.

NOTE.—Indicate that portion of supervisory, office, and engineering salaries that is chargeable to this project.

FOR GOVERNMENT USE ONLY

Checked by
Entered by
Approved by R. L. Bolmer
Amount approved for payment 1115.98
Remarks

16—64068-3

Schedule DMA 52*56
June 2, 1952
1115.98

EXPLORATION UNIT COST AND PROGRESS REPORT FOR MONTH OF April, 1952

(Supply Data Below Applicable Only to Your Operations)

Item	Costs					Progress [4]				
	Wages [1] and salaries	Equipment [2]	Supplies	Other [3]	Total	Unit	Units this month	Units previously reported	Units to date	Units authorized by contract (Exhibit A)
Drifting						~~Feet~~			~~none~~	~~515~~
Crosscutting						~~Feet~~			~~none~~	~~125~~
Raising										
Shafts 28.8%	~~259.20~~	~~24.50~~	~~97.68~~	~~41.75~~	~~423.13~~	Feet	6		6	60
Winzes										
Drill holes										
Overburden 58.8%										
Rehabilitation and preparation	~~535.20~~	~~50.72~~	~~202.23~~	~~86.44~~	~~874.59~~					
Geology and geophysics										
Trenching										
Sampling and assaying										
Roads and trails										
Test pits										
Other (specify) Unwatering 12.9%	~~116.40~~	~~11.03~~	~~44.02~~	~~18.81~~	~~190.26~~					
Totals	910.80	86.25	343.93	147.00	1487.98		6		6	700

[1] Prorate supervisory, engineering, and office salaries in proportion to man-shifts of direct labor.
[2] Prorate charges for equipment that is not exclusively for one type of job (such as compressors) against authorized units of work in each category.
[3] Where entries in the "Other" column (above) are more than 25 percent of the total expenditures, a breakdown of this item should be made.
[4] Specify whether feet, cubic feet, acres, miles, etc.

16—64068-3 U. S. GOVERNMENT PRINTING OFFICE

Excerpt from Monthly Report, Region IV, March 21 to April 20, 1952

DMEA 2296 - Rambler Mine (Tungsten), Boulder County, Colorado

Work under this contract was started April 7. Unwatering and rehabilitating of the shaft is in progress.

Excerpt from Monthly Report, Region IV, April 21 to May 20, 1952

DMEA 2296 - Rambler Mine (Tungsten), Boulder County, Colorado

Work under this contract was started April 7. Unwatering and rehabilitating of the shaft is complete and it has been sunk an additional 6 feet.

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

224 New Customhouse
Denver 2, Colorado

March 31, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 4 1952

Memorandum

To: C. O. Mittendorf

From: Executive Officer, Field Team, Region IV

Subject: Contract Idm-E278, DMA Docket 2296, Joseph M. Smith and Charles R. Rugg

This is in answer to your letter dated March 26, 1952 in which you reviewed some of the items in Exhibit A, Contract Idm-E278. Regarding items under "Operating Equipment to be Rented", the diesel generator and centrifugal pump will be used for unwatering the shaft. The sump pump will not be in use until sinking operations have commenced. The hoisting bucket will probably be in use the entire length of the project. The maximum monthly rental for the above items was given, but inasmuch as it was impossible to determine how long it would take to rehabilitate and unwater the shaft, it was not considered advisable to specify the number of months each item of equipment was to be rented. It is believed that the contract is more flexible and auditing would be expedited if the rental of each item of equipment was not limited to a definite number of months. The estimated working time for this contract is 12 months, not 14 months as stated in your letter. Article 3 of Form MF-200 allows 60 days within which to start the project and 14 months from the date of the contract for completion. This allows for 12 months actual working time.

Under "To be Furnished by Operator", the number of months for which depreciation will be charged for each individual item has not been mentioned. The compressor and jackhammer will not be used during the rehabilitation and unwatering of the shaft. We have interpreted Form MF-200 to mean that the maximum allowable rental, purchase price, or depreciation for each item of equipment should be given, but that the total amount of rental or depreciation is an estimate, depending upon the length of time required to do the work.

J. H. East, Jr.

J. H. East, Jr.

Copy retained 400

FILE COPY
SURNAME:

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

Mr. J. H. East, Jr.,
Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: DMA Docket No. 2296 (Tungsten)
Joseph M. Smith and
Charles R. Rugg
Exploration Project Contract Idm-E278

Dear Mr. East:

This will acknowledge receipt of your letter of March 17, 1952, and the enclosed six copies of the subject contract. This contract has been recorded and given the contract No. Idm-E278, and dated March 17, 1952. Copy for the Operator and your files are enclosed herewith.

In reviewing the contract it is noted that some items may require clarification, inasmuch as they involve problems of approving payments and auditing contracts. Your attention is called to the items under the heading "Operating Equipment", on page 1 of Exhibit "A". Under the sub-heading "To be Rented", you have listed certain equipment at specified rental rates per month and the estimated total rental of all such equipment at $1,400.00. There is no indication as to the number of months for which each item is to be rented. The contract is for a period of fourteen months, and if all of the equipment is to be used during the entire operation the total rental would be considerably more than $1,400.00. The same type of information is lacking in Exhibit "A" for the equipment to be furnished by the Operator.

On page 3 under the heading "Rehabilitation and Repairs" you have listed two items, and then have stated "A breakdown of these two items is given under 'Labor and Supplies'". This appears to be misleading, as there is no breakdown under "Labor and Supervision", nor under "Supplies", which can be identified as a breakdown of the costs of the two items under "Rehabilitation and Repairs". It would appear to us that your statement should probably read - The costs of labor and supplies for these two items are included under the headings "Labor and Supervision", and "Supplies" on page 2 of Exhibit "A".

BL

We feel that clarification in future contracts, such as above mentioned, will avoid any misunderstanding in approving payments, or in auditing contracts.

Sincerely yours,

C. O. Mittendorf (for) 3/26

Acting Administrator
Defense Minerals Exploration
Administration

Enclosures (2)

FEJohnson/bih
3/26/52
cc to: Docket
Admr's Reading File
Operating Committee
Messrs. Selfridge
Chambers
FEJohnson

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

224 New Customhouse
Denver 2, Colorado

March 17, 1952

AIR MAIL

Memorandum

To: Secretary to the Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Contract, Docket DMA 2296, Joseph M. Smith and Charles R. Rugg

Enclosed for a contract number are six copies of a contract which have been signed by Joseph M. Smith and Charles R. Rugg, operators, and the Regional Director, Region IV, U. S. Bureau of Mines.

Kindly expedite the processing of this contract because the project involves sinking a shaft 60 feet, as well as drifting from the bottom of the shaft. It is important that the shaft sinking be completed before the spring thaw. Otherwise, the flow of water into the shaft would greatly hamper the operation.

J. H. East, Jr.

J. H. East, Jr.

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 1 8 1952

Dmea 2296

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

224 New Customhouse
Denver 2, Colorado

February 29, 1952

Memorandum

To: Acting Administrator, Defense Mineral Exploration Administration - Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2296, Rambler Mine, (Tungsten), Boulder County, Colorado, Joseph M. Smith and Charles R. Rugg, applicants

Enclosed is the original and one copy of form 3b on DMEA Docket 2296, Rambler Mine, Boulder County, Colorado.

A contract is being prepared in this office. A copy of the final report will be forwarded after the contract is signed.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 7 1952

J. H. East, Jr.

A. H. Koschmann

Enclosures

Come without form 3b.

Region IV case

OFFICE OF THE ADMINISTRATOR

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

224 New Customhouse
Denver 2, Colorado

December 14, 1951

DMEA - 2296

Memorandum

To: Defense Minerals Administration, Attention: Code 210

From: Executive Officer, DMA Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate are DMA Form 3a and Forms MF-100 and MF-103, pertaining to the following application for an exploration loan:

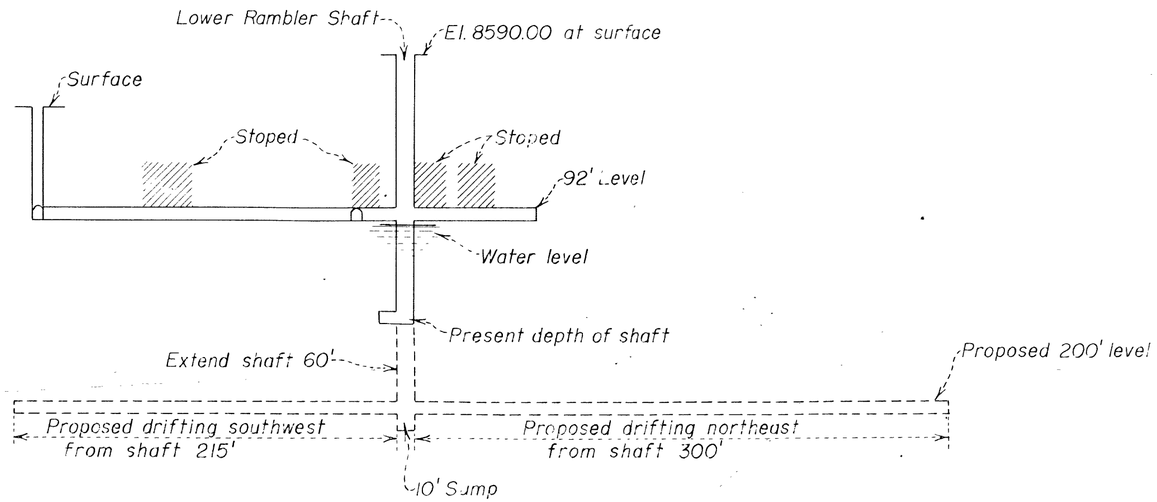
Joseph M. Smith and Charles R. Rugg, Partners,
Rambler Mine, Boulder County, Colorado

Paul T. Allsman, Alternate

ONE COPY OF MF-103 & 100 & ATTACHMENTS SENT TO REGION IV, 12-18-51

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 18 1951

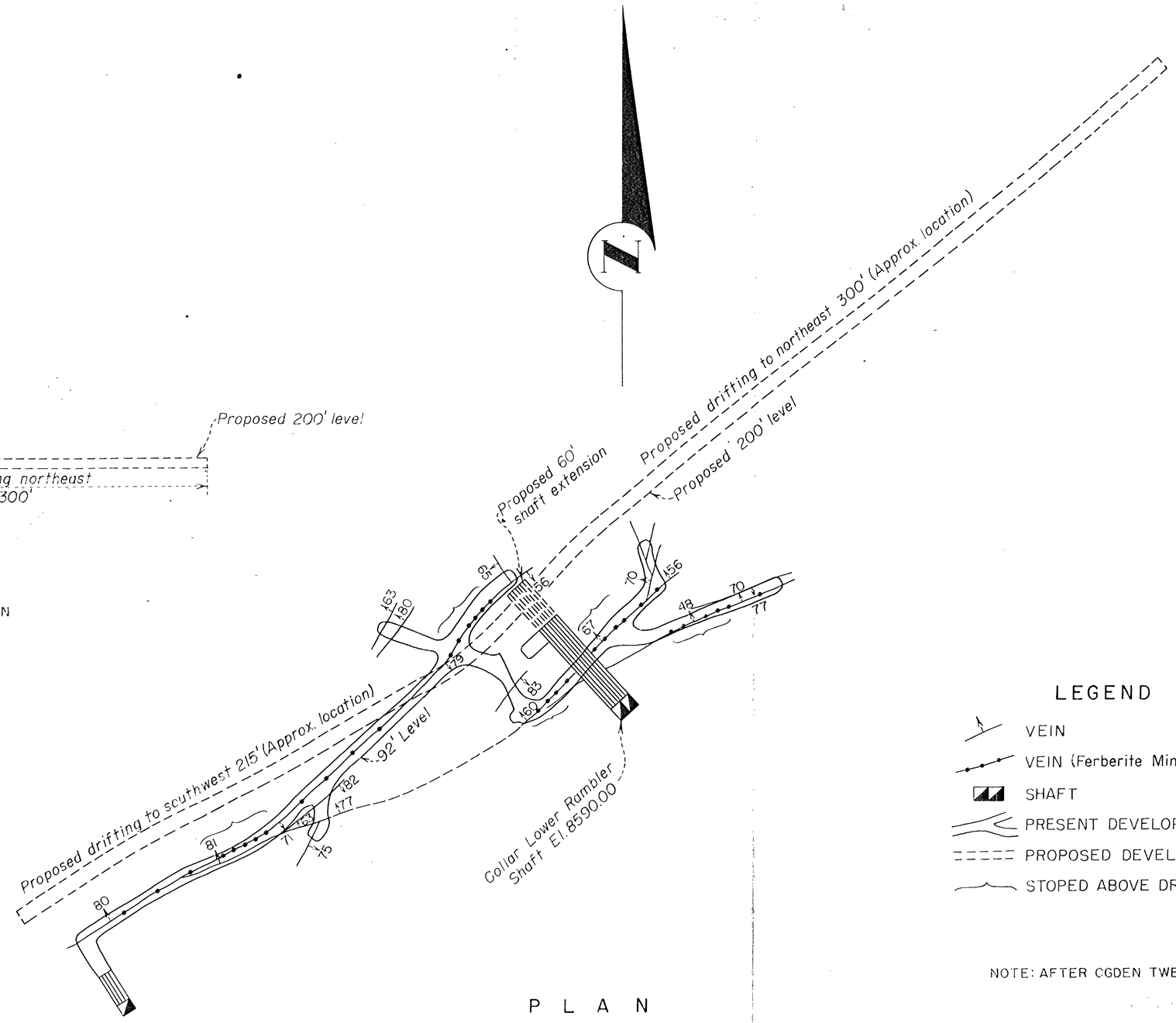


VERTICAL SECTION

SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION OFF THE LOWER RAMBLER SHAFT

60 0 60 120 180

SCALE OF FEET



PLAN

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

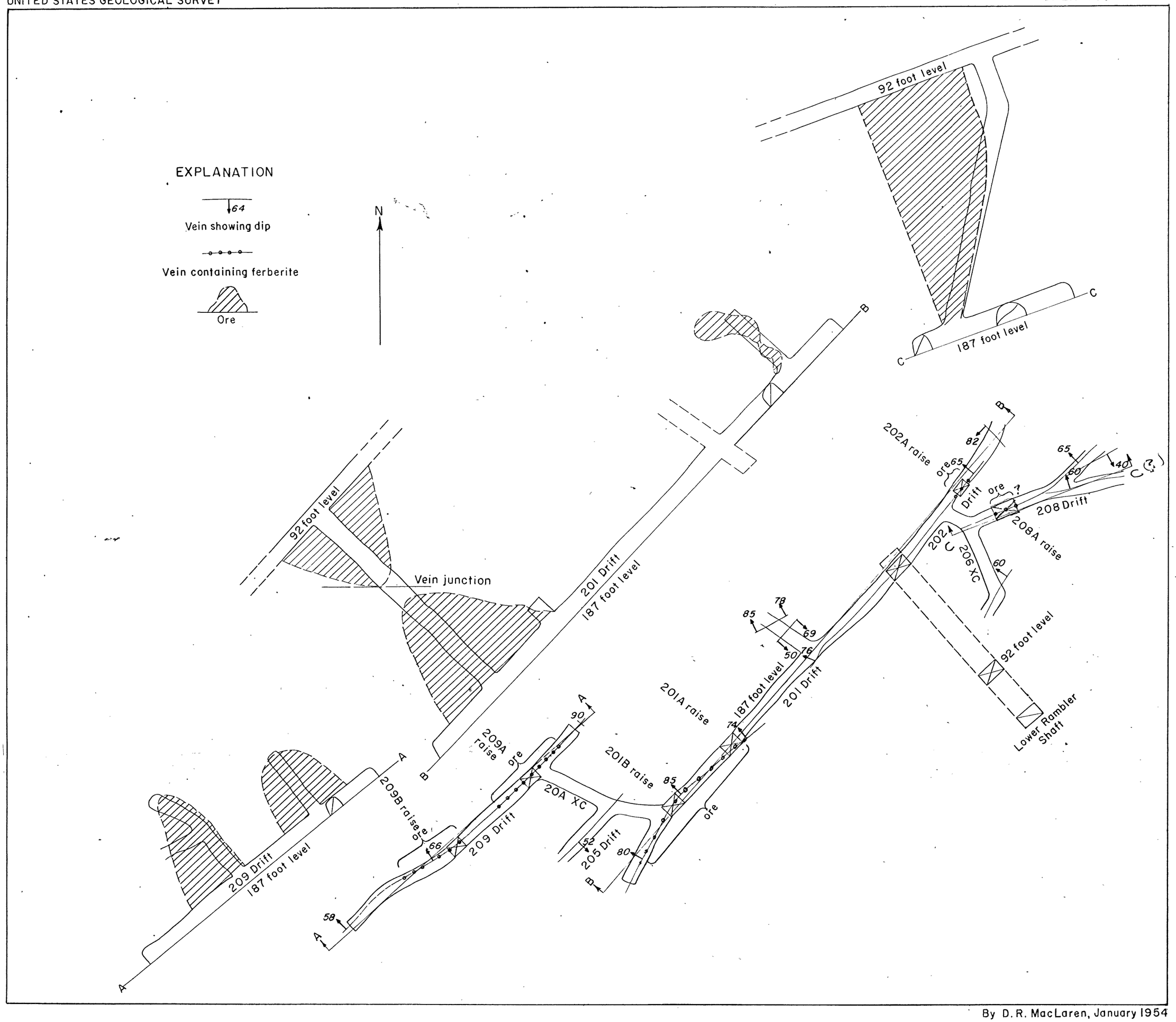
LEGEND

- VEIN
- VEIN (Ferberite Mineralization)
- SHAFT
- PRESENT DEVELOPMENT
- PROPOSED DEVELOPMENT
- STOPED ABOVE DRIFT

NOTE: AFTER OGDEN TWETO U.S.G.S.

COLORADO BRANCH-MINING DIVISION-REGION IV
BUREAU OF MINES

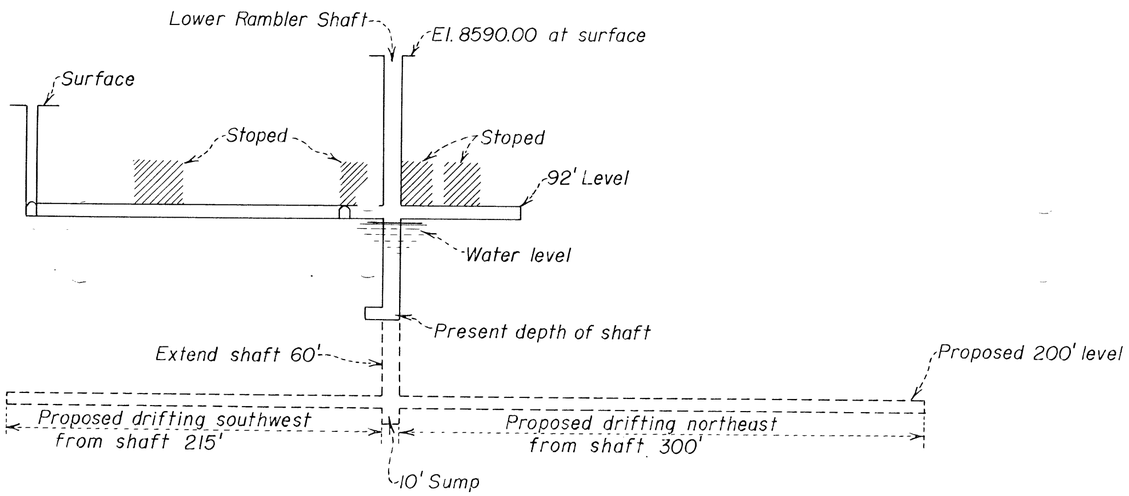
FIG. 2 PLAN & SECTION SHOWING PRESENT AND PROPOSED WORKINGS, RAMBLER TUNGSTEN MINE, BOULDER CO., COLO. DMEA-2296



By D. R. MacLaren, January 1954

Fig 1 PLAN OF 187-FOOT LEVEL OF LOWER RAMBLER MINE, BOULDER COUNTY, COLORADO AND SECTIONS SHOWING ORE DISCOVERED

30 0 30 Feet

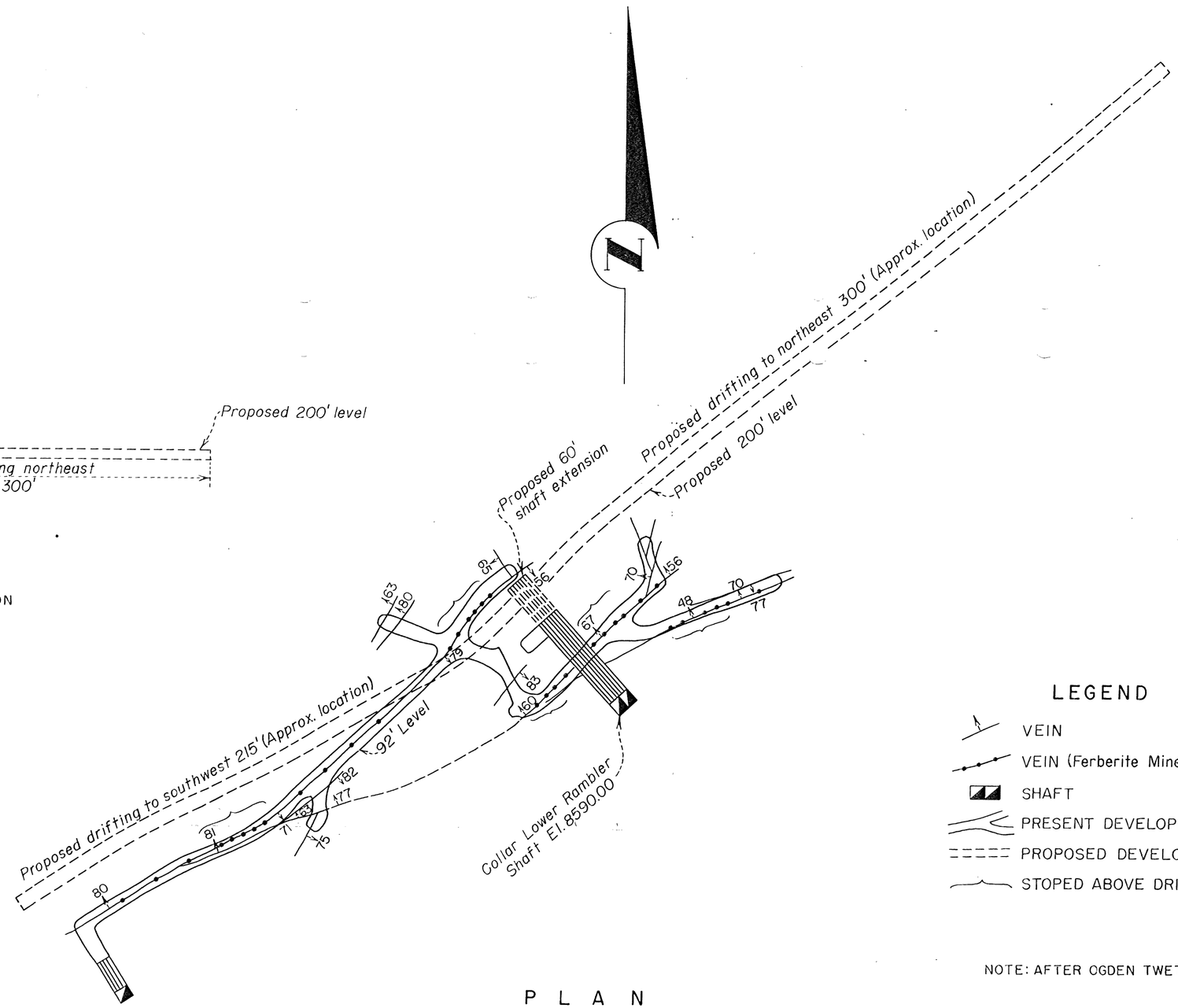


VERTICAL SECTION

SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION OFF THE LOWER RAMBLER SHAFT

60 0 60 120 180

SCALE OF FEET



P L A N

(SHOWING PRESENT WORKINGS & PROPOSED EXPLORATION)

30 0 30 60 90

SCALE OF FEET

LEGEND

- VEIN
- VEIN (Ferberite Mineralization)
- SHAFT
- PRESENT DEVELOPMENT
- PROPOSED DEVELOPMENT
- STOPED ABOVE DRIFT

NOTE: AFTER OGDEN TWETO U.S.G.S.

COLORADO BRANCH-MINING DIVISION-REGION IV
BUREAU OF MINES

FIG. 2 – PLAN & SECTION, SHOWING PRESENT & PROPOSED WORKINGS, RAMBLER TUNGSTEN MINE, BOULDER CO., COLO. DMEA 2296