DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE — Idm-E NO. 621 — DMEA NO. 3066

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- [ ] Withdrawn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
- [x] 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)
- [ ] Interim Field Team Reports
- [x] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] 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. 2 : Royalty material

17863

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Washington office pertaining to Contract Idm-E621, Docket DMEA-3066 (tungsten), dated October 5, 1953, with

Timco, Incorporated
536 Atlas Building
Salt Lake City, Utah

for the purpose of determining the amount of royalty payable to the U. S. Government on sales of minerals from property referred to as the Last Chance Nos. 1 and 2 and Apache Chief claims located in Tooele County, Utah, during the period December 1, 1954, through December 26, 1961.

A certification of discovery or development was issued on March 14, 1955, and, in accordance with Article 6 and Annex I of the contract, royalty is payable on all minerals produced from the land described in Article 2 of the contract for a period of 10 years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review dated June 28, 1954, indicated accepted costs under the exploration contract amounting to $1,825.00 with the Government's contribution on a 75 percent basis being $1,368.75.

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

This review established no sales subject to the Government's royalty subsequent to the period covered by a prior Report of Royalty Review, which found the sales subject to the Government's royalty through November 30, 1954, to be $288.95. The royalty account as of November 30, 1954, was:

Total Royalty Payable	$14.44
Total Royalty Paid	-0-
Balance of Royalty Due	$14.44

As of December 26, 1961, the royalty account of this project was found to be:

Total Royalty Payable	$14.44
Total Royalty Paid	14.44
Balance of Royalty Due	$ -0-

January 4, 1962

H. D. Talbert, OME Auditor

DMEA FORM 6 REFERENCE SLIP

REV. 12-56 DEFENSE MINERALS EXPLORATION ADMINISTRATION

TO:	INITIALS	DATE
1. Mr. Fumich		1-18
2. Mr. Johnson		1/18
3. Mr. Selfridge		
4. Mr. Griswold		
5. 220		
FROM: E. D. Talbert		1/18

FOR: Check items for action desired

____ Action ____ Reply for signature of ____

____ Approval ____ Investigate ____ Surname

____ Comment ____ Recommendations ____ Signature

____ Conference ____ Rewrite ____ File

____ Instructions ____ Your information

REMARKS: Re: DMEA-3066

I suggest that Connors be asked to determine status of lease from landowner, and if satisfied, to inquire of Sec. of State (Nevada) or to corporate status of Operator.

Believe this good idea. Talbert 1/17/62

INT.-DUP. SEC., WASH., D.C.

M25803

STATUS OF PROJECT, SCOPE OF REVIEW
AND REASONS THEREFOR

The exploration project contract states that, as of the date thereof, the Operator was the lessee of the Last Chance Nos. 1 and 2 claims and the Apache Chief claim. An Owner's Consent to Lien executed on September 2, 1953, by Star Dust Mines, Inc., presently of 285 East South Temple, Salt Lake City, Utah, refers to the exploration project contract as being with "Haydn A. Schettler and/or TIMCO, INC." Submitted with the application for exploration aid, as evidence of control of the property, was a 15-year lease and option to purchase agreement between Star Dust Mines, Inc., and Haydn A. Schettler. The agreement included a provision for a down payment against the purchase price by "common stock in a company to be formed by lessee".

The exploration work was performed during December 1953. No production occurred during the exploration work; however, for a limited period during the latter part of 1954, the property was operated by sub-lessees. Sales of the production during this period of operation are covered by a prior Report of Royalty Review. The royalty indicated therein as due the Government was paid during April 1955. The property has not been operated since 1954.

This contract contains the so-called "abandonment" provision. Also, the Owner's Consent to Lien secures payment of the Government's royalty only to the extent "provided for under the terms of said exploration project contract".

The Operator is no longer located at the address shown on the face of this Report of Royalty Review. Its present address is unknown.

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

(1) The property under the contract has been inactive since 1954 and the Operator's present address is unknown;
(2) All production since the date of the contract has been accounted for and proper royalty thereon paid; and
(3) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

MME Form 22
Dec. 60

OFFICIAL FILE COPY
O. M. E
RECEIVED DEC 28 1961

DATE	INITIALS	CODE
		126
		800
		500

DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration

CHECK SHEET OF EXAMINING ENGINEER

Operator's Name and Address

Timco, Inc.

see below

T M Romslo

Contract No. Idm E621 | Docket No. DMEA 3066 (Tungsten)

Prepared by (Signature) | Date December 26, 1961

T. M. Romslo

Yes	No	
		1. (a) Does the Operator stockpile ore subject to royalty repayment?
		(b) If so, is segregation and identification procedure adequate?
		2. (a) Does the Operator commingle production subject to DMEA or OME royalties with exempt production?
		(b) If so, is 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?
		(b) If so, are adequate records maintained on such material to protect the Government's interest?
		4. Are the assay controls in effect adequate?
		5. Does the manner of disposing of production give the Government its fair royalty returns?
		6. Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA or OME royalties?
		7. Does the Operator buy from or sell to other Operators?
		8. Current status of property. (Check one).
		Operating.
	X	Inactive.
		Abandoned.

Nov. 1954 Date of last production if not operating.

Comment on items 1(b), 2(b), 3(b), and 4 to 6, if answer is No:

Mr. Fred A. Cooke, President, Star Dust Mines (lessor), 283 E. South Temple, Salt Lake City, Utah, reported Aug. 3, 1961 that the property has been inactive since operations for a limited period during 1954. No information on hand as to the Operator's present address and whether its lease is still in effect.

84861-60

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DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF FIRST ROYALTY REVIEW

I have reviewed all copies of settlement sheets on file with the Executive Officer, DMEA Field Team, Region III, applicable to the sales of tungsten concentrates for the period October 5, 1953 to November 30, 1954 by

Timco, Incorporated
36 Atlas Building
Salt Lake City, Utah

WSM

produced from property referred to as Last Chance claims located in Tooele County, Utah, under the terms of Contract Idm-E621, Docket No. DMEA-3066.

My review included a tabulation and recomputation of all tungsten concentrate settlement sheets, a summary of which is attached, and made a part of this report. It also included a conference with the Supervising Engineer, Salt Lake City, Utah, Bureau of Mines officer, who is thoroughly familiar with the project.

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

(1) The Supervising Engineer is of the opinion that all ore produced for the period October 5, 1953 to November 30, 1954, for which settlement sheets have been received has been accounted for properly.

(2) The administrative costs 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 net sales of tungsten concentrates under the contract for the period to be $288.95. Royalty on these sales is due the United States Government at the rate of 5%. To date no royalty payments have been received and the total royalty in the amount of $14.44 is due and payable.

Dated February 9, 1955

T. H. Brading, Auditor

Audit Forward

SUMMARY OF CONCENTRATE SETTLEMENT SHEETS
Timco, Incorporated
Contract Idm-B621 Docket DMEX-3066

Purchaser C. W. Jones			TOTAL
Date	9-29-54	11-30-54	
Lot No.	5	7	
Pounds Concentrate	176.5	111	287.5
Tons Concentrate	.08825	.0555	.14375
Assay WO_3	39.09	35.39	37.656
Units	3.449	1.9641	5.4131
Price Unit	$56.74	$57.155	$ 56.89
Gross Payment	$195.70	$112.25	$ 307.95
Deductions			
Sampling	$2.50	$2.50	$ 5.00
Assaying	$7.00	$7.00	$ 14.00
Total Allowable Deductions	$9.50	$9.50	$ 19.00
Net Payment	$186.20	$102.75	$ 288.95
Net Value per Ton	$2,109.92	$1,851.35	$2,010.09
Royalty Percentage	5	5	5
Royalties Due	$9.31	$5.14	$ 14.44
Royalties Paid	--	--	--
Royalties Due	$9.31	$5.14	$ 14.44

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
10/30	Murphy	500
10/30	on leave	500
10/30	Talbert	800
	Selfridge	120
10/31	Folsom	110
	Fumich	100
10/31	JB	220

OCT 31 1963

Timco, Inc.
c/o Mr. Mar Vell Cook, Manager
283 East So. Temple
Salt Lake City, Utah

Re: DMEA-3066 (Tungsten)
Timco, Inc.
Last Chance Claims
Tooele County, Utah
Contract Idm-E621

Gentlemen:

Thank you for returning the completed Form 63's mailed to you on October 15, 1963.

By the terms of the subject Exploration Project Contract, as amended, and the certification of discovery or development dated March 14, 1955, all minerals mined or produced from October 5, 1953, to October 5, 1963, were subject to the Government's royalty as set forth in said contract.

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

Director

FMMurphy/mm
10/30/63

cc: Director's Reading File
Region III w/cy of Form 63 dated 10/15
CA&A Division
Docket
Code 500
Star Dust Mines, Inc., 283 East So. Temple, Salt Lake City, Utah

43683

DOCKET
Surname
Martin
Holliday
Trace
Chamber
Hoffman
Selfridge
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: Timco, Inc.
536 Atlas Building
Salt Lake City, Utah

Pursuant to the provisions of Exploration Project Contract No. Idm-E621, dated October 5, 1953, as amended (Docket No. DMEA 3066), hereinafter called the "contract," between you and the United States of America, hereinafter called the "Government;" to establish and fix the Government's percentage royalty on production and its lien thereon and on the land described in the contract, the Government considers and therefore certifies that a discovery or development from which production may be made has resulted from the exploration work.

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

Tactite, in part scheelite-bearing, has been formed in the Ochre Mountain limestone at its contact with irregular bodies of quartz monzonite. Results obtained from the bulldozer stripping completed under the exploration project have indicated three zones that contain appreciable quantities of scheelite.

THE UNITED STATES OF AMERICA

Dated: March 14, 1955

By C O Mitchenson
Administrator, Defense Minerals
Exploration Administration
Rutledge

cc: Docket
FT, Reg. 3-Denver
Finance Officer
Irving Gumbel, EPS, GSA
Fred Cook, Ibapah, Utah
Code 400-Mr. Martin
Code 800-Mr. Chambers
Code 110-Mr. Johnson
Adm. Read. File

cc: Oper. Committee
J. H. Hedges, USBM
R. Holliday, USBM
T. Kiilsgaard, USGS

FARutledge/ls
3/7/55

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DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Timco, Inc.
536 Atlas Building
Salt Lake City, Utah

pertaining to Exploration Project Contract No. Idm-E621, Docket No. DMEA 3066, including Amendment Nos. 1 and 2, for the month of December 1953, covering a project for the exploration of Tungsten on property known as Star Dust Mines, located in Tooele County, Utah, about 2 miles northwest of Gold Hill.

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

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

The contract provides for payment by the Government on the basis of agreed estimated costs or units of work actually performed.

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

Total cost as billed by Contractor:		$1825.00
Exceptions:		
By DMEA Finance Officer	None	
Herewith	None	None
Total Accepted Cost		$1825.00

The contract calls for a 75 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of One Thousand Three Hundred Sixty-eight and 75/100ths Dollars

- $1368.75 -

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

Date: June 28, 1954

Donald T. Finch

Donald T. Finch, Auditor

Rubin 3/6/54

No. 2

AMENDMENT OF CONTRACT: No. Idm-E521

Contract Docket No. DMEA 3000, dated October 5, 1953, between the United States of America and Timco Incorporated 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(A)(February 1952), caption "Description of the Work", delete the first sentence of beginning with the words "Expose by bulldozing" and in lieu thereof substitute the following sentence:
>
> "Expose by bulldozing the tactite on the quartz-monzonite-limestone contact for a distance of approximately 1500 feet easterly and approximately 500 feet westerly from the westernmost adit."

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

Dated: FEB 5 1954

TIMCO INCORPORATED

By L. D. Gardner
L. D. Gardner, Vice President

UNITED STATES OF AMERICA

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

Seal

No. 1

AMENDMENT OF CONTRACT: No. Idm-8621

Contract Docket No. DMEA 3066, dated October 5, 1953, between the United States of America and Timco, Inc. 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(A) (February 1952), caption "Description of the Work" in the sentence "The bulldozer used is to be an International TD-14 or equivalent thereof" change the words "International TD-14" to read "Caterpillar 8".
>
> Further referring to said EXHIBIT "A", caption "Estimated Costs of the Project" in the sentence starting with "1/ 160 hours bulldozing at $12.50 per hour" change the figures "160" to read "133-1/3" and change the rate figures "12.50" to read "15.00".

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

Dated DEC 24 1953

TIMCO, INC.

By [signature]
Secretary

(Seal)

UNITED STATES OF AMERICA

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

MF-200 (A)
(February 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 1 5 1953

DOCKET NO. DMEA 3066

COMMODITY Tungsten

Idm-E621

Oct Fone 12/2/53 Pbm

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

EXPLORATION PROJECT CONTRACT[1]
(Short Form)

IT IS AGREED this 5th day of October, 1953, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Timco Incorporated, a Nevada corporation
536 Atlas Building
Salt Lake City, Utah

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

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

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Utah, County of Tooele, described as follows:[3] Unpatented mining claims:

CLAIM	RECORDED	BOOK	PAGE
Last Chance #1	Tooele County Recorder's Office	3-A	221-222
Last Chance #2, amended	Tooele County Recorder's Office	3-A	518
Apache Chief, amended	Tooele County Recorder's Office	3-A	222-223

the Operator represents and undertakes:[4]

[redacted]

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

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

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

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

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay seventy-five (75) percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $1,687.50, which is 75 percent of $2,250.00, the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ARTICLE 9. *Changes and added provisions* _____

Executed in sextuplicate the day and year first above written.

Lumco Inc.
(Operator)

By L. D. Gardner
Vice Pres.

THE UNITED STATES OF AMERICA

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

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

F. L. Maxwell

[CORPORATE SEAL]

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

DEPARTMENT OF THE INTERIOR
Division of Administration
Mail
OCT 10 1953

ANNEX I

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

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

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Bureau Mines Administration
RECEIVED
OCT 1 0 1953

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

CLAIM	RECORDED	BOOK	PAGE
Last Chance #1	Tooele County Recorder's Office	3-A	221-222
Last Chance #2 (Amended)	Tooele County Recorder's Office	3-A	510
Apache Chief (Amended)	Tooele County Recorder's Office	3-A	222-223

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

2/ Heyder A. Schettler and/or EINCO, INC.

hereinafter called the "Operator"; and

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

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

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

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

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

4. Changes and added provisions

Dated this 2nd day of September, 1953.

Star Dust Mines Inc [Seal]
By: Fred Cook, Pres. [Seal]
[Seal]

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

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

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

RELEVANT CONTRACT PROVISIONS

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

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

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

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

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

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

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

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

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

BMRA 3066

EXHIBIT A

Description of the Work

Expose by bulldozing the tactite on the quartz-monzonite-limestone contact from the westernmost adit to the end of the contact 1000 feet to the east. Expose the contact along the north side of the dike by bulldozing approximately 8000 square feet of the thin cap of limestone between the main quartz-monzonite intrusive to the north and the dike to the south. The areas to be stripped are outlined on Figure 2 which is attached and made a part of Exhibit A. The bulldozer used is to be an International TD-14 or equivalent thereof. A maximum of 50 samples will be taken in the exposed mineralized areas.

Estimated Costs of the Project

1/ 160 hours bulldozing at $12.50 per hour, including supervision, operator, repairs and any and all other costs incurred in completing the bulldozer work ----------	$ 2,000.00
Bulldozer Drayage ----------	100.00
Assaying 50 samples at $3.00 per sample. A copy of the assay results and billing from assayer must accompany each claim for reimbursement from the Operator----------	150.00
Total Estimated Cost	$ 2,250.00
Government participation at 75%	$ 1,687.50

1/ The entire work constitutes the unit of work.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3066
Metal or Mineral
Date Received 6/8/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name in the form in which you will wish to contract, and your mailing address: Star Mining Corporation
Earl Maxwell, 1095 Carter Drive, Reno, Nevada

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized. See enclosure

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration and excluding any land or interest in land which is not to be included in the exploration project contract. Three mining claims located in the Clifton Mining district, Tooele County, Utah named Last Chance #1, Last Chance #2 and Apache Chief claims under lease.

(*b*) State any mine name by which the property is known. Owned by Star Dust Mines, Inc. Mining

(*c*) State your interest in the land: whether owner, lessee, purchaser under contract, or otherwise Lessee and purchase option

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See photostatic copy attached.

(*e*) If you own the land, describe any liens or encumbrances on it Not applicable.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See page 2 of claims

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which [redacted] wish to explore Scheelite Ore

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 5 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated May 27, 1953

TMCO, INC.
(Applicant)

By Gaylen A. Schetlin
President

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—66551-1

1 (c) Titles, names and addresses of officers:

President:	Haydn A. Schettler 237 4th Ave., Salt Lake City 3, Utah
Vice president:	Leonard D. Gardner 1353 Blaine Ave., Salt Lake City, Utah
Secretary and Treasurer:	F. L. Maxwell 1324 Browning Ave., Salt Lake City, Utah

Refer Par. 3 (f)

Claim	Recorded	Book	Page
Last Chance #1	Tooele County Recorder's Office	3-A	221-222
Last Chance #2 (amended)	Tooele County Recorder's Office	3-A	518
Apache Chief (amended)	Tooele County Recorder's Office	3-A	222-223

Refer Para. 4 (a) Discovery and mining operation.

During 1942 an outcroppingof scheelite ore was discovered on the Last Chance #1 Claim. Upon this discovery a portion of a vein was worked. (Refer to Dwg. #2.) An open pit operation was set up using a slusher to pull the ore into a wooden ore bin that was constructed for that purpose.

The ore body on the Last Chance #1 was worked until, January 1943, two cars of ore were shipped. This body of ore was abandoned, in order to move the mining operation to the EEB Claim of the Star Dust Mining Co., Inc. because a higher grade ore was discovered on the EEB Claim.

Additional Exploration. (Please refer to Dwg. #2 attached.)

In 1943 the vein on the Last Chance #1 was again opened about 300 feet northwest of the ore bin and along the strike of the vein.

Again in 1952 this same vein was again opened by Dr. F. F. Hintze, Ph. D., Consulting Geologist, and Mr. Fred Cook, President of the Star Dust Mining Co. Inc. The 1952 opening was again located along the strike of the Vein and about 500 feet northwest of the ore bin.

This vein has been traced, on the surface outcroppings, by use of a short wave ultra-violet lamp all along the general strike of the vein as indicated by the broken lines of the vein outcropping. (See dwg. #2) From preliminary work completed, it is believed that the vein will vary in width from about a 6 foot minimum to over 20 foot. Surface sampling shows approximately 0.40% minimum WO_3 content of the vein material. This vein should enrich as depth in developed and from veins worked at depth in the surrounding claims, it is reasonable to expect ore to be encountered at depth to run in excess of 2.00% WO_3. A good road crosses the vein at several points, then continues parallel to and about 50 to 75 feet from the vein and terminates at the point where the vein was tapped in 1952, by Dr. Hintze and Mr. Cook.

4 (b)

There is no present production due to the fact, that no refinery is presently operating, close enough to the property, to make the mining and shipping of this grade of ore profitable.

Past production from the Last Chance #1 Claim is as follows:

1942	111,320 lbs.	containing 0.75% WO_3
1943	100,960 lbs.	containing 0.54% WO_3

Attached are copies of the settlement sheets from the two cars of ore shipped from the Last Chance #1 during 1942 and 1943.

It appears from the present vein openings that it can reasonably be expected to develop a probable minimum of scheelite ore, on the Last Chance #1, Last Chance #2 and Apache Chief of 20,000 tons, the grade of ore should be the same or better than that shipped in 1942-43 or about 0.60% WO_3.

The purpose of this application is to explore this vein throughly and prove

4(b) con.

up this ore body both as to tonnage, width, depth and grade. It is entirely probable that both the tonnage reserve of 20,000 tons minimum and minimum grade of .060% WO_3 content can be considerably upped by completion of this proposed exploration. Provided the results of this proposed exploration program are satisfactory, then it is proposed to ship the scheelite ore to the Salt Lake Tungsten Refining Company, (now in the construction phase of a 12,000 unit per month tungsten refinery) located at Salt Lake City, Utah and within the economical shipping range of this mine.

4 (c)

The geologic features of the Last Chance #1, Last Chance #2 and Apache Chief Claims are discribed by Mr. Fred Cook, President of the Star Dust Mines, Inc. as follows:

" The mineralized zone is a bedded vein roof pendant, consisting of a garnitized zone along a quartz monzonite foot wall contact and a limestone hanging wall contact. This mineralized zone ranges from about 6 feet to a maximum of about 20 feet in width and extends more or less the full length of the Last Chance #1, and across the width more or less of the Last Chance #2 Claims. The vein outcrops almost continually along its strike."

It is desired to explore this mineralized zone to prove the grade, width, depth and arrive at an accurate conclusion as to the tonnage the inferred tonnage and other controlling factors, that will influence an accurate decision.

The decision will be made whether or not this ore body has good enough grade of ore, large enough reserves to enter into an open pit operation using heavy equipment such as a Caterpillar HT 6 front end loader (combination of 1 cu. yd. bucket and blade) pit trucks, 315 cu. ft.

4 (c) con.

air compressor, jack hammers, etc., etc.

Provided the decision is in the affirmative, then the operator plans to set up a mining operation to mine and ship a minimum of 100 tons of scheelite ore to the Salt Lake Tungsten Refining Company, daily.

4 (d)

Access Roads

The Star Dust Mines, Inc. property is located 183 miles from Salt Lake City, Utah via Wendover, Utah. Wendover is 127 miles west of Salt Lake City and reached by automobile over US Highways (40-50), a hard surfaced transcontinental highway. After arriving at Wendover Utah you proceed southwest on US 50 a distance of about 29 miles, or until you intersect an improved gravel surfaced road leading to Gold Hill, Utah. At this junction you proceed in a southeasterly direction on the Gold Hill road for about 25 miles, or about 2 miles short of Gold Hill, at this point the road to the Star Dust Mines, Inc. is intersected, (there is a sign with an arrow, with the words "Star Dust Mines, Inc."written on the sign). This mine road is followed about 2 miles northerly until the mine buildgs are reached. All of the above roads are open the year round and the roads are in such good condition, that heavy trucking can be started immeadiately without any improvement necessary. Wendover,Utah-Nevada is the railhead (Western Pacific Railroad Company) The supply point is Wendover, Utah-Nevada. Residence point is Gold Hill, Utah, a distance of only about 2½ miles, accomadations have already been reserved.

4 (e)

Manpower, materials, supplies and equipment are all readily available. Water must be obtained from Goldhill, Utah. Power must be generated at the mine by either deisel or gasoline generators.

5(b)

Please refer to sketch showing Last Chance #1, Last Chance #2 and Apache Chief Claims, detailing proposed work, Dw'g. 2.

(1) It is proposed to expose the full width of the scheelite ore vein on the Last Chance #1 and Last Chance #2 claims. This length is estimated to be about 2500 feet. This work will be accomplished by the use of a Caterpillar DT6 or DT8 bulldozer.

(2) Cross cut vein at points 1 thru 8. Each adit crosscut estimated to be 50 feet long and 5 by 7 feet in width and height, respectively.

(3) Nearly vertical churn or diamond drill along vein at points 9 thru 19. Estimated footage 1000 feet.

5(c) Refer to basic report form.

5(d)

Property will be worked by contract. Mr. G. A. Hokanson, 760- 9th Ave., Salt Lake City, Utah has been contacted and is willing to take over this operation. Mr. Hokanson has worked as tunnel superintendent for Utah Construction Co., also as mine superintendent on various lead, silver, zinc and uranium properties throughout the west

6 <u>Estimate of Costs.</u>

(1) Stripping off overburden from vein in order to determine its length and width, by bulldozer.

Cost estimate 150 hours X $16.50 per hour.	$2475.00
(2) Driving 8 crosscut adits, each 50 feet long, 5 feet wide x 7 feet high.	
Cost estimate $30.00 per lineal foot or,	
8 x $1500.00	12000.00
(3) Nearly vertical churn or diamond drill along vein at critcal points 9 thru 19, to determine depth of ore.	
1000 feet of drilling x $8.00 per foot.	8000.00

6 (Con.)

(4)	Engineering 5 mos. at $140.00 per mo.	$ 700.00
(5)	Assaying, 100 assays at $3.00 each.	300.00
(6)	Supervision 5 mos. at $500.00 per mo.	2500.00
(7)	Bookkeeping 5 mos. at $50.00 per mo.	250.00
(8)	Contingencies at approx 15.0%	3775.00
	Total	$30000 .00

6 (a) Independent contracts

Work will be contracted on above basis.

6 (b) Labor, Supervision, Consultants

Engineering			$ 50.00 per day
Supervision			500.00 per mo.
Labor:	Union	Class	
	AFL	Bulldozer operator	$1.87½ to 2.40 per hour
	CIO	Miners (underground)	14.36 per day
	UMWA	" (open pit)	12.48 per day
	CIO	Muckers	1.72 per hour
	AFL	Truck drivers under 3 yds.	1.65 per hour
		over 3 yds.	1.70 per hour
Geological Consultants			75.00 per day

6 (c) Operating Materials and Supplies

There will be no operating materials or supplies because job will be contracted.

6 (d) Operating equipment:

1- HM6 Caterpillar 1 cu. yd. front end loader (rental purchase basis)	$ 700.00 per mo.
1- 315 cu. ft. deisel air compressor (rental purchase basis)	400.00 per mo.
2- Jackhammers, hoses, pipe and accessory equipment (rental purchase basis)	150.00 per mo.

The above equipment will be furnished to contractor by the operator at no cost to contractor.

6 (e) Rehabilitaion and Repairs:

None.

6 (con.)

6(f) New Buildings, Improvements, Installations:

None.

6(g) Miscellaneous:

Cost of repairs- unknown

Analytical work. Contract at $3.00 per assay

Accounting work. Contract at $50.00 per month

	Per $100.00 payroll
Workmens Compensation Insurance	$ 3.73
Occupational Disease Insurance	.58
Employees Tax & Unemployment Compensation	2.70
Old age benefits	1.50
Total	$ 8.51

6(h) Contingencies:

Approx 15% of total calculated cost $26,225.00 or $ 3775.00

7 (a) Yes

7 (b) See basic application form

By use of company funds and equipment on rental to company.

Additional Notes:

Approximately 40 cars of scheelite ore amounting to some 2400 tons, more or less have been shipped to date from the Star Dust Mines, Inc. property. This ore has ranged from high grade 40 to 50% WO_3 down to 0.32% WO_3 content.

Both Dr. M. N. Shaw, Ph.D., mining and metallurgy and Mr. Wm. Mac A. Story, B.S. Geology are directors of Timco, Inc., and have invested money in this firm.

Dr. Shaw is a vice president of Minerals Engineering Co., Grand Junction, Colorado, and is presently in charge of the construction of the Salt Lake Tungsten Refinery, now being constructed by the Minerals Engineering Co. Dr. Shaw expects to have the tungsten refinery

Additional Notes (con.)

in operation and ready to accept tungsten concentrates on or about August 15, 1953.

Mr. Story is part owner of the H M & S Milling Co. Their mill is located at Salt Lake City, Utah and about 200 yards south of the tungsten refinery now being constructed by Minerals Engineering Co. The H M & S Milling Co. completed in August 1952 a campaign milling in excess of some 20,000 tons of tungsten bearing ores for the Wah Chang Co., New York City, N. Y. These ores originated from the Metal Reserve Co's stockpile accumulated at Salt Lake City during the second world war.

Both Dr. Shaw and Mr. Story have inspected the Timco, Inc. tungsten claims and are satisfied that chances of developing a sizeable commercial body of low grade scheelite ore (0.40%) and above are good. Timco, Inc., plan to ship any ore developed to H M & S Milling Co. for concentration, thence to Salt Lake Tungsten Co's refinery as soon as the refinery is in position to accept concentrates.

(C O P Y)

Contract No. TO 16

METAL RESERVE COMPANY
Acting by and through
United States Vanadium Corporation
Salt Lake City, Utah

Tungsten Ore Settlement Sheet

Date December 30, 1942 Shippers Lot C Our Lot No. 247

Bought from: Star Dust Mines, Inc.

Shipped from: Gold Hill, Utah Date December 19, 1942 Receiving Slip No. 365

Sampled by: Utah Ore Sampling Co. Report Date Dec. 14, 1942 Report No. 1658

Assayed by: Union Assay Office Inc. " " December 14, 1942 Report No. 59855

Settlement basis $30.00 Base price less 15% less $3.00 per ton milling and $2.00 per unit WO_3.

Car No. WP 5999 Gross 159180 lbs. Tare 47860 lbs. Net Wt. 111320 lbs.

ASSAYS		Moisture 2.8%	3116 lbs.
Union Assay Office Inc	0.75	Dry Weight	108204 lbs.

Dry Tons 54.102 X Settlement Assay 0.75% Total Contents 40.58 Units

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SETTLEMENT

Total contents paid for 54.102 tons X .6375 Units per ton 34.49 units
(85% of total WO_3 content)

34.49 units @ $30.00 $1034.70

Less treatment charges

$3.00 per ton milling
(0.75 units @$2.00 $1.50 per ton chemical plant
54.102 tons X 4.50 total treatment charge 243.46

Net value $ 791.24

Deductions Advance

Freight $126.85

Umpire

Total Deduction $ 126.85
Net Settlement $ 664.39

For freight calculation
Net value per wet ton $14.22

(C O P Y)

Contract No. TO 16

METAL RESERVE COMPANY
Acting by and through
United States Vanadium Corporation
Salt Lake City, Utah

TUNGSTEN ORE SETTLEMENT SHEET

DATE: January 15, 1943 SHIPPERS LOT D OUR LOT 286

BOUGHT FROM: Star Dust Mines, Inc.

SHIPPED FROM: Gold Hill, Utah DATE: January 6, 1943 RECEIVING SLIP NO. 412

SAMPLED BY: Utah Ore Sampling Co. REPORT DATE: Jan. 4,1943 REPORT NO. 1766

ASSAYED BY: Union Assay Office Inc. " " Jan. 4, 1943 " " 60154

Settlement basis $30.00 base price less 15% less $3.00 per ton milling and $2.00 per unit WO_3.

CAR NO. WP 5945 GROSS: 148,700 TARE: 47740 NET WEIGHT: 100,960 lbs.

AS AYS	MOISTURE 2.8%		2,826 lbs.
Union Assay Office Inc.,	0.54%	DRY WEIGHT:	98,134 lbs.
DRY TONS: 49.067	X 0.54%	Total Contents	26.60 Units

SETTLEMENT

Total contents paid for: 49.067 tons X 0.459 22.52 units
(85% of total WO3 content)

22.52 units @ $30.00 $ 675.60

LESS TREATMENT CHARGES

$3.00 per ton milling

0.54 X $2.00 1.08 per ton chemical plant
49.067 tons X $4.08 total treatment charge 200.19

NET VALUE $ 475.41

DEDUCTIONS:

ADVANCE

FREIGHT $98.46

UMPIRE

TOTAL DEDUCTIONS $98.46
NET SETTLEMENT $376.95

For freight calculation, net value per wet ton $9.42

TELEPHONE 3-3302

Hand Sample Serial 41260

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
A. C. SELBY, Vice-Pres. & Treas.
A. C. SELBY, JR., Secretary

Salt Lake City 10, Utah

Mine H.A.Schettler

RESULTS PER TON OF 2000 POUNDS

April 7,1953

NO.	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent Wet	~~COPPER~~ Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
				WO_3								
				0.54								

Samples taken from Last Chance #1 Claim, Star Dust Mines, Inc. Tooele County, Utah. Location from cross cut adit located about 500' northwest of ore bin on Last Chance #1

Remarks

Charges $ 3.00

J. Sadler

TELEPHONE 3-3302

Hand Sample Serial 41610

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
A. C. SELBY, Vice-Pres. & Treas.
A. C. SELBY, JR., Secretary

Salt Lake City 10, Utah

Mine H.A.Schettler

RESULTS PER TON OF 2000 POUNDS

May 4,1953

NO.	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent Wet	~~COPPER~~ Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
				WO_3								
No No				0.76								

Samples taken from Last Chance #1 Claim, Star Dust Mines, Inc. Tooele County, Utah. Location from cross cut adit located about 500' northwest of ore bin on Last Chance #1

Remarks

Charges $ 3.00

J. Sadler

TELEPHONE 3-3302

Hand Sample Serial 41372

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
A. C. SELBY, Vice-Pres. & Treas.
A. C. SELBY, JR., Secretary

Mine H.A.Schettler

RESULTS PER TON OF 2000 POUNDS

April 13,1953

Salt Lake City 10, Utah

NO.	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent Wet	~~COPPER~~ Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
				WO_3								
1				0.34								

Samples taken from Last Chance #1 Claim, Star Dust Mines, Inc. Tooele County, Utah. Location from cross cut adit located about 800' northwest of ore bin on Last Chance #1

Remarks

Charges $ 3.00

J. Sadler

MINING OPTION AND LEASE

THIS AGREEMENT, made and entered into this 24TH day of April, 1953, by and between STAR DUST MINES, INC., A Utah corporation, hereinafter called lessor, and Haydn A. Schettler, of Salt Lake City, Utah, hereinafter called lessee,

WITNESSETH :

In consideration of the royalties to be paid by lessee to lessor as hereinafter set forth and the covenants and agreements herein expressed to be faithfully kept and performed, it is hereby agreed by the parties hereto as follows :

Lessor owns the mining claims and property hereinbelow listed, situate and being in the Clifton Mining District, Tooele County, Utah, named and described as follows, to wit :

Claim	Recorded	Book	Page
Last Chance #1	Tooele County Recorder's Office	3-A	221-222
Last Chance #2 (amended)	Tooele County Recorder's Office	3-A	518
Apache Chief (amended)	Tooele County Recorder's Office	3-A	222-223

NOW, THEREFORE, in consideration of the premises and the payment of One Hundred Dollars ($100.00) by lessee to lessor, receipt whereof is hereby acknowledged, and for other good and sufficient consideration, including the covenants and agreements herein made by lessee to be kept and performed, lessor has leased and let and by these presents does lease, let, and turn over to lessee, his heirs and assigns, all of its right, title, claim and interest in and to all of above described lode mining claims, upon the following terms and conditions, to wit:

I

On all of the net proceeds from the sale of ores and concentrates mined and taken from the said claims by lessee, he shall pay to the lessor a royalty of fifteen percent (15%), and shall be payable as follows:

a. Lessee shall furnish lessor duplicate settlement sheets and a list of all ore sales made each month and shall pay royalties on all net returns from ore sales made on or before the 20th day of each calender month for the ores and concentrates produced and sold during the immediately preceding calendar month during the life of this agreement. Except as hereinafter provided, lessee shall send all royalty payments accruing hereunder to Walker Bank & Trust Company for the credit of lessor, accompanied by a statement showing the amount of the proceeds and all deductions entered in the calculations of the royalty so paid.

b. Both lessor and lessee agree that lessee shall pay to lessor an "Advance Royalty Fund" of $2,000.00 upon the execution of this lease by transfer of ownership papers, when such ownership papers are available to lessee and immeadiate delivery of possession by lessee to lessor of a new 1953 Willys-Overland one ton pickup truck, Motor No. IT- 39384, Serial No. 18427, receipt of which is hereby acknowledged by the lessor, and lessee warrants he has paid $1,000.00 down on the total purchase price of said truck. Payment of the full purchase price by lessee shall constitute full payment of the "Advance Royalty Fund" to lessor.

c. Payment of royalties on initial ore shipments shall be made by lessee to lessor as follows:

(1) Fifty percent (50%) of each royalty payment shall be deducted from the said "Advance Royalty Fund" of $2,000.00 until said fund is exhausted; and

(2) Fifty percent (50%) of each royalty payment shall be made in cash until said "Advance Royalty Fund" hereinabove described is exhausted.

d. Lessee agrees to issue lessor $7,500.00 of common stock in a company to be formed by lessee. Said $7,500.00 shall apply as downpayment against agreed purchase price of $100,000.00 for said property.

e. It is mutually understood and agreed, that "Net Proceeds" shall be the total price obtained from the sale of the ores and concentrates to any purchaser thereof, less the costs of sampling assaying and transportation of the ores and/or concentrates from the mines to any mill and any cost incurred in the sale of the concentrates; and any penalties, deductions or charge-offs made by the purchaser, as shown on the settlement sheets for all such sales, and exclusive of all cost of mining and prospecting or development work. Transportation costs for moving the concentrates from any custom mill to a market and the cost of milling the ores. to produce concentrates that are salable are to be deducted before the royalties above mentioned are calculated.

I I

Lessee shall have a period of Ninty Days (90) in which to take samples for assay and mine ores from the above claims or take dump samples for tests and experiments on such ores, before commensement of actual mining operations and any ores so taken or mined from the above claims shall be subject to the above royalty payment provisions.

Upon the completion of such experimental tests, lessee shall commence to mine ores from the said claims, if such test work shows to his satisfaction that ores can be mined, transported to a custom mill and milled to produce salable concentrates, so as to show a profit sufficient to warrant the operations so undertaken by lessee.

Lessee agrees to perform at least 75 man shifts of labor per month in mining or development work upon the said claims from and after the period of 90 days mentioned above, unless prevented by strikes, lockouts, acts of God or other causes beyond his control. Lessee shall at all times carry on his operations in a workmanlike manner to preserve all mine openings from caving by use of timbers or other materials.

III

This lease shall run for a period of Fifteen years (15) from the above date, subject to performance by lessee of the terms hereof; and in the event lessee continues to operate the above claims as herein provided to the end of the said fifteen years and is at that time mining and producing ores from said claims for sale; or is sending ores to a mill and is producing concentrates at that time , then this lease shall remain in force for an additional period of fifteen (15) years, and as long thereafter

as ores and/or concentrates are being produced and sold from any of the said claims and royalties are being paid hereunder.

IV

Lessor or its representatives shall have free ingress and egress to and from the said claims at all reasonable times for the purpose of inspection of the mine and workings, at its sole risk and expense, without liability or obligation of lessee and without interference with his operations.

V

Lessee shall keep book accounts of all ores mined and shipped from the said claims, and of all ores milled and concentrates produced and sold hereunder. And he shall keep records of all costs of transportation, milling of ores, assays and transportation of concentrates and any other items of cost entering into the calculations of royalty payments to lessor's account. And all such records shall at all times within regular working hours be open to inspection by lessor or its representatives at lessee's office or place of business.

VI

Lessee shall carry on his operations in accordance with all laws and regulations of the State of Utah and of the United States. He shall carry Workmen's compensation or other approved form of insurance for the protection of all employees. And lessee agrees to hold lessor harmless and free from all liability for accidents or damages arising from his operations under this lease. But lessor or its representatives while on the property or while going to or from the leased premises shall not claim or charge damages for any accident or loss which might happen or arise in connection with its visits and inspections.

VII

It is agreed by the parties hereto, that all taxes levied on ores extracted from the above claims by lessee and transported to a mill and there milled to produce concentrates for sale hereunder; and all taxes levied on the sale of concentrates, or on any minerals produced from the said claims hereunder, shall be paid by the parties hereto proportionately as their respective interests appear. And lessee shall have the right to pay all of such taxes when they become due and payable and deduct lessor's share from its royalties earned or accruing hereunder, whenever settlements are made and statements are rendered by lessee to lessor or its depositary.

Lessee shall pay all taxes on the claims and property hereby leased to him, and upon all buildings or structures he may place thereon while operating hereunder.

VIII

Lessee shall post the premises with notices of non-liability of lessor for its protection against any claims or liens that might arise out of lessee's operations on said claims. And lessee agrees to pay for all materials ordered or purchased by him for use in his mining operations and to settle all bills promptly when they become due.

IX

Lessee shall do and perform all annual assessment work on

all unpatented mining claims hereby leased and he shall file proof of labor thereof in accordance with existing laws and regulations. It is understood, that such work and filing shall be done and made on or before July 1, 1955 and upon the corresponding date of each year thereafter, while this lease is in full force and effect.

X

It is hereby agreed by the parties hereto, that lessee shall not be charged with time during periods when markets for tungsten are unfavorable and do not permit him to operate at a profit in accordance with the plan for development and exploitation of the said claims contemplated herein, but he shall do all possible to find a market and produce and sell tungsten ores or concentrates hereunder.

XI

It is agreed, that this lease is granted and made upon the express condition that lessee shall do and perform all of its terms and conditions. If there occurs any default on the part of lessee in the performance of the said terms and conditions and lessor complains or notifies lessee thereof in writing, lessee shall within thirty (30) days from the date of receipt of such notice take steps to correct the conditions complained of or the default so charged shall work a forfeiture of this lease by written notice from lessor, at lessor's option. But lessee shall not be charged with defaults under any conditions of Force Majeure, such as strikes, lockouts, lack of essential materials, accidents or other causes beyond his control.

XII

Lessee shall have the right at any time when not in default in payments of royalty or in settlement of accounts arising from his operations hereunder to terminate this lease and surrender all of the ~~said claims back to~~ lessor. In the event of any such termination or surrender of this lease, lessee shall have the right to remove any of the materials, equipment or structures placed upon the leased premises by him, except permanent structures essential to the mining properties. Lessee shall give written notice to lessor at least 30 days prior to the time of his intended forfeiture or surrender of the leased premises.

Lessor shall have the right to purchase from lessee any materials or equipment, structures or property belonging to lessee for the fair second hand value or salvage value thereof within the said period of thirty (30) days.

XIII

Lessee shall during the term of this lease, or the term of renewal, if renewed, have the option to purchase the leased premises for the agreed purchase price of $100,000.00 and lessor agrees that all royalties paid by lessee to lessor up to the time of exercising said option are to be applied to and credited to the payment of the said agreed purchase price.

XIV

Lessor and lessee agree that wherever the terms lessor or lessee are used herein, it includes their heirs, executors, administrators, grantees, trustees and assigns.

TO HAVE AND TO HOLD, unto the said lessee, his heirs and assigns for the term of fifteen (15) years from the above date and for the time of any extension or renewal hereof, subject to the performance of all of the terms and conditions herein set forth to be kept and performed by said lessee, his heirs or assigns.

IN WITNESS WHEREOF, the parties hereto have executed this agreement on the day and date first above written.

STAR DUST MINES, INC.

ATTEST : LESSOR: Fred Cook
Fred Cook, President.

Mer Vell Cook
Mer Vell Cook, Secretary.

LESSEE: Haydn A. Schettler
Haydn A. Schettler,
237 4th Ave.,
Salt Lake City 3, Utah

ACKNOWLEDGMENT

STATE OF UTAH)
) SS
COUNTY OF SALT LAKE)

On this 24th day of April, A.D. 1953, personally appeared before me Fred Cook and Mer Vell Cook, who being by me duly sworn did say, each for himself and herself : That he, Fred Cook, is the president of Star Dust Mines, Inc. and she, Mer Vell Cook, is the secretary of said corporation and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution passed by the Board of Directors of said corporation and they each acknowledged to me that said corporation executed the same and that the seal affixed is the seal of said corporation.

Notary Public, residing at Salt Lake City, Utah
My commission expires : [illegible]

STATE OF UTAH)
) SS
COUNTY OF SALT LAKE)

On this [illegible] day of April, A. D. 1953, personally appeared before me, Haydn A. Schettler, who is personally known to me to be the person who signed the foregoing instrument and acknowledged to me that he executed the same.

~~Notary Public, residing at Salt Lake City~~, Utah
My commission expires: [illegible] 1953

Docket

PROJECT SUMMARY REPORT

February 25, 1955

By: A. G. Keating

1. DMEA Docket No. 3066 (Tungsten)
Contract No. Idm-E621
Last Chance Claims
Tooele County, Utah

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 9 - 1955

Timco Incorporated (Hayden A. Schettler, President)
536 Atlas Building
Salt Lake City, Utah

Operator's Property Rights - Lessee

Lease Agreement dated 4/24/53.
Owner's Consent to Lien - dated 9/2/53.
(Star Dust Mines, Inc.)

See also Summary by Martin - 3.7.55

2. Contract: Dated 10/5/53 on (Form MF-200A, February 1952) - to be completed in 3 months.

Work Authorized:

Bulldozing - 160 hrs. @ $12.50 per hr., including supervision, operator, repairs and all other costs incurred in completing the bulldozer work	$ 2,000.00
Bulldozer drayage	100.00
Assaying 50 samples @ $3.00 per sample. A copy of the assay results must accompany claim for reimbursement	150.00
Total estimated cost	$ 2,250.00
Government's participation @ 75%	$ 1,687.50

Amendments:

No. 1 - dated 12/24/54, effective as of date of contract.
Under "Description of the Work" change bulldozer to be used from "International" T.D.14 to "Caterpiller 8".
Under estimated costs of the project change 160 hrs. bulldozing @ $12.50 per hr. to 133-1/3 hrs. @ $15.00 per hr. No increase in cost of project.

No. 2 - dated 2/5/54, effective as of date of contract.
Under "Description of the Work" delete "Expose by bulldozing" and substitute. "Expose by bulldozing the tactite on the quartz monzonite-limestone contact for approximately 1,500 ft. easterly and approximately 500 ft. westerly from the adit.

Contract Continued:

Work Completed: December 1953.

Stripping with bulldozer - 115 hrs. @ $15.00 per hour	$1,725.00
Drayage	100.00
Total cost of project as per Operator's report	$1,825.00

3. Audit Certificate: Dated 6/28/54

Total cost as billed by Operator	$1,825.00
Exceptions - none	none
Total accepted cost	$1,825.00
Government's participation @ 75 percent	$1,368.75

4. Certification dated:

Field Team estimate of ore reserves:

Block	I	inferred	300	tons	containing	0.20	percent	WO_3
"	II	"	320	"	"	0.365	"	"
"	III	probable	900	"	"	0.25	"	"

1,520 tons containing 0.264 percent WO_3

Operator's estimate of ore reserves -

Probable 4,000 tons containing 0.515 percent WO_3

From October 5, 1953 to November 30, 1954 total net sales of concentrates amounted to $288.95 with royalty due of $14.44.

5. Comments:

The rock of the project area consists principally of limestone intruded by quartz-monzonite. A zone of scheelite bearing tactite from 1 to 6 feet thick occurs along this contract. The tactite is a dark brownish-red garnetized rock in which scheelite is sporadically diseminated with occasional concentration of ore in pods. Intermittant mineralization could be traced along the contact zone for some 2,500 feet.

Comments Continued:

In 1942 tungsten was discovered on the Last Chance No. 1 Claim of the project property and a year later similar mineralization was found in an adit about 300 feet to the northeast. During 1952 from open pit operations two shipments of ore were made totalling 55.66 tons assaying 0.54 percent WO_3, probably hand sorted. No previous production has been reported.

The project contract work called for stripping along the contact, 1,500 feet easterly and 500 feet westerly from the main adit. Work completed resulted in stripping 1,300 feet east and 700 feet west of the adit. This exposed some 300 feet of irregularly distributed tactite bodies to the west varying from 6 inches to 4 feet thick. About 400 feet east of the adit a larger single body of tactite was exposed. The scheelite mineralization was spotty, widely disseminated and assay values erratic, making it difficult to properly estimate ore reserves.

The data so far developed indicates that the project is not of sufficient merit to warrant further exploration.

A. G. Keating
A. G. Keating

cc to: Docket (original)
Admr. Reading File
Mr. Martin
Mr. Keating
Mr. Johnson

[X] Audited

[X] Certified

Name Timco Incorporated

State Utah

WORK ANALYSIS SHEET - DMEA PROJECT

Analysis as of Feb. 25, 1955
Incl. Voucher for 12 - 1953

Commodity Tungsten

[ ] Actual Cost

[X] Agreed Unit Costs

Docket No. 3066

Idm-E No. 621

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting					
Raising					
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation - Bulldozer stripping 133-1/3 hours		$2,250.00	115 hrs.	$1,825.00	$1,825.00
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)					
Totals		$2,250.00		$1,825.00	$1,825.00

Prepared by A. G. Keating

71626

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

OFFICIAL FILE COPY
O. M. E
RECEIVED OCT 2 1963

DATE	INITIALS	
10-2		100
10/2		110
		~~120~~
10/3		800
		500
~~10/25~~		
		220

September 27, 1963

Memorandum

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

From: Acting Field Officer, OME, Region III

Subject: DMEA-3066 (Tungsten)
Contract Idm-E621
Timco, Inc.
(Last Chance Claims)
Tooele County, Utah
FINAL INSPECTION OF CERTIFIED CONTRACT

A Report of Royalty Review dated January 4, 1962 shows that as of December 26, 1961, no royalty was due on production from the subject property. Also, that the Operator's address was unknown. Later information concerning the Operator and the property follows:

1. The State of Nevada revoked the Operator's charter the first Monday of March 1956.

2. The Operator's lease with the Star Dust Mines, Inc., the lessor, was cancelled for "non-performance" in 1960.

3. Information furnished on Forms MME 63 by officers of the Star Dust Mines, Inc. indicated that there was no production from the property from December 26, 1961 to May 6, 1963.

4. Mr. Fred A. Cook, President of the Star Dust Mines, Inc., died in 1962. His wife, Marvell Cook, 283 East South Temple, Salt Lake City, Utah, has since been the corporation's manager. She recently told an OME representative, that the property has been idle since May 6, 1963, and that no change is anticipated

dong

in the status of the property to October 5, 1963, the termination date of the subject contract.

5. An employee of the U.S.B.M. who is well informed about the property, recently reported, that there has been no production from the property since 1954, and that no production from the property in the near future is expectable.

It is recommended that the contract's accounts be closed as of October 5, 1963.

Hugh M. Connors

TMR

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
10/30	Murphy	500
10/30	on leave	500
10/30	Talbot	800
	Selfridge	120
10/31	Johnson	110
"	Frost	100
		220

OCT 31 1963

Star Dust Mines, Inc.
283 East So. Temple
Salt Lake City, Utah

Re: DMEA-3066 (Tungsten)
Timco, Inc.
Last Chance Claims
Tooele County, Utah
Contract Idm-E621

Gentlemen:

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

This correspondence relates to the Owner's Consent to Lien, signed by Mr. Fred Cook, president of your corporation, on September 2, 1953, under the Defense Minerals Exploration Administration program.

Sincerely yours,

George Fumich, Jr.

Director

Enclosure

FMMurphy/mm
10/30/63
cc: Director's Reading File
Region III
Docket
Code 500

43683

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

October 15, 1963

Re: DMEA-3066 (Tungsten)
Timco, Inc.
Last Chance Claims
Tooele County, Utah
Contract Idm-E621

Mr. Mer Vell Cook, Manager
Timco, Inc.
283 East So. Temple
Salt Lake City, Utah

? lease cancelled 1960

Dear Sir:

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,

F M Murphy

F. M. Murphy, Acting Chief
Division of Minerals

Expired 10/5/63

OFFICIAL FILE COPY
O. M. E
RECEIVED OCT 24 1963

DATE	INITIALS	CODE
10/25		800
10/22		100
10/25		110
	Murphy	500

2612

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. From August 26, 1962, to October 5, 1963 ~~Since~~ , 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. From August 26, 1962, to October 5, 1963 ~~Since~~ , 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

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
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

Submitted by:

Name Merrell Cook Title Times Inc - Manager

Address 283 E. So Temple Date 10-20-63.
Salt Lake City, Utah

4511

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

August 9, 1962

Re: DMEA-3066 (Tungsten)
Timmo, Inc.
Last Chance Claims
Tooele County, Utah
Contract Idm-8621

Mr. Fred A. Cook, President
Star Dust Mines
283 East South Temple
Salt Lake City, Utah

Dear Mr. Cook:

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,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

OFFICIAL FILE COPY O. M. E RECEIVED AUG 31 1962		
DATE	INITIALS	CODE
9/4		800
9/5		100
9/5	on leave	110
		500
	8-6 S.I.H	520
	Yes ☐	No ☒
		220

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **August 3, 1961**, 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.

2. Since **August 3, 1961**, 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

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

Type	Quantity	Estimated Grade	Location
Ore	Tons		
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

Submitted by:

Name Merrell Cook Title Manager

Address 283 East So Temple Date 9/26/62
Salt Lake City, Utah

4511

3066

JOHN KOONTZ
SECRETARY OF STATE

Selfridge

E 621

FILE COPY
C. M. F.
RECEIVED FEB 15 1962

DATE	INITIALS	
		120
2/15		800
"		500
		220

STATE OF NEVADA
DEPARTMENT OF STATE

CARSON CITY, NEVADA

JOHN K. WOODBURN
DEPUTY

OME
DEPARTMENT OF THE INTERIOR
FEB 12 1962
REGION III
DENVER, COLORADO

February 9, 1962

To: United States Department of the Interior

Re: TIMCO, INC. incorporated May 26, 1953

Replying to your recent inquiry re. the above corporation, you are informed that its charter was revoked (or, if a State other than Nevada is named after its corporate name above, its right to do business in Nevada was forfeited) at the time and for the reason set forth in one of the two following paragraphs which is checked:

( ) The first Monday of March, 192 , for failure to pay the annual license tax then assessed against corporations; or

(XX) The first Monday of March, 1956, for failure to file an annual list of officers, directors, designation of resident agent and his acceptance thereof, and to pay the filing fee and penalty thereon.

In either case, you are informed that the charter, or the right to do business in Nevada, as the case may be, has not been reinstated since revocation or forfeiture, for which the law authorizing same makes provision. If you wish to reinstate the company, we shall be glad to advise you as to the total delinquent fees and penalties which must be paid before reinstatement can be allowed, and the procedure to accomplish such reinstatement.

You are further informed that corporations are not required to file in this office any papers, statements or reports, other than their articles of incorporation and any amendments thereof, notice of change of location of principal office and of the agent in charge thereof, and the annual list of officers, etc., above referred to. Hence, we are unable to inform anyone as to the physical or financial operations of any corporation; its property, assets, or liabilities; its stock issues; or the value of its shares, etc. Furthermore, we are never informed as to the registrar or transfer agent of its stock.

In view of the status of the company, as indicated above, we have no information with respect to the current officers, directors, or resident agent of the corporation.

Very truly yours,

John Koontz

Secretary of State.

Form SS 40
727

mj

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

OME
DEPARTMENT OF THE INTERIOR
FEB 12 1962
REGION III
DENVER, COLORADO

February 5, 1962

Secretary of State of Nevada
Reno, Nevada

Re: DMEA-3066 (Tungsten)
Contract Idm-E621
Timco, Inc.
(Last Chance Claims)
Tooele County, Utah

Dear Sir:

Will you please advise the present status of Timco, Inc., a Nevada corporation?

Yours very truly,

Hugh M. Connors

Hugh M. Connors
Acting Field Officer, OME
Region III

Building 20 - Federal Center
Denver 25, Colorado

February 5, 1962

OFFICIAL FILE COPY
O. M. E
RECEIVED FEB 8 1962

DATE	INITIALS	CODE
2/8	MWS	8.00
"		5.00
		2.20

Secretary of State of Nevada
Reno, Nevada

Re: DMEA-3066 (Tungsten)
Contract Idm-E621
Timco, Inc.
(Last Chance Claims)
Tooele County, Utah

Dear Sir:

Will you please advise the present status of Timco, Inc., a Nevada corporation?

Yours very truly,

Original signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

HMC/lm
cc Chief, Division of Field Operations, OME
Contract Idm E621
Chron

Building 20 - Federal Center
Denver 25, Colorado

January 26, 1962

Mr. Fred A. Cook, President
Star East Mines, Inc.
283 E. South Temple
Salt Lake City, Utah

OME
DEPARTMENT OF THE INTERIOR

Re: BMA-3066 (Tungsten)
Contract Ida-8621
Timco, Inc.
(Last Chance Claims)
Tooele County, Utah

Dear Mr. Cook:

Will you please advise if the lease to Timco, Inc. on the Last Chance and Apache Chief claims is still in effect.

Your early reply will be appreciated.

Yours very truly,

Hugh M. Connors
Acting Field Officer, OME
Region III

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 8 1962
DATE | INITIALS | CODE

Cancelled for non Performance 1960
J A Cook

Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. F
RECEIVED JAN 29 1962

1/29 gla 500
220

January 26, 1962

Memorandum

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

From: Acting Field Officer, OME, Region III

Subject: DMEA-3066 (Tungsten)
Contract Idm E621
Timco, Incorporated
(Last Chance Nos. 1 and 2 and Apache Chief Claims)
Tooele County, Utah

Attached is the original Report of Royalty Review on the subject property dated January 4, 1962 covering the period December 1, 1954, through December 26, 1961.

Original signed by

Hugh M. Connors

Attachment
HMC/lm
cc Chief, Division of Field Operations, OME
E. D. Talbert, Acting Chief
Contract Administration and Audit Division
Royalty Corres. Idm E621
Chron

Building 20 - Federal Center
Denver 25, Colorado

January 26, 1962

OFFICIAL FILE COPY
O. M. E.
RECEIVED JAN 29 1962

DATE		
1/29		800
"	Received	500
"	Hoeft	500
		220

Mr. Fred A. Cook, President
Star Dust Mines, Inc.
283 E. South Temple
Salt Lake City, Utah

Re: DMEA-3066 (Tungsten)
Contract Idm-E621
Timco, Inc.
(Last Chance Claims)
Tooele County, Utah

Dear Mr. Cook:

Will you please advise if the lease to Timco, Inc. on the Last Chance and Apache Chief claims is still in effect.

Your early reply will be appreciated.

Yours very truly,

Original signed by

Hugh M. Connors
Acting Field Officer, OME
Region III

HMC/lm
cc Chief, Division of Field Operations, OME
Idm E621
Chron

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
1/23	[illegible]	500
	[illegible]	500
1/24	Talbot	800
1/24	[illegible]	130
"	Johnson	110
1-24	Turner	100
		220

JAN 24 1962

Memorandum

To: Acting Field Officer, Region III

From: Chief, Division of Field Operations

Subject: DMEA-3066 (Tungsten)
Timco, Inc.
Last Chance Claims
Tooele County, Utah
Contract Idm-E621

Please inquire from Stardust, Inc., the lessor of the subject property, whether the lease to Timco, Inc., is still in effect.

If Stardust states that the lease to Timco has been surrendered, cancelled, or otherwise become of no effect, please ask the Secretary of State of Nevada the present status of Timco, Inc., a Nevada corporation.

/s/ George C. Selfridge

SPHolt/gla
1-23-62
cc to: Director's Reading File
Review Committee
Docket
Code 500

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
		220

JAN 18 1962

Memorandum

To: Acting Field Officer, Region III

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

Subject: DMRA-3066 (Tungsten)
Timco, Incorporated
Last Chance Nos. 1 and 2 and Apache Chief Claims
Tooele County, Utah
Contract Idm-E621

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

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

(b) One copy for your files.

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

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

Enclosures

EDTalbert/ama 1-17-62

cc:
Docket
Director's Reading File
CA & A Division
Mr. Rothrock

43683

MME Form 7
(10-58)

OFFICIAL FILE COPY

Date	Surname	Code
12/20	Cal	220
		800

DEC 20 1961

Memorandum

To: Acting Field Officer, Region III

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

Subject: DMEA-3066 (Tungsten)
Timco, Inc.
Last Chance Claims
Tooele County, Utah
Contract Idm-E621

This Division is preparing a Report of Royalty Review on the subject contract. Accordingly, your submission of an original and one copy of MME Form 22, Check Sheet of Examining Engineer, will be appreciated.

It appears that this property has been inactive since operation by lessees (or sub-lessees?) for a limited period during 1954. Your confirmation or correction by appropriate statement under item 8 of MME Form 22 will be appreciated.

Advice also would be appreciated, if your records include such information, as to the Operator's present address and whether its lease is still in effect.

EDTalbert/ama 12-20-61

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

43683

OFFICE OF MINERALS EXPLORATION

REGION III

Statement in Lieu of Interim Report
of Certified Project

Reporting Period January 1, 1959 to March 8, 1960

Docket and Contract Number DMEA-3066, Idm-E621 (Tungsten)

Operator Timco, Inc., (Last Chance claims)
Tooele County, Utah

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 Operator reported that there was no production from the subordinated land during the reporting period.

Signed T. M. Romslo

Date March 10, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 15 1960

DATE	INITIALS	CODE
2-15	gad	220
2/15	[illegible]	800
"	Hall S.T.H.	500 ✓
		225

Building 20 - Federal Center
Denver 25, Colorado

Mr. Fred Cook, President
Star Dust Mines, Inc.
Ibapah, Tooele County, Utah

Re: Docket No. DMEA 3066 (Tungsten)
Contract No. Idm-8621
Timco, Inc.
(Last Chance claims)
Tooele County, Utah

Dear Mr. Cook:

The enclosed questionnaire was forwarded as addressed, but was returned by the Post Office Department for reason of "Addressee Unknown".

Since we are unable to locate the Operator under the referenced contract, the matter is referred to you as owner of the land subordinated under the contract. Please supply the requested information by completing one copy of the questionnaire and return it promptly to this office in the enclosed self-addressed envelope.

Very truly yours,

Original signed by

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

JWT:ltm

cc: Chmn. Op. Comm.
Reg. Corres.
Chron.

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

February 2, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 8 1960

DATE	INITIALS	CODE
2-8	gad	220
2/8	[illegible]	800
"	Hatch	700
		225

Mr. P. D. Gardner
Timco Incorporated
536 Atlas Building
Salt Lake City, Utah

Re: Docket No. DMEA 3066 (Tungsten)
Contract No. Idm-E621
Timco Incorporated
(Last chance claims)
Tooele County, Utah

Dear Mr. Gardner:

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 _____

TMR:ltm cc: Chmm. Op. Comm. ✓ Roy. Corres. E621 Chron.

Offered
~~EXTRA~~ COPY
O. M. E.
RECEIVED MAR 2 1959

DATE	INITIALS	CODE
3-2	C	220
"		110
3/3		800
		400

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
224 New Customhouse
Denver 2, Colorado

February 25, 1959

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1958 through December 31, 1958

DMEA Docket 2898 (Tungsten),
Contract Idm-E 568, Star Dust Mines, Inc. (F.F.Hintze), Tooele County, Utah

DMEA Docket 3066 (Tungsten), Contract Idm-E621,
Timco, Inc. (Last Chance claims), Tooele County, Utah

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.

Original signed by
J. W. TOWNSEND

J. W. Townsend

Enclosures
HMC/ff

cc: Semiannual Report File Idm-E 568 & E621
Harshman
Howes
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

INTERMOUNTAIN
EXPERIMENT STATION

1600 EAST 1ST SOUTH STREET
SALT LAKE CITY, UTAH

February 20, 1958

Memorandum

To: J. W. Townsend, Executive Officer, OMI Field Team, Region III

From: M. H. Howes

Subject: Statements in Lieu of Semiannual Reports

Attached are the original and nine copies each of "Statements in Lieu of Semiannual Reports" relative to the following projects in Ferrous Metals and Alloys:

Docket No. DMEA-3088 (Tungsten), Contract Idm-1518,
Star Dust Mines, Inc. (F. F. Hinton), Tooele County, Utah

Docket No. DMEA-3088 (Tungsten), Contract Idm-1521,
Timco, Inc. (Last Chance claims), Tooele County, Utah

The period covered is July 1, 1958, through December 31, 1958.

M. H. Howes
M. H. Howes

Enclosures
cc: J. D. Clemmer

OME
DMEA, REGION III

Statement in Lieu of Semiannual Report

Reporting Period	July 1, 1958, through December 31, 1958
Docket and Contract Number	DMEA-3066, Contract Idm-E621
Operator	Timco, Inc. (Tungsten) (Last Chance claims)

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 operator states that no work was done during the reporting period.

Signed M. H. Howes

M. H. Howes

Date February 20, 1959

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

August 13, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED 1958

DATE	INITIALS	CODE
		225
8/15	Lom	100
"	RJ	110
8/18	[illegible]	800
8/18	GRC	400

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, 1958 through June 30, 1958

DMEA Docket 3066 (Tungsten)
Contract Idm-E 621
Timco, Inc. (Last Chance claims)
Tooele County, Utah

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.

Alternate Acting

Executive Officer, DMEA
Field Team, Region III

Enclosures
dz

cc: Semiannual Report File E 621
Harshman
DMEA/SLC
Chron.

DMEA, REGION III

Statement in Lieu of Semiannual Report

Reporting Period	January 1, 1958, through June 30, 1958
Docket and Contract Number	DMEA-3066, Contract Idm-E621
Operator	Timco, Inc.

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 operator states that no work was done during the reporting period.

Signed M. H. Howes

M. H. Howes

Date August 7, 1958

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

March 26, 1958

DMEA
RECEIVED MAR 28 1958

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 through December 31, 1958

DMEA Docket 3066 (Tungsten)
Contract Idm-E 621, Timco, Inc. (Last Chance claims)
Tooele County, Utah

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.

E. M. Harshman

Acting Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM:jy

cc: Semiannual Report File E 621
Harshman
DMEA, SLC
Chron.

DMEA, REGION III

Statement in Lieu of Semiannual Report

Reporting Period	July 1, 1957 through December 31, 1957
Docket and Contract Number	DMEA-3066, Contract Idm-E621
Operator	Timco, Inc.

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 since 1954.

Signed M. H. Howes

M. H. Howes

Date March 20, 1958

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

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 11 1957

DATE	INITIALS	CODE
10/11	B	220
"	[illegible]	100

October 8, 1957

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 3066 (Tungsten)
Contract Idm-E 621, Timco, Inc. (Last Chance Claims), Tooele County, Utah

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.

E. M. Harshman

Acting Executive Officer, DMEA
Field Team, Region III

Enclosures

MHM/vj
cc: Semiannual Report File E 621
DMEA/SLC
Harshman (2)
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DMEA
ARTMENT OF THE INTERIOR
OCT 2- 1957
REGION I
ENVER, COLORADO

September 30, 1957

Memorandum

To: W. H. King, Executive Officer, DMEA Field Team, Region III

From: M. H. Howes

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-1321, Timco., Inc., Tooele County, Utah

Attached are the original and nine copies of "Statement in Lieu of Semiannual Report" relative to the Timco property, Tooele County, Utah. The period covered is January 1, 1957, through June 30, 1957.

M. H. Howes
M. H. Howes

Enclosure

cc: J. B. Clemmer

DMEA
ARTMENT OF THE INTERIOR
OCT 2 - 1957
REGION III
DENVER, COLORADO

DMEA, REGION III

STATEMENT IN LIEU OF SEMIANNUAL REPORT

Reporting Period	January 1, 1957, to June 30, 1957
Docket and Contract Number	DMEA-3066, Idm-E621
Operator	Timco, Inc.

	"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: The property has been inactive since 1954.

Signed M. H. Howes
M. H. Howes

Date September 30, 1957

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

OFFICIAL FILE COPY
D M E A
RECEIVED APR 18 1957

DATE	INITIALS	CODE
4/18	C	220
19	CDM	100

April 16, 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 3066 (Tungsten)
Contract Idm-E 621, Timco, Inc. (Last Chance Claims), Tooele County, Utah

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.

E. N. Harshman

Acting ~~XXXXXXXXXX~~ Executive Officer, DMEA
Field Team, Region III

Enclosures
vj/MHM

cc: Semiannual Report File E 621
S. R. Wilson
E. N.Harshman
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 12, UTAH

DMEA
DEPARTMENT OF THE INTERIOR
APR 15 1957
REGION III
DENVER, COLORADO

April 12, 1957

Memorandum

To: E. N. Karshman, Acting Executive Officer, DMEA Field Team, Region III

From: Supervising Mining Engineer

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-8521, Timco, Inc., Tooele County, Utah

Attached are the original and eight copies of "Statement in Lieu of Semiannual Report" pertaining to the Timco property for the period July 1, 1956, to December 31, 1956. The property has been inactive since a period of minor production during 1954.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

OFFICIAL FILE COPY
DMEA
RECEIVED APR 18 1957

DATE	INITIALS	CODE

DMEA
DEPARTMENT OF THE INTERIOR
APR 15 1957
REGION III
DENVER, COLORADO

DMEA, REGION III

STATEMENT IN LIEU OF SEMIANNUAL REPORT

Reporting Period	July 1, 1956, to December 31, 1956
Docket and Contract Number	DMEA-3066, Idm-E621
Operator	Timco, Inc.

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 Timco property has been inactive since a period of minor production during 1954.

OFFICIAL FILE COPY
DMEA
RECEIVED APR 18 1957

DATE	INITIALS	CODE

Signed S. R. Wilson

Date April 12, 1957

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

IN REPLY REFER TO:

RECEIVED DEC 1956 D.M.E.A.

December 4, 1956

Re: DMEA 3066 - Idm-E621
Timco, Inc.
Gold Hill Prospect
Tooele County, Utah
Approved, $2,250.00
Expended, $1,825.00
Tungsten

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of Field Team Final Report

The contract, awarded October 5, 1953, approved the expenditure of $2,250.00 for bulldozing the surface of a tactite zone between quartz monzonite and limestone.

Approximately 2,000 feet of stripping was done at a cost, including drayage and assaying of $1,825.00. Ten samples were taken by the operator and assayed.

The stripping revealed a 1 to 6-foot scheelite bearing zone containing an inferred ore reserve of:

Geologist's estimate 1,520 tons at 0.20 to 0.40% WO_3
Engineer's " 10,000 " " 0.30% WO_3

The geologist and engineer agree that the tungsten mineralization is very spotty. The geologist breaks the zone into three blocks and analyses the data pertaining to each, thus:

Block	Length Feet	Thickness Feet	Depth Feet	Grade %WO_3	Tons Gross	Tons Net
I	100	3	20	0.20%	300*	300*
II	80	4	20	0.365%	320*	320*
III	150	3	80	0.25 to 0.40	1800**	900**
			2			
	330	3.24(av.)	29(av.)		2420	1520

*Inferred.
**Probable. 50% considered recoverable.

The engineer in the Final Engineering Report bunches the 3 blocks into one block:

400 feet long, 5 feet wide, and 50 feet deep, containing 100,000 cu. feet or 10,000 tons to which he ascribes a grade of 0.30% WO_3.

Both examiners and the Field Team recommend that a certificate of discovery be issued and the certification was made March 14, 1955.

As of January 1, 1956, 1% or 100 tons of the 10,000 tons of revised ore reserves had been mined and 286 pounds of concentrate produced, the grade of which was 37.656% WO_3. Royalty payments made amount to $14.44.

I concur with the certification action, but question the advisability of using the 10,000-ton reserve figure.

N. E. Nelson

N. E. Nelson

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

224 New Customhouse
Denver 2, Colorado

Date: August 29, 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 3066 (Tungsten)
Contract Idm-E 621, Timco, Inc. (Last Chance Claims)
Tooele County, Utah

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 E 621
S. R. Wilson
E. N. Harshman
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 12, UTAH

August 27, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-2821, Timco, Inc., Tooele County, Utah

Attached are the original and eight copies of Statement in Lieu of Semiannual Report covering the Timco property for the period January 1 to June 30, 1956.

The property has been idle since 1954, during which year a minor production of tungsten was made.

Stephen R. Wilson

Enclosures

cc: J. Bruce Clemmer

DMEA, REGION III

STATEMENT IN LIEU OF SEMIANNUAL REPORT

DMEA
Date Rec'd
AUG 29 1956
BUREAU OF MINES
Denver, Colorado

Reporting Period	January 1 to June 30, 1956
Docket and Contract Number	DMEA-3066, Idm-E621
Operator	Timco, Inc.

	"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: The Timco property has been idle since a period of minor production during 1954.

Signed S. R. Wilson

Date August 27, 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

Report Period		Contract No.
7.1-12.31.55		Idm-E621
DMEA No. 3066	Operator Timco, Incorporated	

ORE ESTIMATES

	Tons	Analysis
DMEA	4,000	0.30 % WO_3
Operator to date	None	-
Total	4,000	0.30 " "
Production to date	228 *	0.30 " " *
Ore in ground	3,772 *	0.30 " " *

INVESTMENT

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

FACILITIES

Mine Plant		
Mill		
Roads		

REMARKS

* From Teletype of Field Team, January 31, 1955, adjusted to equivalent tons at "Official" grade.
The Timco property has been idle since a period of minor production during 1954.

Carbon to W. Edmondson

Prepared by S. P. Holt Date 3.5.58
(rev. 3.20.58)

31398

RECEIVED

FEB 27 1956

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

224 New Customhouse
Denver 2, Colorado

Date: February 16, 1956

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, 1955 through December 31, 1955, DMEA Docket 3066 (Tungsten) Contract Idm-E 621 , Timco, Inc., Tooele County, Utah

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

cc: Semiannual Report File E 621
S. R. Wilson
E. N. Harshman
R. W. Osterstock
Chron.

3066

Date 2-27

Referred to:

~~1. Mr. Hillenbert~~
~~2. Mr. Robason~~
~~3. Mr. Chambers~~
4. Docket Control Mails and Files
5. Division
6. Docket Control Mails and Files

Note comments in report regarding:

1. gen'l info OK

2.

3.

4.

and take appropriate action.

- - - - - -

Action taken by Division:

Initials

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

RECEIVED
FEB 27 1956

DMEA
Date Rec'd. JAN 16 1956

BUREAU OF MINES
Denver, Colorado

January 12, 1956

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah

Attached are nine copies of a Semiannual Report of Certified Project covering the subject property for the period July 1, 1955, to December 31, 1955.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

RECEIVED
FEB 27 1956

SEMIANNUAL REPORT OF CERTIFIED PROJECT

Reporting Period	July 1, 1955 to December 31, 1955
Docket and Contract Number	DMEA-3066, Contract Idm-E621
Operator	Timco, Inc.
Commodity	Tungsten
Mine Name	Last Chance Nos. 1 and 2, and Apache Chief
County and State	Tooele County, Utah
Date of Contract	October 5, 1953
Date of Certification	March 14, 1955
Expiration date of Royalty Payments	October 5, 1963
Date of Examination for this Report	January 5, 1956
Total Amount of Contract	$2,250.00
Total Expenditures under Contract	$1,825.00
Amount of Government Participation at 75 percent	$1,368.75
Royalty Payments this Period	None
Previous Royalty Payments	$14.44
Total Royalty Payments to Date	$14.44
Percent Loan Repayment Completed	1.05 percent
Amount of Royalty Due	None
Royalty Remarks	None

Original Estimate of Reserves	10,000 tons - 0.30 percent WO_3
Increase of Reserves by work performed subsequent to expiration or termination of contract	No increase
Revised Estimate of Reserves	10,000 tons - 0.30 percent WO_3
Production this Period	None
Amount of Previous Production	0.14375 tons of concentrate averaging 37.656 percent WO_3
Total DMEA Production to date	0.14375 tons of concentrate averaging 37.656 percent WO_3
Percent of Revised Reserves Mined	1 percent

Production Remarks:

A minor tonnage of low-grade tungsten ore was mined during 1954 from selected areas along the tactite zone on the Timco property. The ore was milled in a small gravity plant owned by Star Dust Mines, Inc. The resulting concentrate was sold in Bishop, California. No ores have been mined from the property since the above-mentioned production was made. Insofar as is known, the property owner, Star Dust Mines, Inc., has no plan to mine ores from the property. Mineralization is too low grade for sustained economic operation. Adequate milling facilities are situated too far from the property to permit a reasonable trucking cost. The resulting high transportation cost together with the cost of milling preclude operation of the Timco property under present conditions.

Stephen R. Wilson

Stephen R. Wilson

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DMEA
Date Rec'd.
AUG 25 1955
BUREAU OF MINES
Denver, Colorado

RECEIVED
OCT 10 1955

August 23, 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3066 (Tungsten), Idm-E621, Timco, Inc., Tooele County, Utah

Enclosed are the original and 8 copies of Semiannual Report of Certified Project covering the subject property. The period is for January 1, 1955 to June 30, 1955. The report was prepared as a result of inspection of the project site by S. R. Wilson August 11, 1955.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

DMEA
Date Rec'd.
AUG 25 1955
BUREAU OF MINES
Denver, Colorado
RECEIVED
OCT 10 1955

SEMIANNUAL REPORT OF CERTIFIED PROJECT

January 1, 1955 to June 30, 1955

Docket:	DMEA-3066, Contract Idm-E621
Commodity:	Tungsten
Contractor:	Timco, Inc.
Mine:	Last Chance Nos. 1 and 2 and Apache Chief
County and State:	Tooele County, Utah
Date of Certification:	March 14, 1955
Date of examination for this report:	August 11, 1955
Total contract amount:	$2,250
Total expended:	$1,825
Government participation:	$1,368.75
Expiration date of royalty payments:	October 5, 1963
Production this period:	.14375 tons of concentrate (crude ore tons unavailable)
Royalties this period:	$14.44
Royalties to date:	$14.44

A certification of discovery or development was issued March 14, 1955, to cover the Timco property, Contract Idm-E621. The property was inspected August 11, 1955, and at the time of inspection, was not in operation. No mining or milling equipment is present on the ground.

Exploratory work completed under the contract has exposed scheelite-bearing tactite, 1 to 6 feet thick, for approximately 1,000 feet along the contact between limestone and the quartz monzonite intrusive. Minor amounts of ore have been mined along the zone in areas where scheelite concentration is sufficient to constitute ore.

The Timco property was operated by lessees for a limited period during 1954. The property was not in operation as of the certification date, March 14, 1955, and is presently idle. Insofar as is known, the owner, Star Dust Mines, Inc., has no plan to mine ores from the property.

Royalties paid to DMEA as a result of shipments from the Timco property total $14.44. Two small lots of concentrate, totaling 287.5 pounds, were sold during the latter part of 1954. No other shipments subject to DMEA royalty have been made from the property.

Insufficient work has been accomplished on the Timco property since completion of the DMEA project to further substantiate the inferred tonnage estimate made for certification recommendations.

Stephen R. Wilson

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

224 New Customhouse
Denver 2, Colorado

March 25, 1955

Mr. P. D. Gardner, Vice President
Timco Incorporated
536 Atlas Building
Salt Lake City, Utah

Re: Royalty Payments - DMEA Docket 3000 (Tungsten), Contract Idn-E621 Timco Incorporated, Last Chance Claims, Tooele County, Utah

Dear Mr. Gardner:

Settlement sheets for Lots Nos. 5 and 7 for combined ore shipments from the Last Chance No. 1 claim and from the Star Dust Mine have been received in this office.

We have calculated the royalty due on that portion of the shipments which was produced from the Last Chance claims to be $14.44 as shown on the attached calculation sheet.

Please send your check in the amount of $14.44 to the Executive Officer, DMEA Field Team, Region III, Room 224 New Customhouse, Denver 2, Colorado. Checks should be made payable to the Defense Minerals Exploration Administration.

For any other shipments that you may make from this property please furnish this office with four copies of settlement sheets and your royalty payment check. Royalty payments are to be calculated as per Section 10 of the enclosed copy of DMEA Order 1 Amended.

Yours very truly,

W. M. TRAVER

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

Enclosures
RDB:ld
Copy to: Sec. Spr. Comm. (8) w/enclosures
S. R. Wilson w/enclosure
T. A. Christensen
R. D. Bernenstter
Royalty File 3621
Chron

400

DOCKET
Surnam
Rutledge
Martin
Holliday
Tiner
Chambers
Kilsgaard
Hedges
Selfridge
Johnson

MAR 1 5 1955

Timco, Inc.
536 Atlas Building
Salt Lake City, Utah

Re: Docket No. DMEA 3066 - Tungsten
Last Chance #1 claim, et al.
Tooele County, Utah
Contract No. Idm-E621

Gentlemen:

Transmitted herewith is a certification of discovery or development issued under the subject contract which was executed October 5, 1953.

By the terms of the exploration project contract and of the certification, all production from the lands described in the referenced contract 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 $1,368.75 is paid or until October 5, 1963, whichever occurs first.

Payments should be made to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Region III, 224 New Custom House, Denver 2, Colorado. Checks should be payable to the Defense Minerals Exploration Administration. The purchaser should be advised to deduct the royalties from the amount due on each shipment and forward check direct to the Executive Officer. Royalty payments to the Government should be accompanied by suitable evidence, such as copies of settlement sheets, showing quantity and grade of the tungsten products sold, the name of the purchaser, and the price and charges certified to be correct by the purchaser.

You are requested to notify Mr. Traver of any changes in ownership or production rights that might have any effect on the Government's right to its percentage royalty. Also, if production ceases at any time for any extended period, please notify Mr. Traver at 6-month intervals that no production has been made, when that is the case.

Sincerely yours,

C. O. Mittendorf
By EGF
Administrator

cc: R. Holliday, USBM
J. H. Hedges, USBM
T. Kiilsgaard, USGS

cc: Docket
Code 400-Mr. Martin
Code 800-Mr. Chambers
Code 110-Mr. Johnson
Adm. Read. File
Oper. Committee

cc: Mr. Fred Cook, Ibapah, Utah
FT, Reg. 3 - Denver, Colo.

Enclosure

FARutledge/ls
3/7/55

400

DOCKET
Surname:
Rutledge
Martin
Holliday
Trace
Chambers
Kiilsgaard
Hedges
Selfridge
Johnson

MAR 1 5 1955

MAR 1 5 1955

Mr. Fred Cook, President
Star Dust Mines, Inc.
Ibapah, Tooele County, Utah

Re: Docket No. DMEA 3066-Tungsten
Timco, Inc.
Last Chance #1 claim, et al.
Tooele County, Utah
Contract No. Idm-E621

Dear Mr. Cook:

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 Haydn A. Schettler, president of Timco, Inc., by a certain indenture dated April 24, 1953, by Fred Cook, president, Star Dust Mines, Inc., and is the same property referred to in the "Owner's Consent to Lien" executed September 2, 1953.

Also enclosed is a copy of our letter to Timco, Inc.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures

cc: Docket
Code 400-Mr. Martin
Code 800-Mr. Chambers
Code 110-Mr. Johnson
Adm. Read. File
Oper. Committee
J. H. Hedges, USBM
R. Holliday, USBM
T. Kiilsgaard, USGS
FT, Reg. 3 - Denver, Colo.

FARutledge/ls
3/7/55

R.L.H.

400

Docket
Surname:
Rutledge
Martin
Holliday
Traver
Selfridge
Johnson

MAR 15 1955

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

Re: Docket No. DMEA 3066-Tungsten
Timco, Inc.
Last Chance #1 claim, et al.
Tooele County, Utah
Contract No. Idm-E621

Dear Mr.Traver:

Transmitted herewith are copies of a certification of discovery or development on Contract No. Idm-E621 on the Last Chance #1, Last Chance #2, and Apache Chief claims, Tooele County, Utah. Also enclosed are copies of letters to Timco, Inc., lessee, and to Mr. Fred Cook, president of Star Dust Mines, Inc., lessor.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

cc: Docket
FT, Reg. 3 - Denver
Code 400-Mr. Martin
Code 800-Mr. Chambers
Code 110-Mr. Johnson
Adm. Read. File
Oper. Committee
J. H. Hedges, USBM
R. Holliday, USBM
T. Kiilsgaard, USGS

FARutledge/ls
3/7/55

R.E.S.

cc: Docket
Code 400 - Mr. Martin
Code 800 - Mr. Chambers
Code 110 - Mr. Johnson
Adm. Reading File
Operating Committee
Field Team, Reg. 3 - Denver
Robt. Holliday, USBM
J. H. Hedges, USBM
T. Kiilsgaard, USGS

FARutledge/ls
3/7/55

400

DOCKET
Surname:
Rutledge
Martin
Holliday
Trace
Chambers
Kilsgaard
Hedges
Gilbridge
Gilmore

MAR 15 1955

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

Re: Docket No. DMEA 3066 - Tungsten
Timco, Inc.
Last Chance #1 claim, et al.
Tooele County, Utah
Contract No. Idm-E621

Dear Mr. Gumbel:

Enclosed is a copy of a certification of discovery or development issued under the subject contract.

Contract No. Idm-E621, executed October 5, 1953, authorized the expenditure of up to $2,250.00 for the exploration of tungsten deposits on the Last Chance #1, Last Chance #2 (amended), and Apache Chief (amended) unpatented mining claims in the Clifton Mining District, Tooele County, Utah. The Government's share of this amount at 75 percent was $1,687.50. The exploration project was completed December 18, 1953, at an actual cost of $1,825.00, of which the Government's share at 75 percent was $1,368.75.

The exploration program was designed to investigate, by stripping, the tactite that had been formed in the Ochre Mountain limestone at its contact with irregular bodies of quartz monzonite. Results obtained from the stripping completed have indicated three zones along the contact that contain appreciable quantities of scheelite.

The exploration work done under the referenced contract was efficiently carried out. Approximately 2,000 feet of stripping was accomplished in 115 hours of bulldozing.

The bulldozer stripping has furnished sufficient data to estimate ore reserves as follows:

Operator - - - 4,000 tons @ 0.515% WO_3
Field Team - - 1,520 tons @ 0.2 - 0.4% WO_3

Approximately 300 pounds of tungsten concentrates not included in the above estimates of reserves have been shipped since the subject contract was executed.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosure

R.C.G.

DOCKET
Surname:
Rutledge
Martin
Holliday
Trout

Summary by W. S. Martin 3/7/65

March 7, 1955

MEMORANDUM

To: Administrator, DMEA

From: Chief, Iron and Ferro-Alloys Division, DMEA

Subject: Review of docket prior to certification of discovery
Docket No. DMEA 3066 - Tungsten
Timco, Inc.
Star Dust Mines
Tooele County, Utah
Contract No. Idm-E621

Operator: Timco, Inc.
536 Atlas Building
Salt Lake City, Utah

Operator's property rights:

Lessee of Last Chance #1, Last Chance #2 (amended), and Apache Chief (amended) unpatented mining claims in the Clifton District, Tooele County, Utah. The three claims are on record in the Tooele County Recorder's office in Book 3-A, pages 221-222, 518, and 222-223, respectively.

Contract: Dated October 5, 1953 (Region IV)

(a) Work authorized:

160 hours bulldozing at $12.50/hr.	$2,000.00
Bulldozer drayage	100.00
Analyses	150.00
Total Estimated Cost	$2,250.00
Government participation @ 75%	$1,687.50

(b) By Amendment No. 1, a larger-size bulldozer was substituted with the resulting change in the authorized units and unit cost.

133½ hours bulldozing at $15.00/hr.

(c) By Amendment No. 2, the area to be stripped was enlarged but without an increase in the authorized units of work.

(d) The exploration project was completed December 18, 1953. Approximately 2,000 feet of stripping was accomplished in 115 hours of bulldozing at an actual cost of $1,825.00. The Government's share of the costs at 75 percent is $1,368.75.

(e) Comments:

The exploration project was efficiently carried out and was successful in the discovery of low-grade tungsten ore. A certification of discovery has been recommended by the Field Team.

Tactite, in part scheelite-bearing, has been formed in the Ochre Mountain limestone at its contact with irregular bodies of quartz monzonite. Results obtained from the stripping completed under the exploration project have indicated three zones that contain appreciable quantities of scheelite. Tonnage estimates follow:

	Tons	Grade, % WO_3
Geological Survey	1,520	0.2 - 0.4
Operator	4,000	0.515
Bureau of Mines	10,000	0.3

In view of the reported spottiness of the scheelite mineralization along the exposed surface, it is believed that the estimate of the Geological Survey may be too low as the scheelite mineralization should vary in the vertical plane in much the same manner as along the surface. Therefore, based on the incomplete data available here, we believe the operator's estimate of 4,000 tons reasonably correct. However, his estimate of grade, which is based on the average of the shipments made to date, is high. The operator's expected grade is higher than any of the samples taken during the project.

The grade of the reserves inferred by the Geological Survey and Bureau of Mines appears to corroborate the opinion expressed in the memorandum dated November 16, 1953, by the Iron and Ferro-Alloys Division that the examining field team's estimate

of 1300 tons of ore which may average 0.65 percent WO_3 was not substantiated by analytical results. Returns on the three samples taken by the examining field team were reported as 0.28, 0.036, and 0.26 percent WO_3, respectively, but the grade was based entirely on the grade of the hand sorted ore shipped.

Operator's final report, dated October 8, 1954, was received in Washington on February 7, 1955. Field Team's final report, dated January 27, 1955, was also received in Washington on Feb. 7, 1955.

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

cc: Docket
Code 400
Adm. Read. File
Operating Committee
FARutledge/ls

FEB 1 6 1955

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

Re: Royalty Reports of Review
Idm-E966, DMEA-2893
F. F. Hintze

and

Idm-E621, DMEA-3066
Timco, Incorporated

Dear Mr. Brading:

Receipt is acknowledged of the copies of your Royalty Reports of Review covering the above-cited Exploration Project Contracts.

The Reports are acceptable and normal distribution may be effected.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Chief
Contract Administration
and Audit Division

WBorovies/wb
February 16, 1955

Copy to: Docket (2)
Admr. Reading File
Mr. Chambers

R.C.L.

COPY

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

February 3, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah

Enclosed are the following final reports pertaining to work completed 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 U.S. Bureau of Mines.

Final payment to the operator was processed by this office October 15, 1954, in conformance with the Report of Review of contract expenditures by the Contract Administration and Audit Division, dated June 28, 1954.

The exploration work consisted of drayage of a bulldozer and 115 hours of bulldozer stripping of some 2000 feet of outcrop at a total accepted cost of $1,825.00 in which the Government participated to the extent of 75% or an amount of $1,368.75.

The exploration work resulted in the discovery or development of about 1500 tons of inferred and probable ore containing from 0.20 to 0.40 percent WO_3, a certification of which was recommended to the Washington office August 5, 1954 and is further described in the above listed reports.

/s/ W. M. TRAVER
W. M. Traver

/s/ E. N. HARSHMAN
E. N. Harshman

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

Field Team Final Rpt.

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

Date Rec'd
FEB 1 - 1955
BUREAU OF MINES
Denver, Colorado

February 1, 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3066 (tungsten), Contract Idm-E 621, Timco, Incorporated, Gold Hill, Tooele County, Utah. Final geologic report

Enclosed are the original and 8 copies of a final geologic report by R. W. Osterstock, U. S. Geological Survey, on the geologic aspects of the work completed under the subject contract.

Osterstock describes the geologic conditions exposed by 2,000 feet of bulldozer stripping along a limestone-quartz monzonite contact, and estimates that the work resulted in the discovery of about 1,520 tons of inferred and probable ore containing from 0.20 percent to 0.40 percent WO_3. He concludes that no further work, with Government assistance, is warranted and that a discovery has been made.

The very modest ore reserves may warrant the issuance of a Certificate of Discovery.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (9)

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

MINERAL DEPOSITS
DMEA
RECEIVED
JAN 31 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

IN REPLY REFER TO:

Room 208 - 222 So. West Temple
Salt Lake City 1, Utah
January 27, 1955

Memorandum

To: E. N. Harshman, Field Team, Region III

From: R. W. Osterstock

Subject: DMEA Docket 3066, Timco, Inc., Gold Hill, Tooele County, Utah.

Enclosed are nine copies of the final geologic report on the Timco, Inc. lease, DMEA Docket 3066, by R. W. Osterstock, geologist, U. S. Geological Survey.

Timco, Inc. was granted a DMEA loan of $2,250.00 to explore for tungsten ores on the following claims leased from Stardust Mines, Inc.: Last Chance No. 1, Last Chance No. 2 (am'd) and the Apache Chief (am'd).

Tungsten mineralization in this area is restricted to the tactite zone developed at the contact of the Ochre Mountain limestone and the quartz monzonite intrusive. Bulldozer stripping operations bared about 2,000 feet of this contact. Intermittent tactite bodies exposed by the stripping operation are found to contain only sporadic scheelite mineralization. Assay samples cut by DMEA field examiners and by the operators disclose very erratic scheelite distribution within the mineralized zones.

It is estimated that the property contains 1,520 tons of probable and inferred ore reserves that will average from 0.20 to 0.40 percent WO_3. Certification of discovery to cover the property involved in the DMEA project has been recommended.

No further exploration for tungsten ores appears to be warranted on the strength of the information developed by the completed DMEA project.

R. W. Osterstock

R. W. Osterstock

RWO/rs
cc: S. R. Wilson

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

TIMCO, INC.

TOOELE COUNTY, UTAH

DMEA DOCKET 3066

Final Geologic Report

By R. W. Osterstock
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

CONTENTS

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Ore reserves	6
Summary of ore reserves	7
Conclusions and recommendations	8

ILLUSTRATIONS

Figure 1. Index map of Western Utah

Figure 2. Geologic map of Timco Lease, Clifton Mining District, Tooele Co., Utah

Figure 3. Claim map, Timco Inc., Clifton Mining District, Tooele Co., Utah

Figure 4. Map of DMEA workings, Timco Inc., Clifton Mining District, Tooele Co., Utah

FINAL GEOLOGIC REPORT

DMEA DOCKET 3066 (Tungsten)
TIMCO, INC., TOOELE COUNTY, UTAH

SUMMARY

Timco, Inc. applied for a loan on May 27, 1953, DMEA Docket 3066, to aid in exploration for tungsten ore on their three leased claims in the Clifton District, Tooele County, Utah. The property was examined by M. H. Howes, mining engineer, U. S. Bureau of Mines, and D. C. Laub, geologist, U. S. Geological Survey. The examining field team recommended a loan be granted and on October 5, 1953 Contract Idm-E621 was consummated authorizing a total expenditure of $2,250.00 for bulldozer stripping along the limestone-quartz monzonite contact. Work began December 4, 1953 and was completed December 16, 1953. Approximately 2,000 feet of stripping was completed at a total cost of $1,825.00.

Tactite developed along the contact between quartz monzonite and limestone was exposed by the bulldozer stripping operation. Scheelite mineralization within the tactite bodies is widely disseminated and carries erratic assay values. It is estimated that the property contains 1,520 tons of probable and inferred ore reserves containing from 0.20 to 0.40 percent WO_3. Certification of discovery to cover the property involved in the DMEA project has been recommended.

No further exploration for tungsten ores appears to be warranted on the strength of the information developed by the DMEA project.

INTRODUCTION

Timco, Inc. applied for a government loan, DMEA Docket 3066, to aid in exploration for tungsten ore on their three leased claims in the Clifton District, Tooele County, Utah. A field examination requested by DMEA Field

Team, Region IV was conducted by M. H. Howes, USBM and D. C. Laub, USGS. The examining geologist and engineer recommended a modified exploration program costing $2,470.00 in lieu of the $30,000.00 program originally requested by the operators. On October 5, 1953 contract Idm-E621 was consummated authorizing the expenditure of $2,250.00 for tungsten exploration on the following leased claims; Last Chance #1, Last Chance #2 (am'd) and Apache Chief (am'd). A total of $1,825 was expended during the course of the project.

Location and accessibility

The Timco lease is located in the Clifton Mining District, Tooele County, Utah (fig. 1). The property may be reached by travelling 28 miles southerly from Wendover, Utah on paved U. S. Highway 50, thence easterly 28 miles over good dirt road to Gold Hill, Utah. More specifically, the three claims included in the DMEA project lie on the north facing slope near the floor at the mouth of Pool Canyon about 2 miles northwest of the townsite of Gold Hill, Utah. The claims lie within T. 7 S., R. 18 W., SLB&M (unsurveyed).

History and production

The property included in the DMEA exploration project consisted of three claims, the Last Chance No. 1, Last Chance No. 2 (am'd) and the Apache Chief (am'd). These claims were leased on April 24, 1953 by Timco, Inc. from Stardust Mines, Inc. for a period of 15 years.

Tungsten ore was discovered on the Last Chance No. 1 claim in 1942. From this discovery, an open pit operation produced two shipments as follows: December 30, 1952, 55.66 tons of ore that assayed 0.75 percent WO_3; and January 15, 1943 50.48 tons of ore that assayed 0.54 percent WO_3. It is probable that considerable hand sorting was done on these shipments as no assays of comparable tungsten content have been recorded.

Later in 1943, tungsten mineralization was discovered in an adit 300 feet northwest of the first discovery. During 1952, tungsten mineralization was found in a second adit 500 feet northwest of the initial discovery on the same contact. Intermittent tungsten mineralization could be traced along the quartz monzonite-limestone contact for a distance of 2,500 feet with the aid of an ultra violet lamp, however, no further production has been recorded.

GEOLOGY

The Gold Hill area at the north end of the Deep Creek Range is described by T. B. Nolan in U. S. Geological Survey Professional Paper 177, 1935.

Sedimentary rocks exposed in the Gold Hill region range in age from lower Cambrian to Recent. These rocks have been complexly folded and faulted during several periods of deformation. A large irregular stocklike body of quartz monzonite and some smaller related bodies have been intruded into principally carboniferous sediments. Emplacement of these intrusive bodies appears to have been controlled by pre-existing faults. Contemporaneous with and following the emplacement of the quartz monzonite there were considerable igneous metamorphic effects at intermittent points generally near the contact. These effects were in the form of a complex suite of metasomatic minerals which developed mainly in the limestone. Nolan (1935, p. 92) notes that the development of silicate minerals in the limestone is not confined exclusively to the immediate contact zone but may make off along favorable beds for a considerable distance away from the contact. A very heavy dark colored rock type developed by the intense metasomatic action is composed mainly of garnet and diopside and is locally termed tactite. Tungsten, bismuth, copper and molybdenum minerals are commonly found in the tactite and probably are closely associated with its genetic development.

In the DMEA project area the sedimentary rocks are Ochre Mountain limestone of Mississippian age which has been intruded by small irregular bodies of quartz monzonite about 1 to 2 miles northwest of the main intrusive body. There has been intermittent development of tactite, which contains sporadic disseminated deposits of scheelite, at or near the quartz monzonite-limestone contact. The contact strikes generally southeast and has a gentle southerly dip. An indistinct easterly plunging syncline is present at the eastern end of the project area. Bedding dips range from nearly flat in the east and central portion of the project area to fairly steep dips in the western portion.

ORE DEPOSITS

The known ore deposits in the project area are confined exclusively to the tactite zone formed in the Ochre Mountain limestone at its contact with the irregular bodies of quartz monzonite. The scheelite bearing tactite is made up predominantly of green diopside and brownish garnet and varies from a few inches to several tens of feet in width and is generally overlain by a capping of coarsely recrystallized, bleached limestone. Scheelite occurs in the tactite in thin irregular discontinuous stringers and as disseminations which in places are sufficiently concentrated to make ore.

The largest tactite zone is exposed at the eastern edge of the project area where a thin veneer of bleached limestone overlies the intrusive. Sporadic occurrences of disseminated scheelite are present in thin bodies of tactite which vary from 2 to 5 feet in thickness and average about 3 feet thick. During the initial DMEA examination of this property one assay, Sample USBM No. 3, from this area assayed 0.26 percent WO_3. During the course of the DMEA project the operators cut two more samples in this area, 9E which assayed 0.09 percent WO_3 and 10E which assayed 0.38 percent WO_3.

All of the recorded production from the block of ground included in the Timco, Inc. lease has come from this area.

About 500 feet west of the above described tactite area an adit driven prior to the DMEA work exposed a zone of tactite for about 40 feet along the contact. About 70 feet east of the main adit tactite was noted in the back of a 10 foot raise in a small adit. Tactite in this block appears to have developed intermittently over a distance of about 300 feet along the contact. Tungsten mineralization within this block is very spotty, USBM Sample No. 1 taken at the face of the main adit assayed 0.28 percent WO_3, USBM Sample No. 2 taken in the raise driven from the small adit assayed 0.036 percent WO_3.

To the west of the main adit the limestone-quartz monzonite contact has been exposed over a distance of about 700 feet. Intermittent, thin tactite zones have developed along this contact, however, tungsten mineralization within these thin tactites is irregularly distributed and widely disseminated where present.

COMPLETED EXPLORATION

Exploration on the Timco lease of three claims consisted of approximately 2,000 feet of bulldozer stripping of the Ochre Mountain limestone-quartz monzonite contact. The purpose of the stripping operation was to expose zones of tungsten bearing tactite developed along the contact. Work called for in Exhibit A of the amended contract involves bulldozer stripping of the limestone-quartz monzonite contact for 1,500 feet east of the main adit and 500 feet west of the main adit. Work actually completed during the course of the project involved stripping the contact over a distance of about 700 feet westerly from the main adit and about 1,300 feet of stripping east of the main adit. The contract also authorized cutting and assaying 50 samples from the stripped contact, however, only 10 samples were taken, the location and assay results of which are recorded on figure 2.

The stripping program exposed a total of about 300 feet of irregularly distributed tactite bodies from 6 inches to 4 feet thick west of the main adit. About 400 feet east of the main adit a large single body of tactite was exposed between the main intrusive body to the north and an off shoot of the quartz monzonite on the south. This area appears to be a zone of tactite developed at the base of a thin capping of limestone. The somewhat triangular shaped tactite zone in this area is estimated to cover an area about 150 feet from the apex to a base of about 80 feet, with an average thickness of about 3 feet.

ORE RESERVES

Ore reserves on the Timco, Inc. lease may best be considered in two types, two, at and west of the main adit in which all of the scheelite bearing tactite has only a lateral dimension plus thickness and one east of the main adit in which the scheelite bearing tactite is exposed in three dimensions.

Block I — In the block at the main adit and along the 700 feet of stripped contact to the west there is exposed a total of about 300 feet of tactite. Assay samples cut by the operator reveal very erratic scheelite distribution within these discontinuous tactite bodies. In the tactite body above and just west of the main adit assays of 0.17 percent and 0.22 percent WO_3 represent the highest values.

This block is 100 feet long, may extend 20 feet into the hill and averages 3 feet thick. Using a conversion factor of 10 cubic feet per ton, this block contains 600 tons of tactite. It is further estimated that this tonnage may be reduced by a factor of one half in order to allow for the spotty nature of the scheelite within the tactite. Thus 300 tons of 0.20 percent WO_3 are inferred for this block. In order to up grade the ore it will be necessary to employ selective mining practices which will further

reduce the tonnage. A final inferred ore reserve estimate for this block is 200 tons of 0.30 percent WO_3.

Block II — About 300 feet west of the main adit near a topographic irregularity on the contact assays of 0.35 percent and 0.38 percent WO_3 indicate another ore zone. This tactite zone is about 80 feet long with an average thickness of 4 feet. It may extend down dip along the contact for a distance of 20 feet. Thus 640 tons of tactite are inferred which reduced by one half to allow for spotty scheelite distribution permits an inferred reserve estimate for this block of 320 tons of 0.365 percent WO_3.

Block III — In the block east of the main adit a triangular shaped tactite zone has been exposed between two bodies of quartz monzonite. The tactite appears to have developed at the base of thin capping of bleached limestone and is, therefore, believed to be continuous. The dimensions of this block are 150 feet from the apex to an 80 foot long base. Tactite in this block averages 3 feet thick. Thus 1,800 tons of tactite exist in this block and it is assumed that due to the spottiness of the scheelite mineralization this figure may be halved giving an estimated probable reserve of 900 tons. Two recent assay samples in this area cut by the operators carried 0.09 percent and 0.38 percent WO_3. USBM Sample No. 3 cut in this area carried a 0.26 percent WO_3. Production from this block was 55 tons of 0.75 percent WO_3 and 50 tons of 0.54 percent WO_3. It is estimated that the probable reserve of 900 tons from this block will average from 0.25 to 0.40 percent WO_3. Selective mining practice may up grade the final product but with a corresponding decrease in tonnage.

SUMMARY OF ORE RESERVES

	Class	Tonnage	Grade Percent WO_3
Block I	inferred	300	0.20 percent
Block II	inferred	320	0.365 percent
Block III	probable	900	0.25 - 0.40 percent

CONCLUSIONS AND RECOMMENDATIONS

Scheelite mineralization in the tactite which has intermittently developed between the quartz monzonite and the Ochre Mountain limestone is very spotty. Stripping operations conducted under the DMEA exploration program have exposed tactite bodies both east and west of the main adit which contain sporadic disseminations of scheelite. Assays taken by the U. S. Bureau of Mines engineers and by the operators reveal the scheelite mineralization to be very widely disseminated in the tactite. Only three areas provide minable concentrations of scheelite at present market prices. It is estimated that the property contains 900 tons of probable reserves containing 0.25 - 0.40 percent WO_3 and 620 tons of inferred reserves containing 0.20 - 0.36 percent WO_3.

It has been recommended that a certification of discovery be issued to cover this property explored under the DMEA contract.

No additional exploration for scheelite can be recommended on the strength of the information developed by the now terminated DMEA project.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Minerals Administration
RECEIVED
Mining Division
Date Rec'd
1954
BUREAU OF MINES
Denver, Colorado

October 29, 1954

Memorandum

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

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah

Enclosed are the original and 8 copies of a final engineering report covering work performed under the subject contract. The report was prepared by M. H. Howes.

Exploration consisting of bulldozer stripping was authorized in a contract dated October 5, 1953. The work was started December 4, 1953, and completed December 18, 1953. The stripping disclosed a zone of tactite containing low-grade scheelite mineralization.

It is estimated that 10,000 tons of ore assaying 0.3 percent WO_3 is present in the tactite zone. A certificate of discovery has been recommended.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

TIMCO, INC.
TOOELE COUNTY, UTAH
DMEA-3066
Contract Idm-E621
Tungsten

Final Engineering Report

By M. H. Howes
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

TIMCO, INC.
TOOELE COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Timco, Inc., property, Tooele County, Utah
Fig. 2 Claim map showing bulldozer stripping and samples

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

An exploratory bulldozer stripping project by Timco, Inc., on claims leased from Star Dust Mines, Inc., was started December 4, 1953, under Docket No. DMEA-3066 (Tungsten), Contract Idm-E621 (short form), the effective date of which is October 5, 1953. Contract work was completed December 18, 1953.

The Star Dust Mines, Inc., property is lated in the Clifton district on the south slope of Dutch Mountain, about 2 miles northwest of Gold Hill, Tooele County, Utah. The property covers parts of unsurveyed T. 7 S., R. 18 W., S.L.B. & M. (fig. 1).

Timco, Inc., holds a lease from the Star Dust Mines, Inc., on three unpatented lode mining claims: Last Chance No. 1, Last Chance No. 2 Amended, and Apache Chief Amended (fig. 2).

Bulldozer stripping to expose tactite along the quartz monzonite-limestone contact for a distance of approximately 1,500 feet easterly and approximately 500 feet westerly from the westernmost adit is authorized by the contract. The work is to be done with a Caterpillar 8 bulldozer. Total allowable cost is $2,250, which includes 133-1/3 hours of bulldozing at $15.00 per hour for a cost of $2,000, plus $100 for bulldozer drayage and $150 for assaying 50 samples at $3.00 per sample. Approximately 2,000 feet of stripping was accomplished in 115 hours at an actual total cost of $1,825.

Scheelite-bearing tactite occurs in a zone from 1 to 6 feet thick along the contact between a quartz monzonite intrusive and Ochre Mountain limestone of Mississippian age.

It is estimated that the property contains an inferred ore reserve of 10,000 tons, with an assay value of approximately 0.3 percent WO_3.

A summary of expenditures follows:

115 hours bulldozer stripping at $15.00 per hour	$1,725.00
Bulldozer drayage	100.00
Total cost of project	$1,825.00
Government participation at 75 percent	$1,368.75
Allowable total cost	$2,250.00
Actual total cost	1,825.00
Unspent allowable cost	$ 425.00
Allowable Government participation	$1,687.50
Actual Government participation	1,368.75
Saving to Government	$ 318.75

It is concluded that the project was successful in discovery of low-grade tungsten ore. Company development of the ore will determine the economic value of the deposit.

Government aid for further exploration of the property is not recommended at the present time.

INTRODUCTION

Application was made May 27, 1953, by Timco, Inc., lessee of a portion of the Star Dust Mines, Inc. property in the Clifton district, Tooele County, Utah, for Government aid in a tungsten exploratory project estimated to cost $30,000. The applicant proposed exploration of a scheelite-bearing tactite zone along a limestone-quartz monzonite contact by stripping with a bulldozer a distance of approximately 2,500 feet; by driving eight 50-foot crosscuts through the tactite zone; and by drilling 11 vertical churn or diamond drill holes along the mineralized zone for a total of approximately 1,000 feet.

M. H. Howes, Bureau of Mines, and D. C. Laub, Geological Survey, examined the property June 18, 1953, to appraise the feasibility of the proposed program. It was recommended that the exploratory work be confined to bulldozer stripping and sampling. A contract was prepared and signed October 5, 1953. The contract allows a total cost of $2,250, of which the Government's participation at 75 percent is $1,687.50. The project was started December 4, 1953, and completed December 18, 1953. Approximately 2,000 feet of stripping was accomplished in 115 hours at a total cost of $1,825.

LOCATION

The Star Dust Mines, Inc., property is situated in the Clifton district, on the gentle south slope of Dutch Mountain, about 2 miles northwest of Gold Hill, Tooele County, Utah. The area is included in unsurveyed T. 7 S., R. 18 W., S.L.B. & M. (fig. 1).

Wendover, Utah, on the Western Pacific Railroad, is the nearest rail shipping point, and is about 56 miles northerly from Gold Hill (28 miles northwesterly over good, graveled road to U. S. Highway 50, and thence 28 miles northerly over paved road to Wendover).

OWNERSHIP AND EXTENT

The following unpatented lode mining claims, recorded in the office of the County Recorder, Tooele County, Utah, are leased to Timco, Inc., by Star Dust Mines, Inc.:

Claim	Book	Page
Last Chance No. 1	3-A	221-222
Last Chance No. 2 (amended)	3-A	518
Apache Chief (amended)	3-A	222-223

Timco, Inc., is a Nevada corporation with address at 536 Atlas Building, Salt Lake City, Utah. Mr. H. A. Schettler is president, Mr. L. D. Gardner is vice president, and Mr. F. L. Maxwell is secretary of the corporation.

EXPLORATION PROJECT CONTRACT

Docket No. DMEA-3066 (Tungsten), Contract Idm-E621 (short form) was signed October 5, 1953. The contract states that the project work shall start within 60 days from the date of the contract and be completed within a period of 5 months from the date of the contract. The contract in its original form describes the work in Exhibit A as follows: "Expose by bulldozing the tactite on the quartz monzonite-limestone contact from the westernmost adit to the end of the contact 1,000 feet to the east. Expose the contact along the north side of the dike by bulldozing approximately 8,000 square feet of the thin cap of limestone between the main quartz monzonite intrusive to the north and the dike to the south. The areas to be stripped are outlined on figure 2, which is attached and made a part of Exhibit A. The bulldozer used is to be an International TD-14 or equivalent thereof. A maximum of 50 samples will be taken in the exposed mineralized areas." Changes in the original contract were made in two amendments. Amendment No. 1 allows the use of a "Caterpillar 8" instead of the "International TD-14 or equivalent thereof." It changes "160 hours bulldozing at $12.50 per hour" to "133-1/3 hours bulldozing at $15.00 per hour." Amendment No. 2 changes the description of the work to read, "Expose by bulldozing the tactite on the quartz monzonite-limestone contact for a distance of approximately

1,500 feet easterly and approximately 500 feet westerly from the westernmost adit."

Allowable costs of the project are as follows:

133-1/3 hours bulldozing at $15.00 per hour	$2,000.00
Bulldozer drayage	100.00
Assaying 50 samples at $3.00 per sample	150.00
Total	$2,250.00
Government participation at 75 percent	$1,687.50

DESCRIPTION OF WORK COMPLETED

More than 2,000 feet of bulldozer stripping (fig. 2) was accomplished in 115 hours of work. Scheelite-bearing tactite, from 1 to 6 feet thick, was exposed for over 500 feet westerly from the westernmost adit. Approximately 700 feet of scheelite-bearing tactite and several minor spots of scheelite mineralization were exposed in more than 1,500 feet of stripping to the east and south of the adit. The limestone capping, for a distance of nearly 300 feet to the east of the adit, is too thick and tough to strip with a bulldozer.

GEOLOGY

Rocks in the vicinity of the property consist of Ochre Mountain limestone of Mississippian age intruded by quartz monzonite. A zone of scheelite-bearing tactite from 1 to 6 feet thick occurs along the limestone-intrusive contact, which strikes easterly and dips gently to the south. The tactite consists of dark brownish-red

garnetized rock. Scheelite is disseminated through portions of the tactite, and in several places is concentrated into pods of ore.

ORE RESERVES

Spotty scheelite deposition and erratic assay values make ore reserves difficult to estimate. Ore pods totaling approximately 400 feet in strike length and averaging 5 feet in thickness were encountered along the tactite zone exposed by the bulldozer stripping. Samples taken indicate this ore will average approximately 0.3 percent WO_3. Because of ore exposures made in the westernmost adit, in the original open cut, and in stripping at the east end of the Last Chance No. 1 claim, it is believed logical to assume that ore deposition will extend an average of 50 feet down dip from the surface showings. It is estimated that if the ore were all deposited in one block, its size would be 400 feet long, 50 feet wide, and 5 feet thick, resulting in a volume of 100,000 cubic feet. If 10 cubic feet of ore in place will weigh approximately 1 ton, then 100,000 cubic feet of ore will weigh 10,000 tons. Thus it is estimated that the property contains an inferred ore reserve of 10,000 tons, with an assay value of approximately 0.3 percent WO_3.

EXPENDITURES

The short-form contract allows a cost of $15.00 per hour for 133-1/3 hours of bulldozer stripping, plus $100.00 for bulldozer

drayage, plus $150.00 for assaying 50 samples at $3.00 per sample, for a total cost of $2,250.00.

Actual expenditures made for the project follow:

115 hours bulldozer stripping at $15.00 per hour	$1,725.00
Bulldozer drayage	100.00
Total cost of project	$1,825.00
Government participation at 75 percent	$1,368.75
Allowable total cost	$2,250.00
Actual total cost	1,825.00
Unspent allowable cost	$ 425.00
Allowable Government participation	$1,687.50
Actual Government participation	1,368.75
Saving to Government	$ 318.75

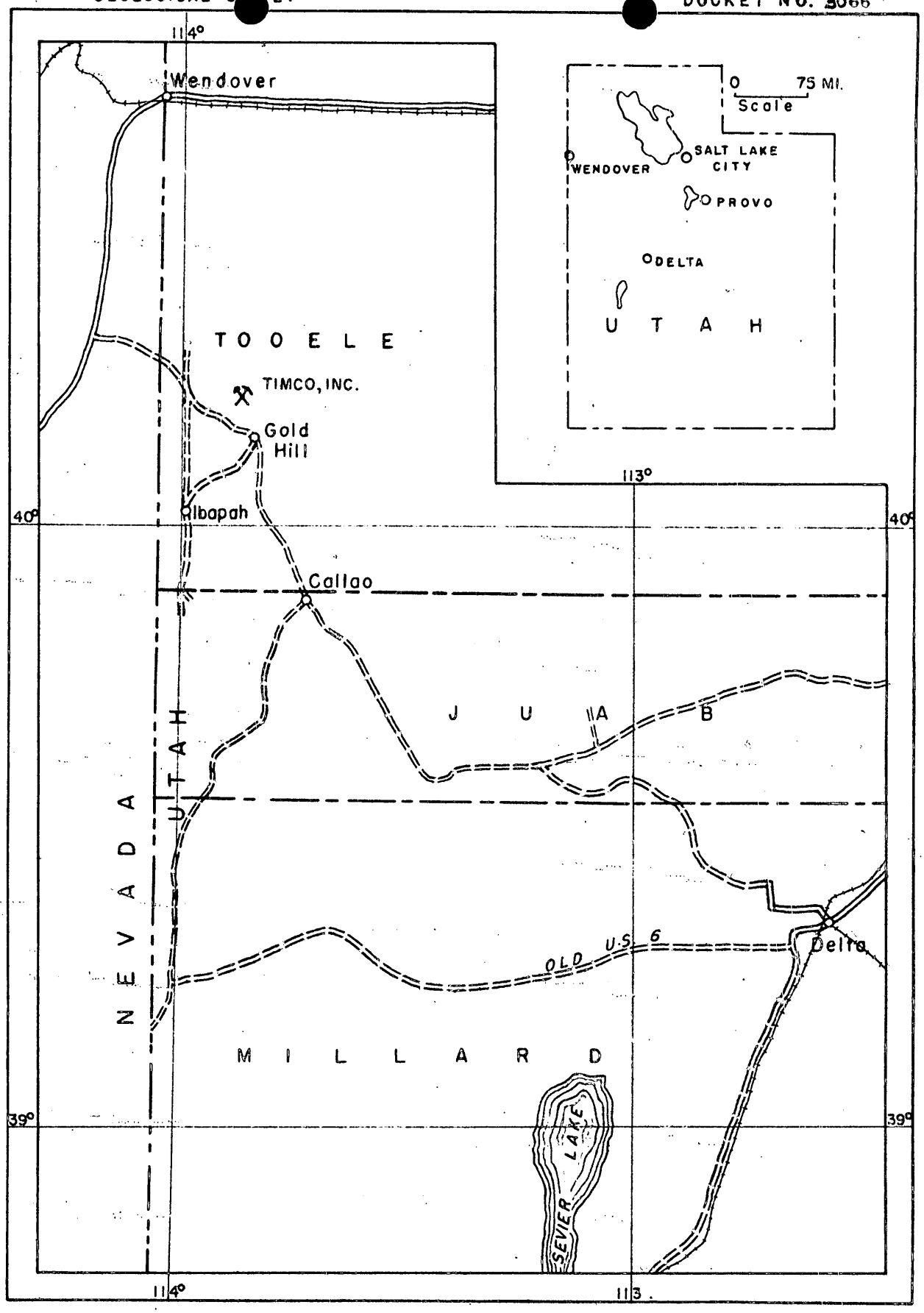
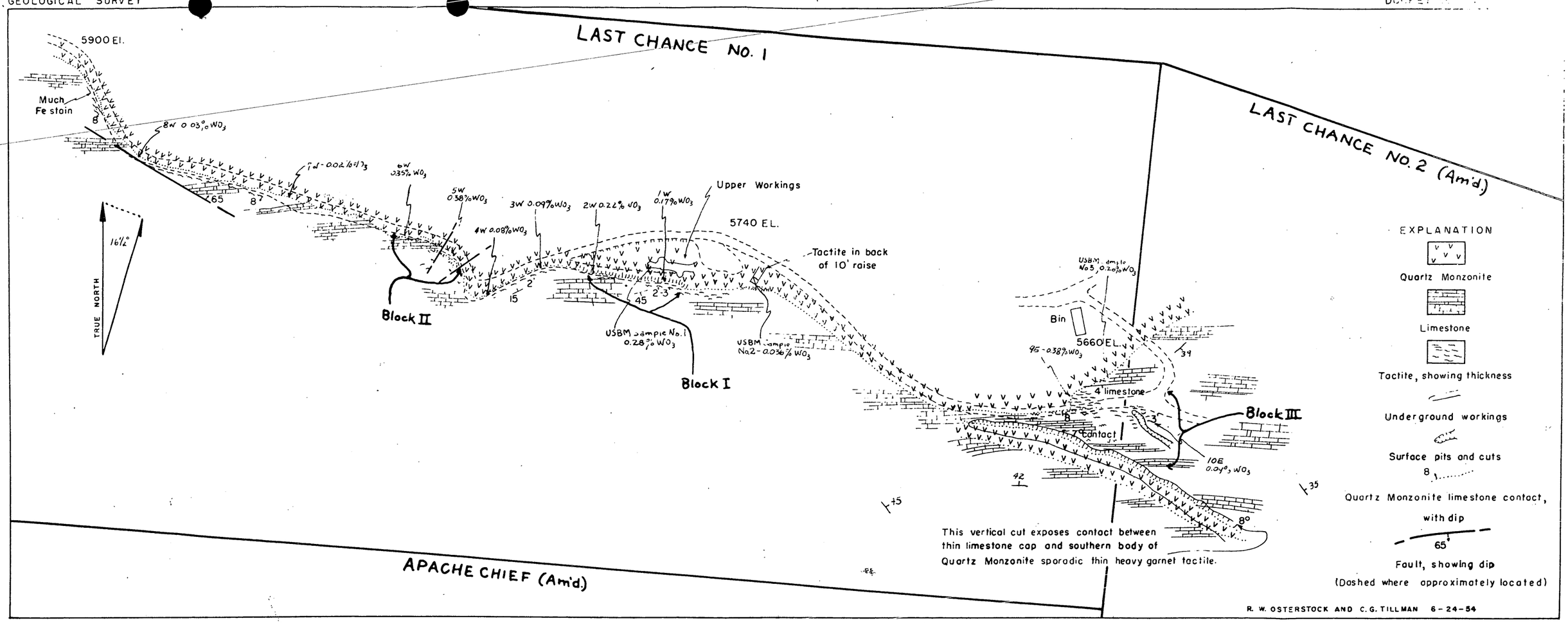


FIG. I INDEX MAP OF WESTERN UTAH

0 5 10 15 20 MILES
Scale



MAP OF STRIPPED LIMESTONE — MONZONITE CONTACT ZONE ON THE LAST CHANCE CLAIMS

TIMCO INC.

GOLDHILL DISTRICT, TOOELE COUNTY, UTAH

0 100 200 Feet
Scale

FIG. 4

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

224 New Customhouse
Denver 2, Colorado

February 3, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah

Enclosed are the following final reports pertaining to work completed 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 U.S. Bureau of Mines.

Final payment to the operator was processed by this office October 15, 1954, in conformance with the Report of Review of contract expenditures by the Contract Administration and Audit Division, dated June 28, 1954.

The exploration work consisted of drayage of a bulldozer and 115 hours of bulldozer stripping of some 2000 feet of outcrop at a total accepted cost of $1,825.00 in which the Government participated to the extent of 75% or an amount of $1,368.75.

The exploration work resulted in the discovery or development of about 1500 tons of inferred and probable ore containing from 0.20 to 0.40 percent WO_3, a certification of which was recommended to the Washington office August 5, 1954 and is further described in the above listed reports.

W. M. Traver
W. M. Traver

E. N. Harshman
E. N. Harshman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
OCT 14 1954
BUREAU OF MINES
Denver, Colorado
DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
FEB 7 1955

October 12, 1954

Memorandum

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

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah

Enclosed are the original and four copies of a final engineering and geologic report submitted by the subject applicant.

The report was originally received in this office September 28, 1954. A request was made that the operator revise and resubmit the report. The revised report was returned to this office October 11, 1954.

It is recommended that the attached report be accepted as fulfilling the requirements of the contract as cited in Article 5(b) of form MF-200(A).

The operator has requested a reclaim for deduction of $200 made for the period December 1953. The Administrative Audit Difference Statement was included with the final report, and is herewith attached, together with copies of the operator's letter transmitting the information to this office.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

DMEA-3066

PHONE 9-0862

TIMCO, INC.
536 ATLAS BUILDING
SALT LAKE CITY, UTAH

October 8, 1954

Mr. Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region 4
U. S. Bureau of Mines
1600 East First South
Salt Lake City 1, Utah

Dear Mr. Wilson:

You will find enclosed a final report by Timco, Inc. in regard to D.M.E.A. Exploration Contract No. Idm-E621, Docket D.M E.A. 3066.

Also, attached to the report is a map of the property. Five copies of the above are submitted.

Also enclosed is an administrative Audit Difference Statement dated January 25, 1954, showing a balance due us of $200.00. We will also have a balance due us of $22.50, as shown by our operator's report of September 24, 1954.

Hoping that this is sufficient to close this matter, I am

Very truly yours,

TIMCO, INC.

F. L. Maxwell, Secretary

flm:ep

Enclosures: Final report and map (5 copies)
Administrative Audit Difference Statement

PHONE 9-0862

TIMCO, INC.
536 ATLAS BUILDING
SALT LAKE CITY, UTAH

[illegible] OF THE INTERIOR
[illegible] Minerals Administration
RECEIVED
[illegible]

October 8, 1954

FINAL REPORT BY TIMCO, INC. UNDER

DMEA EXPLORATION CONTRACT NO. Idm-E621, DOCKET DMEA 3066

Timco, Inc. was authorized under D.M.E.A. contract No. Idm E-621 to explore the mineralized zone on the Last Chance No. 1, Last Chance No. 2, and Apache Chief claims near Gold Hill, Utah.

In December, 1954, we entered into a contract with Gibbons and Reed of Salt Lake City, Utah, to strip the vein of ore along the contact on the Apache Chief, Last Chance No. 1 and Last Chance No. 2 claims. This work was completed with a D-8 Caterpillar Bulldozer in a very efficient and satisfactory manner. It was apparent that the decision and amendment to use the larger equipment was a very wise move. Contacts were exposed for 1175 feet of the three claims, and 965 additional feet of minor swipes with the bulldozer were made in other promising areas.

No stripping was done in the central part of the claim, as we had already stripped most of this area. Some little distance remains unexposed, as the lime capping was so heavy that it could not be moved with the bulldozer.

On the 1175 feet exposed, mineralization was found continuing throughout, as well as on that part we had previously exposed. The Bulldozer was used for 115 hours on this work at a total cost of $1725.00, plus $100.00 for drayage.

After stripping the vein, ten assays were taken at the points indicated on the attached maps, numbering from 1W to 10E. These assays ranged from .02% to .38% WO_3. The WO_3 content of each assay is noted on the enclosed map

in red. Assay reports were included in our monthly report of September 24, 1954.

GEOLOGY

The general geology of the area indicates contact deposits of tungsten between limestone and decomposed granite. The wolframite and scheelite occur in a tactite formation varying in grade from 0.01% WO_3 to as high as 40 to 50% WO_3. The grade of the ore is not consistent in the tactite, but varies violently throughout the tactite body as indicated above. The strikes of the veins are generally in a Northwest-Southeast bearing and dip almost vertically. The tactite veins are not of any consistent width, but appear to vary from several feet to possibly 40 feet in width. The depth of the tactite is unknown as no vertical work was completed to expose depths.

The tonnage of ore exposed on this exploration work is very difficult to determine because of the varying widths and grades of ore encountered. However, from the vein exposed, it is reasonable to believe that there is a probable tonnage of tactite in excess of 4,000 tons.

The average grade of 388,838 pounds of ore mined and shipped from the Last Chance claim prior to this exploration program was 0.515% WO_3; therefore it is reasonable to believe that the ore exposed on the program will average approximately the same grade.

After shipping nearly 400,000 lbs. of ore from the property, and on the information obtained from these assays, the company decided that it was impractical to ship more ore to Salt Lake City for milling and refining, but that undoubtedly a flotation mill at or near the property would be necessary for a profitable operation.

Since that time, Timco, Inc. and the Star Dust Mines, Inc. have been negotiating with outside interests to construct a mill in the area. These negotiations are still under way, and we hope to have a mill ready to operate

by early spring. We feel that by saving the freight from the mine to Salt Lake City this property can be operated at a profit.

Timco, Inc. has entered into a lease agreement with Jackson and Latham for some very selective mining of high grade ore from the tunnel developed by Timco prior to the exploration work with the bulldozer. At the present time, these men have produced less than two hundred pounds of concentrates, which have been shipped to Bishop, California, for selling. Final settlement has not yet been received on this shipment and a full report on same will be made to your office at the time this is received.

We are enclosing with this final report your Administrative Audit Difference Statement showing a balance due us of $200.00.

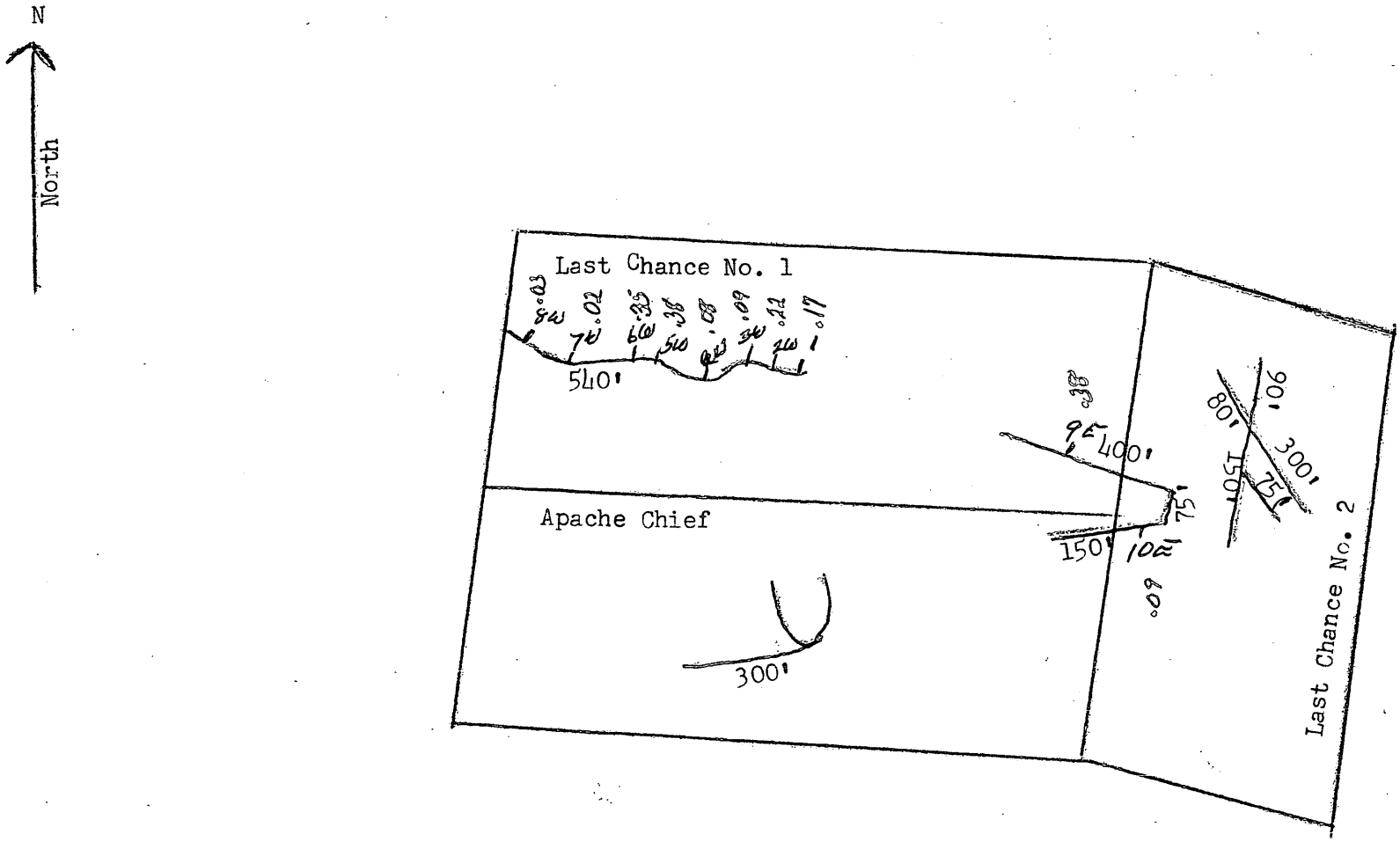
We feel that additional exploration under this contract is not advisable at this time, and we will await any additional instructions from your office necessary to close this matter.

Respectfully submitted

By: F. L. Maxwell

F. L. Maxwell, Secretary

Enclosure: Statement



STAR DUST MINES, INC.

Map of Tungsten Claims

Stripping completed December, 1953,
under DMEA Contract Idm E621

Red = % WO_3

Mr. Jeffridge
Jan. 31, 1955
4:30 PM.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 1 1955

DN 255 BUREAU MINES 1-31-55 2-26 PM

CHAIRMAN, OPERATING COMMITTEE
DMEA

REURTT JANUARY 19, DOCKET DMEA 3066, CONTRACT IDM-E621, TIMCO, INC., INFORMATION AVAILABLE INDICATES PRODUCTION TO DATE AMOUNTS TO 55 TONS .75 PERCENT WO3 AND 50 TONS .54 PERCENT WP3.////XXX WO3. FIELD TEAM REPORT WILL BE FORWARDED THIS WEEK WHICH MAY HAVE A BEARING ON THE MATTER RELATIVE TO ISSUANCE OF CERTIFICATION.

W M TRAVER

LAST WORD IN THIRD LINE IS 29////XXX WO3.

Denver, Colo.

FEB 1 8 37 AM '55

BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

Docket
Surname
Martin
Newcomb
Hedges
Selfridge
Gilman
Kilmartin

Martin
Ext. 5285

Dept. of the Interior
Defense Minerals Exploration
Administration
14X4401(01) Revolving Fund, Defense
Production Act,
Interior (Allocated Working Fund to
the Office of the Secretary)

JAN 19 1955

T E L E T Y P E

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

Please advise total production from project under Contract Idm-2021, Docket DMEA 3066, Timco, Inc., since October 5, 1953, as royalty was required on such production by that contract.

George C. Selfridge
Chairman, Operating Committee (WB)

cc: DOCKET
CODE 400
FT, REG. III - Denver
ADM. READ. FILE
OPER. COMM.
R. W. GEEHAN, USBM
T. KIILSGAARD, USGS

WSMartin/ls
1-18-55

R.C.G.

Yes Audited

? Certified

W[illegible] ANALYSIS SHEET - DMEA PROJECT [illegible]

Analysis as of 12/22/1954
Incl. Voucher for _____

Yes Actual Cost

Agreed Unit Costs

Name Timco Corporation

Docket No DMEA-3066

State Utah

Commodity Tungsten

Idm-E No. 621

OPERATION	AUTHORIZED Units	AUTHORIZED Cost	COMPLETED Units	COMPLETED Cost	NET COST
Drifting & Crosscutting					
Raising					
Shafts					
Winzes					
Drilling (Specify)					
Surface Excavation		2,100.00		1,825.00	1,825.00
Underground Excavation					
Roads and Trails					
Operating Equipment Purchased					
Surface Rehabilitation & Repairs					
Underground Rehabilitation					
New Building, Improvements, etc.					
Other (Specify)		150.00			
Totals		2,250.00		1,825.00	1,825.00

Prepared by TLC

71626

400

DOCKET
SURNAME

Rutledge
Martin
Selfridge
Johnson
Rutledge

DEC 20 1954

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

Re: Docket No. DMEA 3066 - Tungsten
Timco Incorporated
Last Chance claims
Tooele County, Utah
Contract No. Idm-8621

Dear Mr. King:

Reference is made to the subject docket and your memorandum of October 15, 1954, to T. A. Christensen in which it was stated that the Operator's final report was received in your office on October 14, 1954.

Article 6 of the contract under Repayment by Operator states: "If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the operator has rendered the required final report and final account, may so certify in writing to the operator."

The Government considers the date of submission of the operator's final report to be the date the report is stamped in the Regional office.

With regard to the above-referenced contract the operator's final report though received in the Regional office on October 14, 1954, has not yet been transmitted to Washington. Such a delay in transmitting the report to Washington serves to penalize the Government by in effect shortening the period in which we may prepare the certification.

It is suggested, therefore, that the Washington copies of this and all other operators' final reports be transmitted to Washington as soon as possible after they are received.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)

APPROVED:

/s/ Robert W. Geehan
Member, Bureau of Mines (RWG)

Thor H. Kiilsgaard
Member, Geological Survey (THK)

cc to: Thor H. Kiilsgaard, USGS
cc to: Operating Comm.
FT. REG. IV
R. W. Geehan, USBM
12-16-54
Docket
Code 400
Adm. Read. File

R.S.S.

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

Minerals
RECEIVED
OCT 28 1954

400

224 New Customhouse
Denver 2, Colorado

October 26, 1954

WSM

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah. Final Payment.

Enclosed are two copies of a memorandum to Mr. T. A. Christensen, dated October 15, 1954, relative to final payment under the terms of the subject contract.

Final payment to the Operator in the amount of $200.00 has now been made in conformance with the Report of Review by the Contract Administration and Audit Division, dated June 28, 1954.

W. H. King

Enclosures

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

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT 28 1954

224 New Customhouse
Denver 2, Colorado

October 15, 1954

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah - FINAL PAYMENT

Reference is made to our memorandum of January 18, 1954, whereby we transmitted the final Form MF-104 Operator's Monthly Progress Report and Voucher for the month of December 1953 and instructed you to withhold the amount of $200.00 from reimbursement to the operator pending receipt of the operator's final report and release of a Report of Review of contract expenditures by the Contract Administration and Audit Division.

The operator's final report was received in this office October 14, 1954, therefore we now recommend that final payment to the operator be made on the following basis which is in conformance with the Report of Review by the Contract Administration and Audit Division dated June 28, 1954:

Basis for final payment

Total accepted cost.....	$1,825.00
Government participation at 75%.....	1,368.75
Total prior payments.....	1,168.75
Balance due the operator.....	$ 200.00

W. H. King

JWT:jp
cc Subject
Chron
SRWilson
Sec. to Op. Comm. (2)
JWTownsend

Paid 200.00
Randel R. Cooper
Authorized Certifying Officer
10/22/54
DMA-55-28

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 18 1954

224 New Customhouse
Denver 2, Colorado

October 14, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Last Chance Claims, Tooele County, Utah

Reference is made to our memorandum of September 30, 1954, and prior correspondence relative to the receipt of the operator's final report.

In conjunction with the matter we are enclosing a copy of a letter to the operator acknowledging receipt of the operator's final report and advising him that amounts claimed on Form MF-104 Operator's Monthly Progress Report and Voucher dated July 31, 1954, for the month of January 1954, would not be allowable as the work for which reimbursement is claimed was performed subsequent to the termination date of the contract.

The Field Team's final report will be forwarded as soon as reports by the examining team are available.

W. H. King

W. H. King

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

224 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 18 1954

October 14, 1954

Mr. F. L. Maxwell, Secretary
Timco, Incorporated
536 Atlas Building
Salt Lake City, Utah

Re: Docket DMEA 3066 (Tungsten)
Contract Idm-E621

Dear Mr. Maxwell:

Receipt is acknowledged of your letter of October 8, 1954 to Mr. Stephen R. Wilson enclosing the operator's final report in conformance with the provisions of Contract Idm-E621.

In your letter of October 8 you request reimbursement in the amount of $200.00, withheld from payment to you for work performed during the month of December 1953, and $22.50 due on your report of September 24, 1954.

Regarding payment of the amount of $22.50 claimed on Form MF-104 Operator's Monthly Progress Report and Voucher dated July 31, 1954, covering the month of January 1954, the Narrative Report dated September 24, 1954 attached to the Monthly Progress Report and Voucher indicates that the sampling was performed subsequent to the termination date of the contract, therefore is not an allowable charge to the project.

Reimbursement to you of the amount of $200.00 withheld from the December payment will be processed within the next few days.

Very truly yours,

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

JWT:jp
cc Subject
Chron
Koschmann
Wilson
Roberts
Chairman, Op. Comm.
Townsend

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

224 New Customhouse
Denver 2, Colorado

September 30, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Last Chance Claims, Tooele County, Utah

Reference is made to matter discussed in your letter of August 6, 1954 and memorandum of September 16, 1954.

We have been advised by Wilson today that the operator's final report was received as stipulated in Wilson's letter to the operator of September 13, a copy of which was forwarded by our memorandum of September 16. However, Wilson advises that it was necessary to return the operator's report to him for revision before it could be accepted and would be returned by October 1.

We will further advise you upon receipt of the operator's report.

W H King
W. H. King

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

Minerals Administration
RECEIVED
SEP 20 1954

224 New Customhouse
Denver 2, Colorado

September 16, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Last Chance Claims, Tooele County, Utah

Reference is made to your letter of September 13, 1954 wherein you request to be advised when the final reports may be expected and state that if the operator has not submitted a final report he should be informed that under the provisions of Article 5(b) such a report is required.

In conjunction therewith we are enclosing a copy of a letter dated September 13, 1954 from S. R. Wilson, Chief, Minerals Development Branch, Mining Division, Region IV, to L. B. Gardner, Vice President, Timco, Inc.

A copy of our letter of August 3, 1954 referred to in Wilson's letter to the operator was forwarded to you at the time of writing.

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

Enclosure to 400

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 East First South St.
Salt Lake City 1, Utah

C O P Y

RECEIVED SEP 20 1954

September 13, 1954

Mr. L. B. Gardner, Vice President
Timco, Inc.
536 Atlas Building
Salt Lake City, Utah

Re: Docket No. DMEA-3066
Contract Idm-E621

Dear Mr. Gardner:

Reference is made to a letter dated August 3, 1954, from W. H. King, Executive Officer, DMEA Field Team, Region IV, wherein you were reminded of your obligation in reference to preparation of a final engineering and geologic report as cited in Article 5(b) of the contract. No response has been received in answer to Mr. King's letter.

It is desired that the contract account be closed without further delay. If we do not receive your final report within 15 days, the matter will be referred to the Washington office of DMEA for their consideration and whatever action is deemed necessary.

Very truly yours,

/s/ Stephen R. Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

400

DOCKET
Surname:
Rutledge
Martin
Selfridge
Y. J. Pearson

SEP 13 1954

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

Re: Docket No. DMEA 3066 - Tungsten
Timco Incorporated
Last Chance claims
Tooele County, Utah
Contract No. Idm-E621

Dear Mr. King:

Reference is made to the subject docket and our letter of August 6, 1954.

It would be appreciated if we could be advised when the final reports may be expected. If the Operator has not submitted a final report, he should be informed that under Article 5(b) of the subject contract such a report is required.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Approved:

J. H. Hedges
Member, Bureau of Mines (JHB)

Thor H. Kiilsgaard
Member, Geological Survey (JHB)

cc: DOCKET
CODE 400
FT, REG.IV
ADM. READ. FILE
OPER. COMM.
R. W. GEEHAN, USBM
THOR KIILSGAARD, USGS

FARutledge/ls
9-10-54

R.C.G.

DOCKET
Surname:

Rutledge
Martin
Selfridge
McAuley

AUG 3 1954

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

Re: Docket No. DMEA 3066 - Tungsten
Timco Incorporated
Last Chance claims
Tooele County, Utah
Contract No. Idm-E621

Dear Mr. King:

Reference is made to the subject docket and your memorandum of July 6, 1954, noting that final reports will be forwarded in about two weeks.

As soon as you know the date of the Operator's final report, please inform us in order that certification, if required, may be made within six months of submission of that report.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

s/ E. L. Newcomb

Member, Geological Survey

cc: Docket
FT, Reg. 4
Code 400
Adm. Read. File
Oper. Comm.
R. W. Geehan, USBM
E. L. Newcomb, USGS

FARutledge/ls
8/4/54

R.G.R.

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

August 5, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region 1V

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621
Timco Incorporated, Tooele County, Utah

Enclosed is the following material relative to the issuance of a certification of discovery or development as a result of the exploration work performed under the subject contract.

1. Original and three copies of a memorandum dated June 8, 1954, from M. H. Howes, Mining Engineer, U. S. Bureau of Mines, and transmittal thereof of the Chief, Minerals Branch, Mining Division, Region 1V, dated June 9, 1954.

2. Memorandum dated July 29, 1954, from R. W. Osterstock for R. J. Roberts, Utah-Nevada District Office, U. S. Geological Survey.

The examining engineer and geologist, for reasons stated in their reports, recommend that a certification of discovery or development be issued in which this office concurs.

The exploration work under Contract Idm-E621 was completed during the month of December, 1953, and final reports will be forwarded as soon as available to this office.

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

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 208 - 222 So. West Temple
Salt Lake City 1, Utah
July 29, 1954

Memorandum

To: A. H. Koschmann, Field Team, Region IV E.M.H. for A.H.K.

From: R. W. Osterstock, for R. J. Roberts
Utah-Nevada District office

Subject: Docket DMEA 3066 (Tungsten), Timco, Inc., Tooele County, Utah

Completion of the bulldozer stripping authorized by the subject contract has exposed the quartz monzonite-Ochre Mountain limestone contact over a distance of about 1,500 feet. Tactite has developed in thin erratic lenses along the quartz monzonite-limestone contact, some of these lenses contain sporadic disseminations of scheelite. The erratic nature of the scheelite occurrence prohibits an accurate estimate of ore reserves, however, selective mining operations may result in the production of a few hundreds of tons of scheelite ore containing 0.15 to 0.25 percent WO_3. ||?

It is recommended that a certification of discovery be issued to cover this property.

Ralph J. Roberts

R.W. Osterstock

By-R. W. Osterstock

RWO/rs

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd
JUN 11 1954
BUREAU OF MINES
Denver, Colorado

June 9, 1954

Memorandum

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

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-E621, Timco, Incorporated, Tooele County, Utah.

Attached are 6 copies of a memorandum prepared by M. H. Howes concerning recommendations for certification of discovery on property included under the subject contract.

Contract work consisted of exposure of a tactite zone at the surface by stripping with a bulldozer. A tactite zone approximately 1,200 feet in strike length was stripped. Samples indicate that sections of the mineralized area assay from .036 to 0.35 percent WO_3. It is believed that an inferred reserve of ore, assaying 0.3 percent WO_3, may total 8,500 tons. Ore?

The inspecting engineer recommends that a certification of discovery be issued to cover property explored under this contract. I concur with this recommendation.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

S. R. Wilson June 8, 1954

M. H. Howes

Docket No. DMEA-3066 (Tungsten), Contract Idm-E621, Timco, Incorporated, Tooele County, Utah. Recommendation for certification of discovery

The area from which production will be subject to the Government's percentage royalty is the same as that set forth in Article 2 of Contract Idm-E621.

Rocks in the vicinity of the property are Ochre Mountain limestone of Mississippian age and a quartz monzonite intrusion. Scheelite-bearing tactite occurs from 1 to 6 feet in thickness along the limestone-intrusive contact, which strikes in a southeasterly direction and dips gently to the southwest. The tactite is composed largely of dark brownish-red garnet. Scheelite is disseminated through portions of the tactite, and in several places is concentrated into pods of ore.

Approximately 1,200 feet of tactite was exposed in 2,000 feet of bulldozer stripping during the exploratory project. Several samples were taken along the tactite exposure, assaying from 0.036 to 0.35 percent WO_3, and <0.01 to 0.04 percent Mo.

During World War II an open-cut operation in the tactite at the east end of the Last Chance No. 1 (Am'd.) claim produced two shipments as follows: December 30, 1942, 55.66 tons of ore that assayed 0.75 percent WO_3; January 15, 1943, 50.48 tons of ore that assayed 0.54 percent WO_3.

It is estimated that the property contains the following inferred ore reserves:

East of open cut	500	tons,	0.3	percent	WO_3
Open cut	3,000	"	"	"	"
West adit	3,000	"	"	"	"
West of west adit	2,000	"	"	"	"
Total	8,500				

Recommendation is made for certification of discovery on the Timco, Incorporated, tungsten property, Tooele County, Utah.

M. H. Howes

M. H. Howes

C

Docket

224 New Customhouse
Denver 2, Colorado

August 3, 1954

WSM

Mr. L. B. Gardner, Vice President
Tisco Incorporated
536 Atlas Building
Salt Lake City, Utah

Re: Docket DMEA 3066 (Tungsten)
Contract Idm-E621

Dear Mr. Gardner:

Reference is made to our letter of June 14, 1954, wherein we stated that we would appreciate receiving the final engineering and geologic report in conformance with Article 5-(b) of the contract. Inasmuch as we have not had a reply or action on our request, we again remind you that the final engineering and geologic report is to be rendered this office under the provisions of the contract before final payment to you can be effected.

We are desirous of closing this account at an early date. Therefore, we will appreciate receiving your report at your earliest convenience.

Very truly yours,

W. H. KING

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

JWT:mn

cc Subject
Chron
Chairman, Operating Committee
SRWilson
AHKoschmann
RJRoberts
JWTownsend

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

JUL 12 1954

224 New Customhouse
Denver 2, Colorado

July 6, 1954

Memorandum

To: George C. Selfridge, Chairman, Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Last Chance claims, Tooele County, Utah.

Reference is made to your letter of June 24, 1954, wherein you request to be advised of the present status of this contract.

For your information in the matter, the project work was completed in December 1953, and we are advised by the Field Office that final reports will be available for forwarding to you in about two weeks.

W. H. King

Docket
Surname
Rutledge
Martin
Selfridge
Holden
Attorney

JUN 2 1 1954

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

Re: Contract No. DMEA [illegible] - Tungsten
Tinsto Incorporated
Last Chance claims
Nevada County, Utah
Contract No. [illegible]

Dear Mr. King:

Reference is made to the subject contract. In reviewing this contract and the Region IV monthly reports, it was noted that the exploration work under the above-referenced contract was completed in December 1953.

Please advise us of the present status of this contract.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

APPROVED:

J. H. Hedges

Director, Bureau of Mines (JHB)

D. M. Larrabee

Director, Geological Survey (JHB)

FARutledge:foc
6-21-54
cc to: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg IV
R. W. Geehan, USBM
T. P. Thayer, USGS

R.C.H.

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

224 New Customhouse
Denver 2, Colorado

February 5, 1954

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Incorporated, Tooele County, Utah

Enclosed are the original and two copies of Amendment No. 2 to Contract Idm-E621 which has been executed to authorize bulldozing in a westerly direction, as well as easterly, from the westernmost adit. Also enclosed are data relative to the amendment.

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

Enclosures

RECEIVED
FEB 26 1954
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

January 13, 1954

Memorandum

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

From: Chief, Minerals Development Branch, Mining Division
Region IV

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-2621,
Timco, Inc., Tooele County, Utah.

Enclosed are six copies of a memorandum prepared by M. H. Howes concerning the location of bulldozer stripping allowed by the subject contract.

During the progress of the work the intensity of scheelite mineralization in a westerly direction from the westernmost adit on the Last Chance No. 1 claim, indicated the desirability of conducting part of the stripping in this direction. Wording of the contract may be construed as meaning that all stripping is to be conducted in an easterly direction from the westernmost adit.

It is recommended that the stripping to the west of the adit be allowed under terms of the contract.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

January 11, 1954

S. G. Wilson

M. H. Howes

Docket No. DMEA-3066 (Tungsten), Contract Idm-1621, Timco, Inc., Tooele County, Utah. Memorandum report of recommendation for approval of part of project.

In the description of the work the contract states: "Expose by bulldozing the tactite on the quartz-monzonite-limestone contact from the westernmost adit to the end of the contact 1,000 feet to the east." As stripping of the tactite in the vicinity of the westernmost adit progressed, strong, mineralized tactite was exposed leading to the west of the adit. It appeared desirable to follow this strong mineral showing westerly, even though the contract specifies that the work shall be done to the east. About 500 feet of stripping to the west of the adit has exposed the best mineralization encountered in the entire project. In addition to the above described 500 feet of work, approximately 1,500 feet of stripping was done to the east of the adit, which exposed a thinner tactite bed and weaker mineralization. It is, therefore, recommended that the 500 feet of stripping to the west of the adit be approved under the terms of the contract.

M H Howes
M. H. Howes
SGW

400

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1954

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

224 New Customhouse
Denver 2, Colorado

February 1, 1954.

WSM

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 3066 (Tungsten), Contract Idm-E621, Timco Inc., Tooele County, Utah.

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 December 1953.

W H King
W. H. King

Enclosures

Doc
MF-104

R.B.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1954

Administrative Audit Difference Statement

Date: Jan 25, 1954
Payee's
Reference: Progress Report
December, 1953

Timco, Inc.,
536 Atlas Building,
Salt Lake City, Utah
Idm-D621

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

75% of..... Amount Claimed $ 1368.75

Difference $ 200.00

Amount Approved $ 1168.75

The reason for the difference was due to:

$200 is being withheld from payment due operator pending release of final Report of Review by Contract Administration and Audit Division and Receipt of Operator's Final Report.

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

Very sincerely yours,

N. E. Stokes
Audit Section

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1954

224 New Customhouse
Denver 2, Colorado

January 18, 1954.

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah. - Operator's Monthly Progress Report for the period December 1953.

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

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

An amendment is being prepared to allow stripping to the west of the westermost adit.

An amount of $200.00 is to be withheld from the payment due the Operator pending release of the final Report of Review by the Contract Administration and Audit Division and receipt of the Operator's Final Report.

Date of Report	December 28, 1953.
Date Received in Field Office	January 6, 1954.
Date Received in Region Office	January 15, 1954.

W. H. King

W. H. King

Enclosures

RDB:cwm

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

January 13, 1954

Memorandum

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

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA-3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah. MF-104 forms for December 1953.

The attached copies of MF-104 forms list expenditures made under the subject contract during December 1953. The project was started and completed during December, but assaying allowed by contract has not been reported, thus an additional MF-104 form report will be prepared at a later date. The project work was inspected by M. H. Howes December 18, 1953 and work verified by observation and measurement.

The short-form contract and amendments thereto allow a total of 133-1/3 hours of bulldozer stripping at $15.00 per hour. In addition, the contract permits a total of $100.00 for drayage of the bulldozer. The operator has reported a total of 115 hours of bulldozer operation at $15.00 per hour and $100.00 for drayage.

The bulldozer stripping disclosed a mineralized tactite zone along the quartz monzonite-limestone contact. The most favorable area is near the west end of the Last Chance No. 1 claim.

Expenditures and work shown on the MF-104 forms are in conformance with the contract. Recommendation is made that the operator be reimbursed in the manner shown in the inspecting engineer's progress report.

The MF-104 forms were received from the operator January 6, 1954.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

S. R. Wilson January 12, 1954

M. H. Howes

Docket No. DMEA-3066 (Tungsten), Contract Idm-2621, Timco, Inc., Tooele County, Utah. Progress report for December 1953.

The property was inspected December 4, 1954, in the company of F. L. Maxwell, after notification was received that the company was ready to start the project. The property was again inspected December 18, 1954, when the bulldozer stripping had been completed. It is verified that approximately 2,000 feet of stripping has been accomplished in 115 hours, as reported on form MF-104A.

Bulldozer stripping along the quartz-monzonite-limestone contact, in the vicinity of the westernmost adit, encountered a bed of tactite which extends both easterly and westerly. Strong mineralization was discovered to the west, and tactite from 1 foot to 6 feet thick was uncovered for a distance of approximately 500 feet in that direction. Assays of four samples are as follows:

Sample	Description and location	Percent WO_3	Mo
T-1	Tactite 5' thick, 10' long; 500' NW adit	0.07	<0.01
T-2	Tactite 5' thick, 20' long; 200' NW adit	.32	<.01
T-3	Tactite 5' thick, 10' long; 50' NW adit	.35	<.01
T-4	Tactite 5' thick, 15' long; directly above adit	.19	<.01

About 1,500 feet of stripping exposed approximately 700 feet of tactite and several spots of minor scheelite mineralization to the east and south of the adit. The limestone capping, for a distance of about 300 feet to the east of the adit, is too thick and tough to bulldoze.

The operator's narrative report is considered to be adequate.

Payment is approved for $1,368.75, which is 75 percent of the allowable cost of $1,825.00.

M H Howes
M. H. Howes
SRW

Form MI-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.

U. S. Bureau of Mines
RECEIVED
JAN - 6 1954
Defense Minerals Administration
RECEIVED
FEB - 4 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1953 Docket No. DMEA 3066 Contract No. Idm-E621
Operator's Name Timco Incorporated Minerals TUNGSTEN
Address 536 Atlas Bldg. Salt Lake City, Utah.
Contract Amount, $ 2,250.00 Government Participation: 75 % Amount, $ 1,687.50

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Exploration~~ Short Form Contracts:						
Drilling						
Bulldozing	1,725.00	None	1,725.00			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Bulldozer Drayage	100.00	None	100.00			
(8) Contingencies (specify):						
TOTALS	1,825.00	None	1,825.00	1825.00	- -	1825.00

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

Date Dec. 28, 53 Payee TIMCO INCORPORATED.

Per A. J. Maywell Title Secretary

*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:

$ 1168.75

Signature
(Authorized Certifying Officer)

Date 1/25/54 Vou. No. DMA 54-75

(See other side)

$200 is being withheld pending release of final Report of Review by Contract Administration and Audit Division and receipt of the Operator's Final Report.

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E621 in accordance with the terms of the contract.

Signature M. H. Howes Title Mining Engineer Date Jan. 11, 1954

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

Signature W. H. King Title Executive Officer Date JAN 18 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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1954

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

Month of December 1953 Docket No. DMEA 3066 Contract No. Idm-E621
Operator's Name TIMCO INCORPORATED. Minerals Tungsten
Address 536 Atlas Bldg. Salt Lake City, Utah.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping	hours	$ 1725.	115	1725.00	115	15.00	133X/3	2,000.00
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1,725.00	115	1725.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Drayage		100.		100.00				100.00
TOTAL COSTS		1,825.00	115	1825.00				2,100.00

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 Dec. 28, 1953 Operator TIMCO INCORPORATED

Per [signature] Title Secretary

REMARKS:

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

U. S. GOVERNMENT PRINTING OFFICE 205676

[illegible] OF THE INTERIOR
[illegible] Mineral Administration
RECEIVED
[illegible] 1954

January 2, 1954

[illegible] OF WORK [illegible]
[illegible] 1953 BY TUCO, INC. [illegible]
[illegible] CONTRACT NO 14H-3021 DOCKET
[illegible] 2060

On December 4, 1953 a D-6 Caterpillar bulldozer under contract from Gibbons and Reed, Salt Lake City, Utah arrived on the property and during the period December 4 to December 19, 1953 the bulldozer completed 115 hours of work, on the claims indicated on the attached sketch.

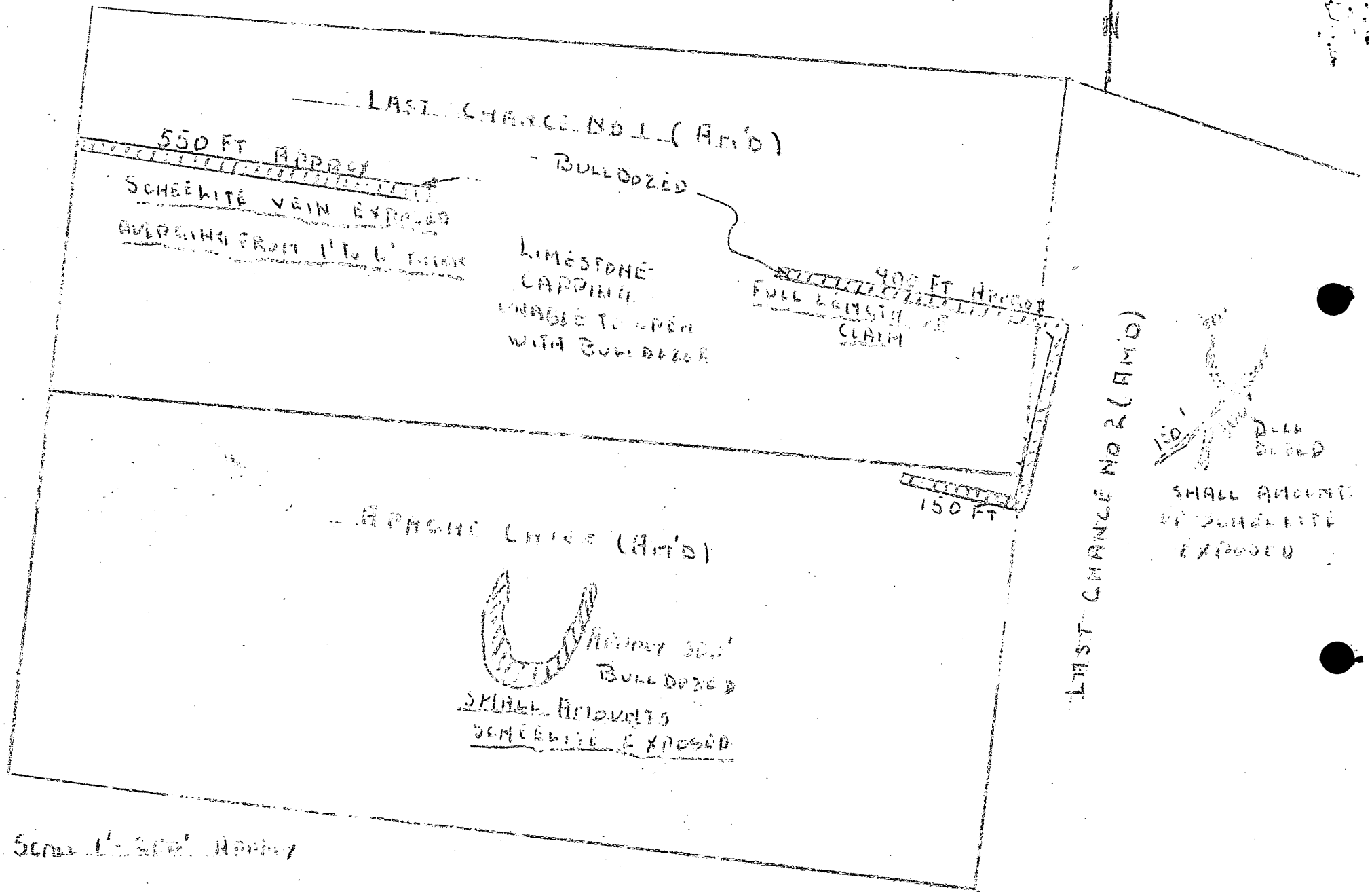
An exposure of a strong scheelite vein varying in thickness was exposed on the west end of the last Chance No. 1 Claim. This vein varied in thickness from about 1 foot to approx. 6 feet thick and was laying under the limestone capping all along the strike of the vein.

In the center of the vein the limestone capping was so thick that the dozer was unable to move the capping therefore the dozer was again used along the east contact of the same vein and approx 700 feet of contacts were exposed on the east end of the claim. The thickness of the vein was not as great as at the west end of the claim and varied from about 6 inches to about 2 feet wide.

The dozer was then moved to the Last Chance No. 2 claim where some high grade scheelite or stringers had been previously found however after making a determined effort to uncover the mother lode of the rich grade float only a few pieces not in position were located and the work was stopped.

The dozer was then moved to the Apache Chief and an area as indicated on the attached sketch was bulldozed, however again only a small amount of scheelite was located but it was not in its original position therefore any accurate conclusions at this time cannot be arrived at.

Mr. Fred Cook, owner of the above claims, feels that several thousand tons of commercial ore has been exposed on the Last Chance No. 1 claim and after a through study has been made of the various exposures can be made more accurate estimates and grade of ore can be arrived at



TIMCO INCORPORATED

BULLDOZING COMPLETED BETWEEN DEC 4, 1953 & DEC. 19, 1953
DOCKET DMEA 3066 CONTRACT NO 1 DM E 621

JAN 2, 1954

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

DEPARTMENT OF THE INTERIOR
General Counsel's Administration
RECEIVED
JAN 4 1954

224 New Customhouse
Denver 2, Colorado

December 24, 1953

Memorandum

To: C. C. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 3066 (Tungsten), Contract Idm-E621, Timco, Inc., Tooele County, Utah

Enclosed are the original and two copies of Amendment No. 1 to Contract Idm-E621 which has been executed to amend Exhibit "A" to change the hours and rate of bulldozing. Also enclosed are three sets of data relevant to the amendment.

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

RECEIVED
JAN 20 1954
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

17

COPY

TIMCO, INC.
536 Atlas Building
Salt Lake City, Utah

December 2, 1953

J. W. Townsend, Ex. Officer, DMEA
U. S. Dept. of the Interior
224 New Customhouse
Denver 2, Colorado

Dear Mr. Townsend:

Re: Docket DMEA 3056
Contract Ibm-E621

Reference is made to your letter of November 17, 1953 enclosing the original and five copies of Amendment No. 1 to subject contract which was prepared in conformance with our letter of October 26, 1953 to effect a change in the bulldozer size and use thereof.

After a further study of the effectiveness of a Caterpillar 4, it was determined inadvisable to use a Caterpillar 4.

Mr. [illegible] Wilson, U. S. Bureau of Mines, 1600 S. 1st So., Salt Lake City, Utah was consulted regarding the feasability of using the largest size Caterpillar i.e., an 8 in lieu of a 4 to obtain maximum exploration of the Last Chance No. 1 claim also the Last Chance No. 2 and the Apache Chief claims. Of course Timco Incorporated will pay for any exploration done on the Last Chance No. 2 claim, and the Apache Chief which are adjacent to the Last Chance No. 1.

Mr. Wilson felt that an amendment to subject contract would be agreeable with your agency substituting a Caterpillar 8 for the International T. D. 14, therefore a Caterpillar 8 bulldozer was dispatched to the property on December 1st, and is now standing by ready to go to work as soon as a Bureau of Mines Engineer arrives on the property which is scheduled for December 4th.

In view of the above developments it is desired that amendment No. 1 be re-written as follows:

AMENDMENT TO CONTRACT: No. Idm-3621

Contract Docket No. DMA 3066, dated October 5, 1953, between the United States of America and Vinco Incorporated is hereby amended as follows, effective as of the date of said contract:

> Referring to "Exhibit A" attached to Exploration Project Contract Form IF-200(A) (February 1952) caption "Description of the work" in the sentence "The bulldozer used is to be an International TD-11 or equivalent thereof" change the words "International TD-11" to read "Caterpillar D".
>
> Further referring to said EXHIBIT A, caption "Estimated Costs of the Project" in the sentence starting with "1/ 150 hours bulldozing at $12.50 per hour," change the figures "150" to read "133 1/3" and change the rate figures "12.50 to read $15.00.

We are returning herewith the proposed amendment No. 1 to our contract unsigned and respectfully request a new amendment be drawn in accordance with the above requested changes and returned to Vinco Incorporated for necessary processing.

Very truly yours,

/s/ C. [illegible] Chettler

C. [illegible] Chettler, President
VINCO, INCORPORATED

Inclosures - 1

1 Unsigned [illegible] of Amendment

No. Idm-3621

No. 1

[redacted]

AMENDMENT OF CONTRACT: No. Idm-L621

Contract Docket No. DMEA 3066, dated October 5, 1953, between the United States of America and Timco Incorporated 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(A) (February 1952) caption "Description of the work" in the sentence "The bulldozer used is to be an International TD-14 or equivalent thereof" change the words "International TD-14" to read "Caterpillar 4".
>
> Further referring to said EXHIBIT A, caption "Estimated Costs of the Project" in the sentence starting with "1/ 160 hours bulldozing at $12.50 per hour," change the figures "160" to read "200" and change the rate figures "12.50" to read $10.00".

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

Dated _____

TIMCO INCORPORATED

By _____

(SEAL)

UNITED STATES OF AMERICA

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

C
O
P
Y

TIMCO, INC.
530 Atlas Building
Salt Lake City, Utah

October 26, 1953

Mr. W. H. King, Executive Officer
U. S. Department of the Interior
224 New Customhouse
Denver 2, Colorado.

Dear Mr. King:

Exploration Project Contract
No. Idm-521, Docket No. BMEA-3066.

Timco Inc. is ready to commence the exploration project described above.

We have already completed considerable bulldozing work with both an International TD-14 and a Caterpillar 4, and our experience indicates that the Caterpillar 4 bulldozer is far superior to the International TD-14 for this type of work.

In view of the above experience it is requested that subject contract be amended as follows:

Under "Exhibit A Description of Work" as written "The bulldozer used is to be an International TD-14 or equivalent thereof."

substitute the following sentence:

The bulldozer used is to be a Caterpillar 4 or equivalent thereof.

Under "Exhibit A Estimated Costs of the Project" as written

1/ "160 hours bulldozing at $12.50 per hour, including supervision, operator, repairs and any and all other costs incurred in completing the bulldozer work----------$2,000.00."

substitute the following paragraph:

Estimated Cost of the Project

1/ 200 hours bulldozing at $10.00 per hour, including supervision, operator, repairs and any and all other costs incurred in completing the bulldozer work----------$2,000.00

All other terms and conditions of the Exploration Project Contract to remain the same and in full force.

Mr. J. K. Wheeler, partner of Wheeler Kershaw Co., Caterpillar Distributors, Salt Lake City, Utah advises that the rental for a Caterpillar 4 bulldozer in the Gold Hill, Utah area is $10.00 per hour including the operator, fuel, etc.

Request that you advise the results of this amendment request as soon as possible in order that we can immediately commence this exploration project.

Very truly yours,

(signed) C. A. Schettler by H.A.S.

President

FILE COPY
SURNAME:

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

[illegible]

Chairman
Martin
Phelps
Lawrence
Farraber
Hedges
Selfridge
Fitzgerald
Fujimoto

[illegible] - [illegible]
[illegible] 7, 1953

[illegible], [illegible] Executive Officer, [illegible], Denver, Colorado

[illegible] 7, Docket 3066, Contract [illegible], [illegible], Inc.

Contract provides use of International TD-18 bulldozer or equivalent. It has been found that the work can be done better with a more powerful bulldozer, charging cost from [illegible] to [illegible] per hour, it is within your authority to draw an amendment to this effect provided that total cost remains unchanged.

George C. Selfridge
Chairman, Operating Committee

(2B)

[illegible]:foc
12-7-53
cc: [illegible] Docket
[illegible] Code 100
[illegible] Sec. 4
[illegible] Mgr. Leasing [illegible]
Operating [illegible]
[illegible] Loehnn, [illegible]
[illegible] Meyer, [illegible]
Public Liv., [illegible]

SENT
DEC 7 1953
Clerical Service Section

R.C.S.
12-7-53

C. O. Mittendorf
12/4/53
4:00

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 8 - 1953

DN 235 BUREAU MINES 12-4-53 2-00 PM

C O MITTENDORF

REFERENCE DOCKET 3066, CONTRACT IDM-E621, TIMCO INCOPXXX INCORPORATED. OPERATOR REQUESTS AMENDMENT TO DECREASE HOURS OF BULLDOZING FRMXXX FROM 160 TO 133-1/3 AND INCREASE HOURLY RATE FROM $12.50 TO $15.00 TO ENABLE USE OF MORE POWERFUL TRACTOR. COST OF PROJECT TO REMAIN UNCHANGED. IS THIS CHANGEWXXX CHANGE WITHIN OUR AUTHORITY UNDER SECRETARY'S ORDER NO. 2684 SECTION 4/8/XXX SECTION 4/B/. PLEASE TELETYPE ADVICE.

W H KING

Denver, Colo.

DEC 7 8 43 AM 5
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

400
FILE COPY
SURNAME:

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

Hopkins
Martin

November 16, 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Review of Contract
Docket No. DMEA 3066 - Tungsten
Timco, Inc.
Star Dust Mines, Inc., Tooele County, Utah
Contract Idm-E621

The subject contract was prepared and executed by W. H. King, Executive Officer, DMEA Field Team, Region IV.

The applicant requested exploration assistance in the amount of $30,000.00 to explore for tungsten on Last Chance #1, Last Chance #2 (amended) and Apache Chief (amended) claims under lease from the Star Dust Mines, Inc. The work was to consist of drilling cross-cutting and bulldozing.

The field examiners recommended bulldozer stripping of a scheelite-bearing tactite outcrop in the amount of $2,250.00 which was agreeable to the applicant.

Rocks in the area consist of limestone of Mississippian age which has been garnetized at intervals along the margin of a quartz monzonite intrusive and a related dike.

Scheelite occurs disseminated in the tactite zone that varies from a few inches to several tens of feet in width along the border of the intrusives.

Production from the property consisted of two shipments from the Last Chance claim as follows:

Dec. 30, 1942 - - 55.66 tons that assayed 0.75% WO_3

Jan. 15, 1943 - - 50.48 tons that assayed 0.54% WO_3

Average 0.65% WO_3

R.C.B. 11-19-53

Three samples taken by the examining team gave the following analytical results:

Description		PERCENT WO_3	PERCENT Mo
Bureau of Mines #1	Face of 30' Adit	0.28	0.02
" " " #2	" " 12' Raise	0.036	0.02
" " " #3	Open cut where shipped ore was mined.	0.26	0.04

The examining team estimates that there are 1300 tons of ore which may average 0.65% WO_3 in an area of 8000 sq. ft. where the two shipments of 106.14 tons were mined.

The work proposed by the Field Team is described in Exhibit "A" of the contract as follows:

"Expose by bulldozing the tactite on the monzonite-limestone contact from the quartz-adit to the end of the contact at the easternmost side of the dike by bulldozing along the north side of the dike approximately 8000 square feet of the thin cap of limestone between the main quartz monzonite intrusive to the north and the dike to the south".

The Iron and Ferro-Alloys Division believes that it is not in accordance with the best practice to estimate the ore reserves as having an average grade of 0.65% WO_3 after samples taken in the area showed a grade of 0.26% WO_3. We are of the opinion that to obtain a more nearly accurate estimate, the grade of the ore recently sampled should have been given at least equal consideration with the grade of the ore previously shipped.

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

JHopkins:foc
11-17-53
cc: Docket
Code 400
Admr. Reading File

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

224 New Customhouse
Denver 2, Colorado

October 8, 1953

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 3066 (Tungsten), Timco, Inc., Tooele County, Utah, Contract Idm-E621

Enclosed are four copies of the examination report on Docket No. DMEA 3066. A contract has been prepared and is in effect.

W. H. King

W. H. King

Enclosures

07 - Site
EXAM RPT.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

September 16, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Report of Examination, DMEA Docket 3066 (Tungsten), Timco, Inc., Tooele County, Utah.

Enclosed are nine copies of a joint engineering and geologic report on the subject docket.

The applicant requested $30,000.00 to explore the property by drilling, crosscutting and bulldozing. He now agrees with the field examiners that bulldozer stripping and sampling will serve to sufficiently explore the property.

The field examiners recommend bulldozer stripping in the amount of $2,470.00 and we concur in this recommendation.

W. H. King

W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

August 24, 1953

Memorandum

To: W. N. King, Executive Officer, DMEA Field Team, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: DMEA-3066, Timco, Inc., Lessee, Star Dust Mines, Inc., Tooele County, Utah

Transmitted herewith are the original and eight copies of a joint engineering and geologic report covering examination of the subject tungsten property by M. M. Newes and D. C. Laub. A separate section on Summary, Conclusions and Recommendations is included.

Rocks in the area of property controlled by the applicant consist principally of Ochre Mountain limestone of Mississippian age which has been garnetized at intervals along the margin of a quartz monzonite intrusion and a related dike. Scheelite-bearing tactite is localized in the contact area.

The applicant has proposed stripping the contact zone by bulldozer, crosscutting a total of 400 feet in the tactite, and drilling 11 vertical churn or diamond drill holes along the mineralized zone. The examiners believe that crosscutting and churn or diamond drilling are not feasible under existing conditions. It is suggested that bulldozer stripping and sampling will serve to sufficiently explore the property.

Recommendation is made that the applicant be granted a loan of $3,040 to perform the above-mentioned bulldozer stripping. I concur with this recommendation.

The original brochure is attached.

Stephen R. Wilson

Stephen R. Wilson

Enclosure

1/21/54

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By M. H. Howes and D. C. Laub

Timco, Inc., has requested a DMEA loan of $30,000, under docket 3066, to explore tungsten property in the Clifton district, Tooele County, Utah. The applicant proposes to strip by bulldozer a tungsten-bearing tactite zone; crosscut a total of 400 feet in the tactite; and drill 11 vertical churn or diamond drill holes along the mineralized zone.

Rocks in the area of property controlled by the applicant consist principally of Ochre Mountain limestone of Mississippian age which has been garnetized at intervals along the margin of a quartz monzonite intrusion and a related dike. Scheelite-bearing tactite is localized in the contact area.

A tactite body on the Last Chance No. 1 claim is estimated to contain 1,300 tons of ore assaying 0.65 percent WO_3. A second tactite exposure on this claim may contain several hundred tons of ore of the same grade.

The examining team believes that crosscutting and churn or diamond drilling are not warranted at this time. It is suggested that bulldozer stripping and sampling will serve to sufficiently explore the property under existing conditions.

It is recommended that Timco, Inc., be granted a loan of $3,040 to conduct exploration on tungsten property, as outlined in this report.

TIMCO, INC., LESSEE
STAR DUST MINES, INC. PROPERTY
TOOELE COUNTY, UTAH
DMEA-3066
Tungsten

Engineering and Geologic Report

By M. H. Howes
Mining engineer
Bureau of Mines

and

D. C. Laub
Geologist
Geological Survey

TIMCO, INC., LESSEE
STAR DUST MINES, INC. PROPERTY
TOOELE COUNTY, UTAH

CONTENTS

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Engineering and geologic report	
Introduction	2
Location, topography and climate	2
History and production	3
Ownership and extent	3
Geology	4
Ore deposits	4
Ore reserves	5
Proposed exploration	6
Conclusions and recommendations	7

ILLUSTRATIONS

Fig. 1 Location map, Timco, Inc., Lessee, Star Dust Mines, Inc., Tooele County, Utah
Fig. 2 Geologic map of scheelite deposits of the Last Chance claims
Fig. 3 Claim map

INTRODUCTION

Timco, Inc., made application May 27, 1953, for a Government loan of $30,000 under DMEA docket 3066, for exploration of tungsten claims in the Clifton District, Tooele County, Utah. The claims are under lease from Star Dust Mines, Inc. The applicant proposes to strip by bulldozer a tungsten-bearing tactite zone along the limestone-quartz monzonite contact for a distance of approximately 2,500 feet; to drive eight 50-foot crosscuts through the tactite zone; and to drill 11 vertical churn or diamond drill holes along the mineralized zone for an estimated footage of 1,000 feet.

Examination of the property was made on June 18, 1953, by M. H. Howes, mining engineer, Bureau of Mines, and D. C. Laub, geologist, Geological Survey, to determine the merit of the applicant's proposals. They were accompanied on the examination by F. L. Maxwell, secretary and treasurer of the company.

LOCATION, TOPOGRAPHY AND CLIMATE

Star Dust Mines, Inc. property is situated about 2 miles northwest of Gold Hill, Utah, on the gentle south slope of Dutch Mountain, in T. 7 S., R. 18 W., S.L.B. & M. (unsurveyed).

Gold Hill is 183 miles from Salt Lake City, Utah, via Wendover, Utah. Wendover, on the Western Pacific Railroad, is the nearest railroad shipping point and is 56 miles northerly from Gold Hill (28 miles northwesterly over good, graveled road to U. S. Highway 50 and thence 28 miles over paved road to Wendover).

Vegetation in the vicinity of the property consists mostly of sagebrush and cedars. The climate is semiarid. Summers are hot and dry and winters are cold. Precipitation is ordinarily light.

HISTORY AND PRODUCTION

Scheelite ore was discovered on the Last Chance No. 1 claim in 1942. From this discovery, an open-pit operation produced two shipments as follows: December 30, 1942, 55.66 tons of ore that assayed 0.75 percent WO_3; and January 15, 1943, 50.48 tons of ore that assayed 0.54 percent WO_3. Later in 1943, ore was discovered in an adit 300 feet northwest of the first discovery, in the mineralized zone. During 1952, ore was found in a second adit 500 feet northwest of the first discovery, on the same contact. Scheelite mineralization was traced intermittently along the contact for a distance of approximately 2,500 feet, by the use of an ultraviolet lamp.

OWNERSHIP AND EXTENT

Star Dust Mines, Inc., has issued a lease dated April 24, 1953, for a period of 15 years, to Haydn A. Schettler, president of Timco, Inc., on the following unpatented mining claims:

Claim	Recorded	Book	Page
Last Chance #1	Tooele County Recorder's Office	3-A	221-222
Last Chance #2 (amended)	" " " "	3-A	518
Apache Chief (amended)	" " " "	3-A	222-223

GEOLOGY

Rocks in the area consist of Ochre Mountain limestone of Mississippian age which has been garnetized at intervals along the margin of a quartz monzonite intrusive and a related dike.

The limestone on the Last Chance No. 1 claim apparently forms a syncline which plunges eastward (fig. 2). This structure has been cut by quartz monzonite, and the limestone has been metamorphosed to tactite along the contact. The attitudes of the beds vary between nearly flat dips in the central part of the claim to steep dips in the western part.

ORE DEPOSITS

The ore deposits consist of scheelite-bearing tactite localized along the borders of the intrusive and the adjacent related dike. The tactite consists of dark-brown-to-red garnet rock, portions of which contain disseminated scheelite. The width of the replaced zone varies from a few inches to several tens of feet, and is generally overlain by a capping of coarsely recrystallized, bleached limestone. The largest of the tactite areas is exposed at the open cut shown in the center of the map (fig. 2). At this locality, the tactite is in contact with the quartz monzonite on the north and appears to extend into the hill on a near horizontal plane beneath a thin cover of unreplaced limestone. It is likely that this tactite is continuous with an outcrop of tactite 50 feet to the south along the north side

of a monzonite dike, shown in cross section (fig. 2). The thickness of the tactite on the north is 3 to 4 feet, but it appears to thin to the south. Bureau of Mines sample No. 3, taken here, assayed 0.26 percent WO_3 and 0.04 percent Mo. A recent adit 500 feet to the west exposed about 30 feet of tactite along the contact. The contact dips approximately 45° to the south and the tactite zone may continue downward along the contact for a considerable distance, although at the surface the limestone is unreplaced. Bureau of Mines sample No. 1, taken in the adit, assayed 0.28 percent WO_3 and 0.02 percent Mo. Between the above-mentioned areas, a small adit has been driven into the intrusive for a distance of 38 feet. A 12-foot raise at the face cut tactite. Bureau of Mines sample No. 2, taken here, assayed 0.036 percent WO_3 and 0.02 percent Mo. Other outcrops of tactite occur along the contact east of the largest area. None of these occurrences has been adequately explored and the tactite is exposed only in small, open pits.

ORE RESERVES

There are no ore reserves on the Last Chance No. 2 (amended), or the Apache Chief (amended) claims. The Last Chance No. 1 claim (fig. 3) is only slightly developed, and the exposures on the slopes are poor. The largest body of tactite, shown near the center of the map (fig. 2), is exposed over an area of 8,000 square feet and is estimated to contain 1,300 tons of tactite which may average 0.65

percent WO_3. Two carload shipments from the Last Chance No. 1 claim assayed 0.65 percent WO_3.

The exposure 500 feet to the west may contain several hundred tons of ore of about the same grade. The remainder of the contact is so poorly exposed that no estimate can be made as to the volume of possible ore.

PROPOSED EXPLORATION

The applicant proposes to expose the limestone-quartz monzonite contact for 2,500 feet by clearing the overburden with bulldozer. After exposing the contact, eight 50-foot crosscuts and 18 diamond drill holes are proposed at intervals along the contact to check the thickness and continuity of the tactite zone. The examining engineer and geologist do not believe the applicant's proposals are proper and, therefore, submit an exploratory program as follows:

Expose the contact on the Last Chance No. 1 claim by bulldozing between the westernmost adit and the end of the contact 1,000 feet to the east, then expose the contact for 300 feet along the north side of the dike. Remove the thin cap of limestone between the main intrusive to the north and the dike to the south, in the area outlined on the map (fig. 2).

Inasmuch as the applicant intends to mine ores by open-pit methods, this work will expose most of the contact, thus making

possible a more accurate determination of the size and grade of the deposit.

Crosscutting and diamond drilling are not practical at present and would increase the cost prohibitively without additional significant information.

Time Schedule

Stripping (by bulldozer)

1,300 feet contact exposure	80 hours
8,000 sq. feet of limestone capping	80 "
Total	160 hours or 20 days

Cost Estimate

Bulldozer stripping by contract:

160 hours at $16.50 per hour (including drayage)	$2,640.00
Supervision, 1/2 time at $500 per month	250.00
Assaying - 50 samples, $3 per sample	150.00
Total	$3,040.00

CONCLUSIONS AND RECOMMENDATIONS

Rocks in the area of property controlled by Timco, Inc., consist of Ochre Mountain limestone of Mississippian age which has been garnetized at intervals along the margin of a quartz monzonite intrusion and a related dike. Scheelite-bearing tactite has been localized in the contact area. The width of the replaced zone varies from a few inches to several feet.

Ore reserves are estimated at 1,300 tons assaying 0.65 percent WO_3 in the largest body of tactite on the Last Chance No. 1 claim. A second exposure on this claim may contain several hundred tons of ore of the same grade. The contact zone on other claims is poorly exposed and no reliable estimate of ore reserves is possible.

The applicant has proposed a program of stripping the surface area by bulldozer, crosscutting at various points along the strike of the mineralized zone, and churn drilling or diamond drilling from surface stations at favorable locations.

The examining team believes the program proposed by the applicant is not proper, and suggests that exploratory work be confined to surface bulldozer work and sampling.

It is recommended that Timco, Inc., be granted a loan of $3,040 to conduct exploration as outlined in this report.

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

Library Branch
RECEIVED
OCT 1 1953

224 New Customhouse
Denver 2, Colorado

October 7, 1953.

REGISTERED MAIL

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA-3066 (Tungsten), Contract No. Idm-E621, Timco Incorporated, Tooele County, Utah.

Enclosed are the original and two copies of Contract Idm-E621. Copies of this contract 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

RECEIVED
DEC -7 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

SURNAME COPY

Cedeno

Defense Minerals Exploration Administration
Robert E. Adams
Ext. 4127

MDS 4

14.3923.970, Working Fund, Interior, DMEA
October 6, 1953
11:45 a.m.

TO: W.A.King, Executive Officer, Region IV, 224 New Customhouse Bldg., Denver, 2, Colorado

SUBJECT: Assignment of Contract Number

MESSAGE:

REFTEL 10-5-53, [illegible] DMEA 3066, [illegible] Inc., 536 [illegible], [illegible] CITY, [illegible], [illegible] COUNTY, UTAH, [illegible] NUMBER

ID-1671 ASSIGNED THIS CONTRACT.

Frank E. Johnson
ACTING ADMINISTRATOR

AUTHENTICATED:

REAdams/meb
cc to: Adm.Reading File
Mails & Files Br.
Bu. of Mines Audits Div., Rm. 2509
Miss Curtin

SENT
OCT 6 1953
Clerical Service Section

Mr. C. O. Mittendorf
Oct. 5, 1953
3:33 P.M.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 6 1953

DN 235 BUREAU MINES 1-30 PM 10-5-53

C O MITTENDORF

PLEASE ASSIGN A NUMBER TO CONTRACT COVERING DOCKET NO. DMEA 3066, TIMCO INCORPORATED, 536 ATLAS BUILDING, SALT LAKE CITY, UTAH, A NEVADA CORPORATION, COMMODITY TUNGSTEN, PROPERTY LOCATED IN TOOELE COUNTY, UTAH. CONTRACT DATED OCTOBER 5,1953. TOTAL AMOUNT OF CONTRACT $2,250.00. GOVERNMENT,S PARTICIPATION $1,687.50.

WHXXX W H KING

Denver, Colo.

7540 I DME 621

8 29 AM '53
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

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

224 New Customhouse
Denver 2, Colorado

September 17, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination, DMEA Docket 3066 (Tungsten), Timco, Inc., Tooele County, Utah.

The application for Government assistance in exploration work estimated to cost $2,470.00 has been approved by us and a contract is being prepared.

Government participation will be 75 percent or $1,852.50.

Four copies of the Report of Examination will be forwarded when the contract is executed. Two copies of Form 3b are attached.

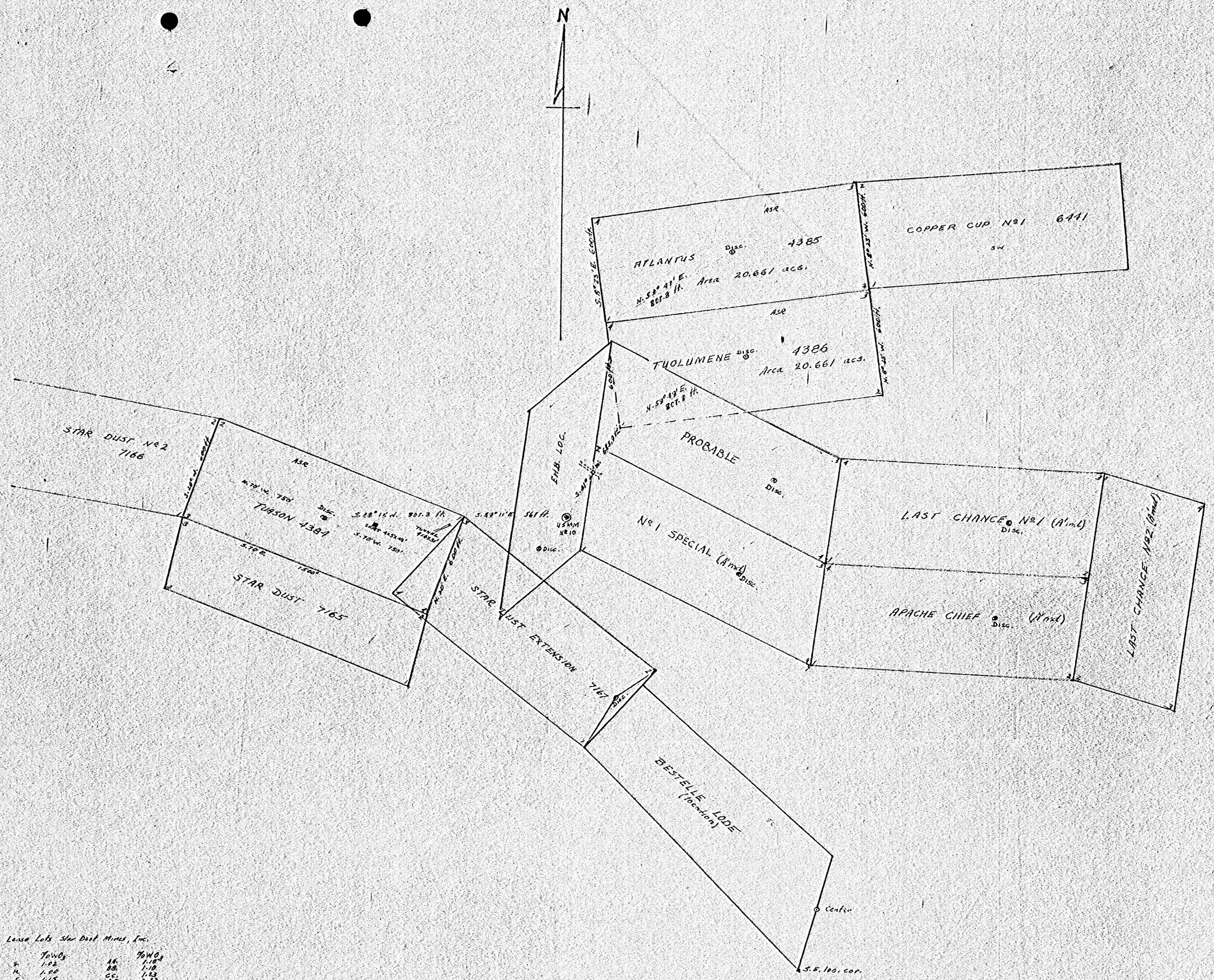
W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures



Lease Lots Star Dust Mines, Inc.

	% WO_3		% WO_3
G.	1.02	AA.	1.03
H.	1.00	BB.	1.10
I.	1.15	CC.	1.23
J.	1.30	DD.	2.33
K.	1.95	EE.	1.95
L.	.90	FF.	1.25
M.	.88	GG.	1.27
N.	.50	HH.	.79
O.	.97	II.	.53
P.	1.10	KK.	.32
Q.	.98	29	.73
R.	1.28	30	.89
S.	1.57	31	.65
T.	1.58	32	1.97
U.	1.93	33	1.65
V.	1.49	34	1.55
W.	1.57	35	1.60
X.	2.58		
Y.	1.05		
Z.	1.40		

Average of above = 1.2137 % WO_3 65 ton (approx.) lots.

0 100 400 1" = 400'

STAR DUST MINING CO. CLAIMS
CLIFTON MINING DISTRICT
TOOELE COUNTY - UTAH

Dec. 28-1950 AMB

FRACTION LODE

513.788 TONS WO_3 ORE FROM FRACTION LODE CLAIM
AV'G. 2.252% WO_3 MINED, SHIPPED TO METALS
RESERE CO. BEFORE AUGUST 1943

TO FRACTION LODE

PROBABLE

ROAD ENDS

VEIN TAPPED 1952
AV'G WO_3 0.557%

VEIN TAPPED 1943

WOODEN ORE BIN

106.14 TONS ORE
0.63% WO_3 AVERAGE
MINED AND SHIPPED
1942-1943

SCHEELITE ORE VEIN

ROAD

DISCOVERY PT.

LAST CHANCE No. 1 (AM'D)

No 1
SPECIAL

LOCATION	PROPOSED WORK	LENGTH	TOTAL	PRICE	TOTAL COST
ITEM 1 THRU 8	ADIT CROSSCUTS	50' EACH	400'	$30.00 FT.	$12000.00
" 9 " 19	VER. DIA. DRILL HOLES	90.9' "	1000'	$8.00 "	8000.00
	STRIP VEIN (BULLDOZER)	2500'	2500'	$16.60 HOUR	2475.00

DISCOVERY PT.

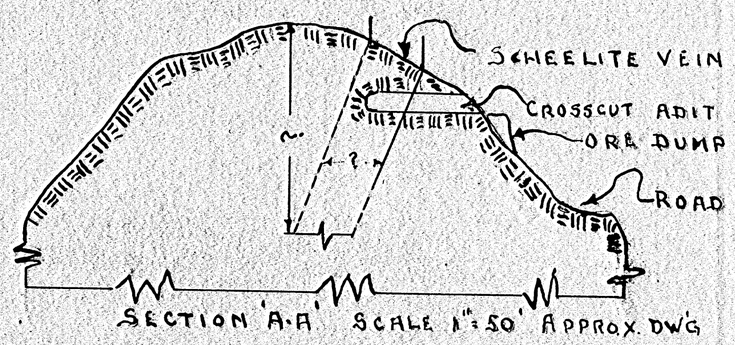
N

APACHE CHIEF (A'M.D.)

LAST CHANCE No. 2 (A'M.D.)

SCHEELITE ORE VEIN

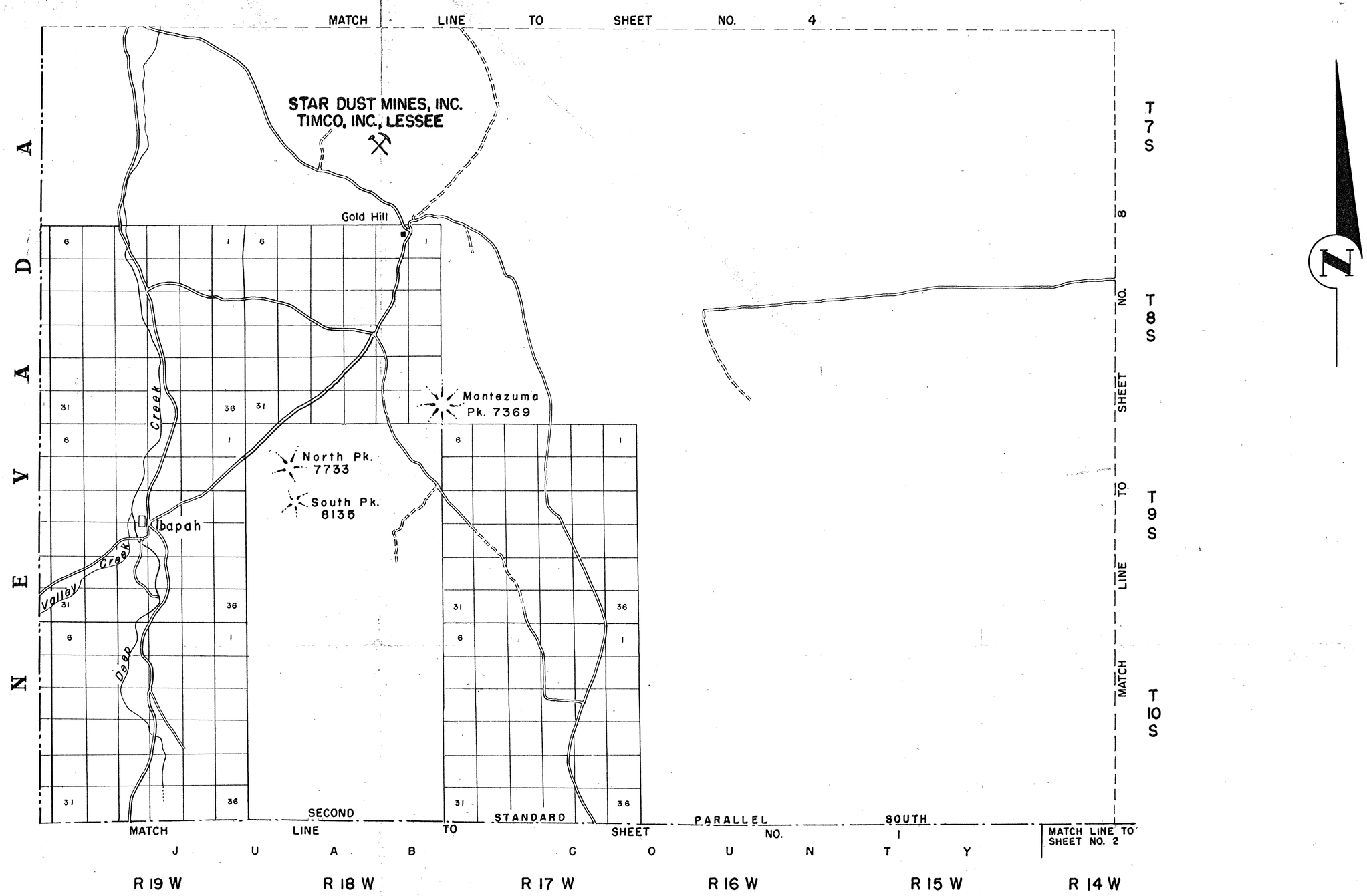
ROAD TO GOLD HILL UTAH

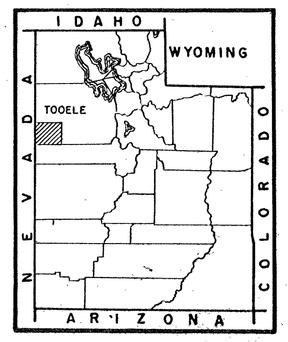


SECTION 'A-A' SCALE 1" = 50' APPROX. DW'G

DW'G #2

STAR DUST MINES, INC.
CLIFTON MINING DISTRICT
TOOELE COUNTY UTAH
SCALE 1" = 100' MAY 18, 1953





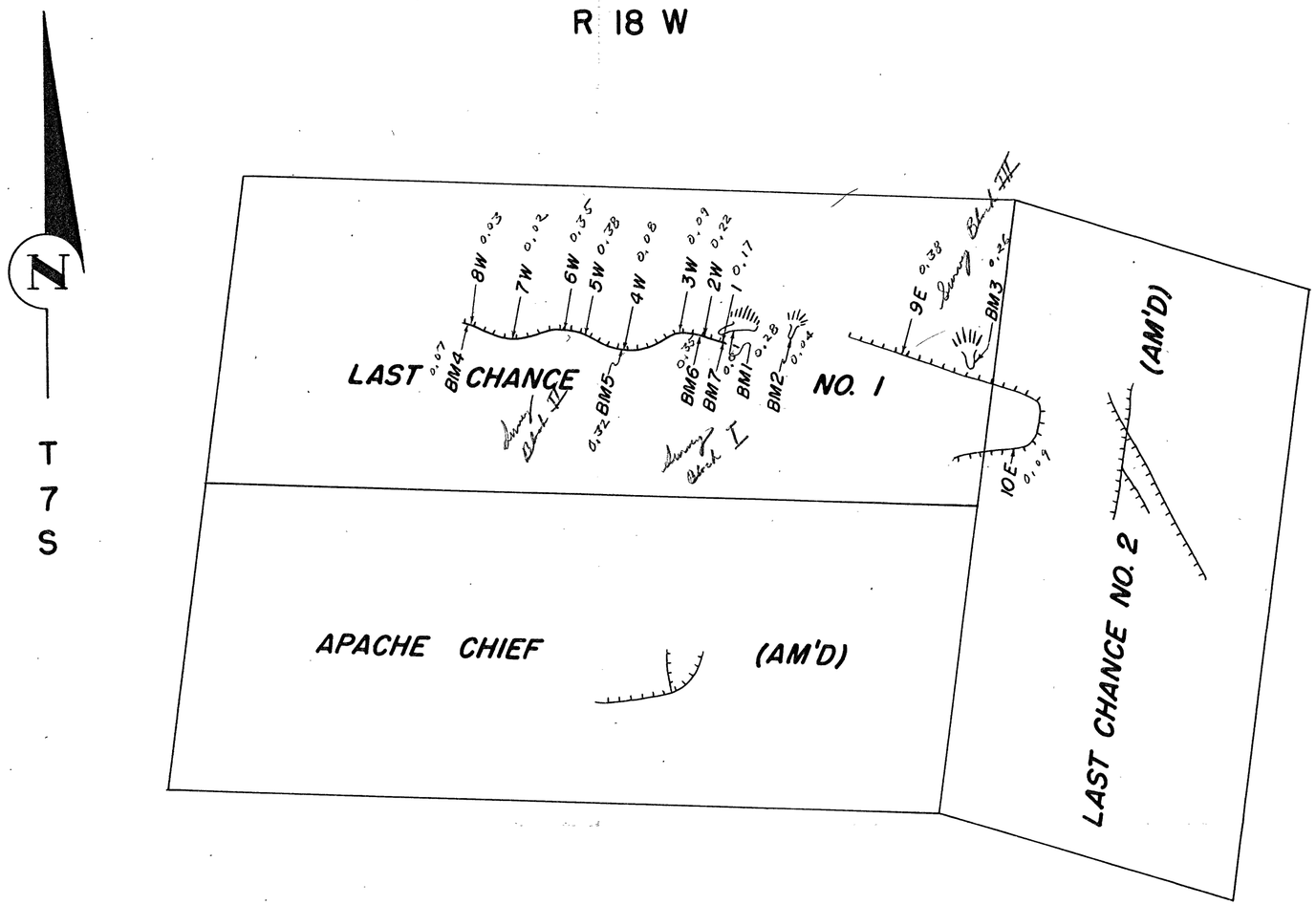
0 1 2 3 4 5 6
SCALE OF MILES

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3066

STATE: UTAH
COUNTY: TOOELE
Sheet 7 of 9
Location Map

ENGINEER: M. H. Howes	DATE: OCT. 27, 1954
TRACED: OCT., 1954, BY: A.P.T.S.	700 - 179 - C
CHECKED:	



SAMPLE LIST		
SAMPLE NO.	WO_3 %	Mo %
BM1	0.28	0.02
BM2	0.04	0.02
BM3	0.26	0.04
BM4	0.07	< 0.01
BM5	0.32	< 0.01
BM6	0.35	< 0.01
BM7	0.19	< 0.01
1	0.17	
2W	0.22	
3W	0.09	
4W	0.08	
5W	0.38	
6W	0.35	
7W	0.02	
8W	0.03	
9E	0.38	
10E	0.09	

LEGEND

BULLDOZER STRIPPING

MINE WORKINGS

0 200 400 600 800

SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 2 DMEA Docket No. 3066

Claim Map showing Bulldozer Stripping and Samples

TIMCO INC.
STAR DUST MINES INC.

TOOELE COUNTY, UTAH

ENGINEER: *M. H. Howes*	DATE: OCT. 27, 1954
TRACED: OCT., 1954; BY: A.P.T.S.	700 - 193 - D
CHECKED:	

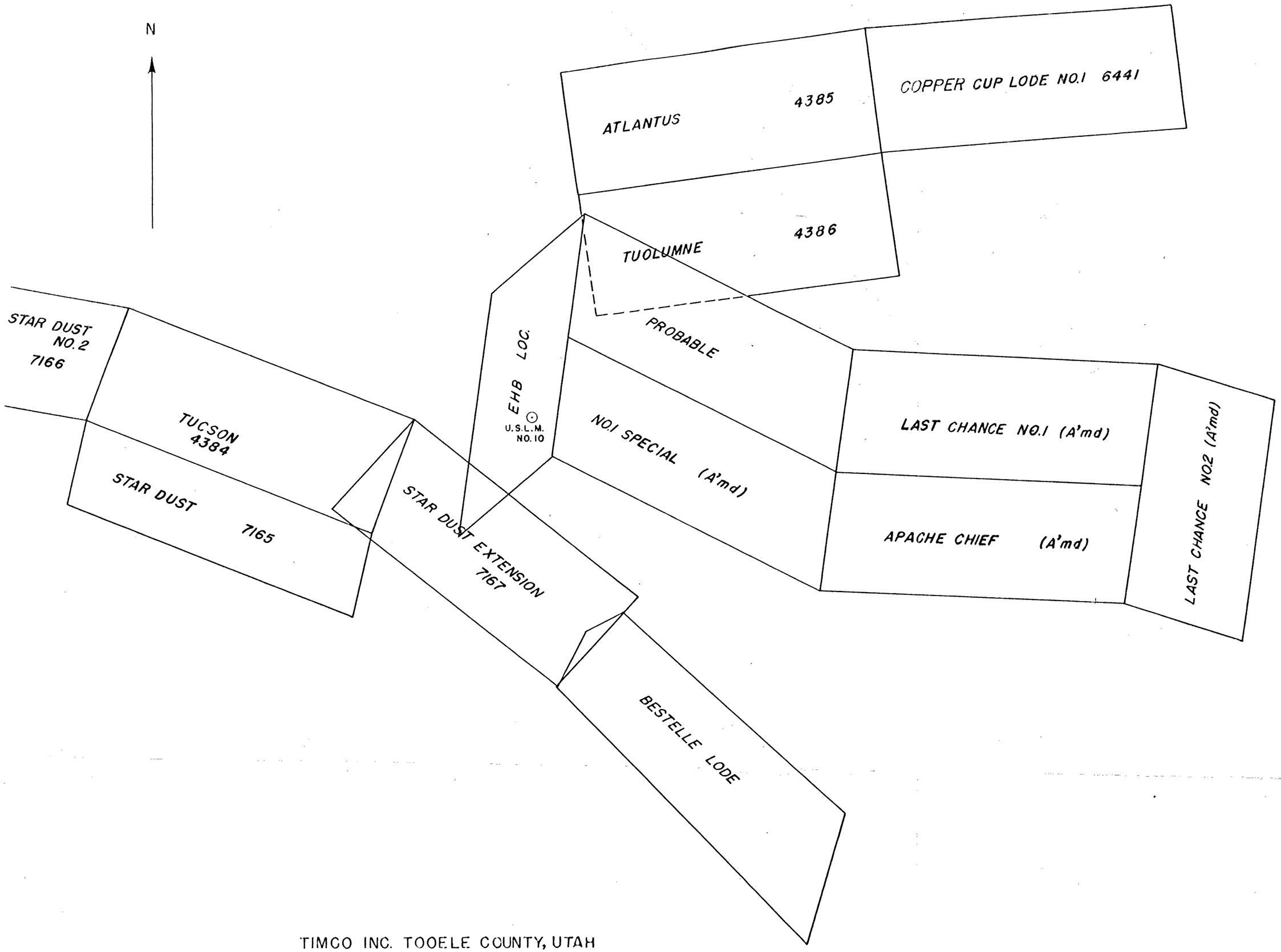
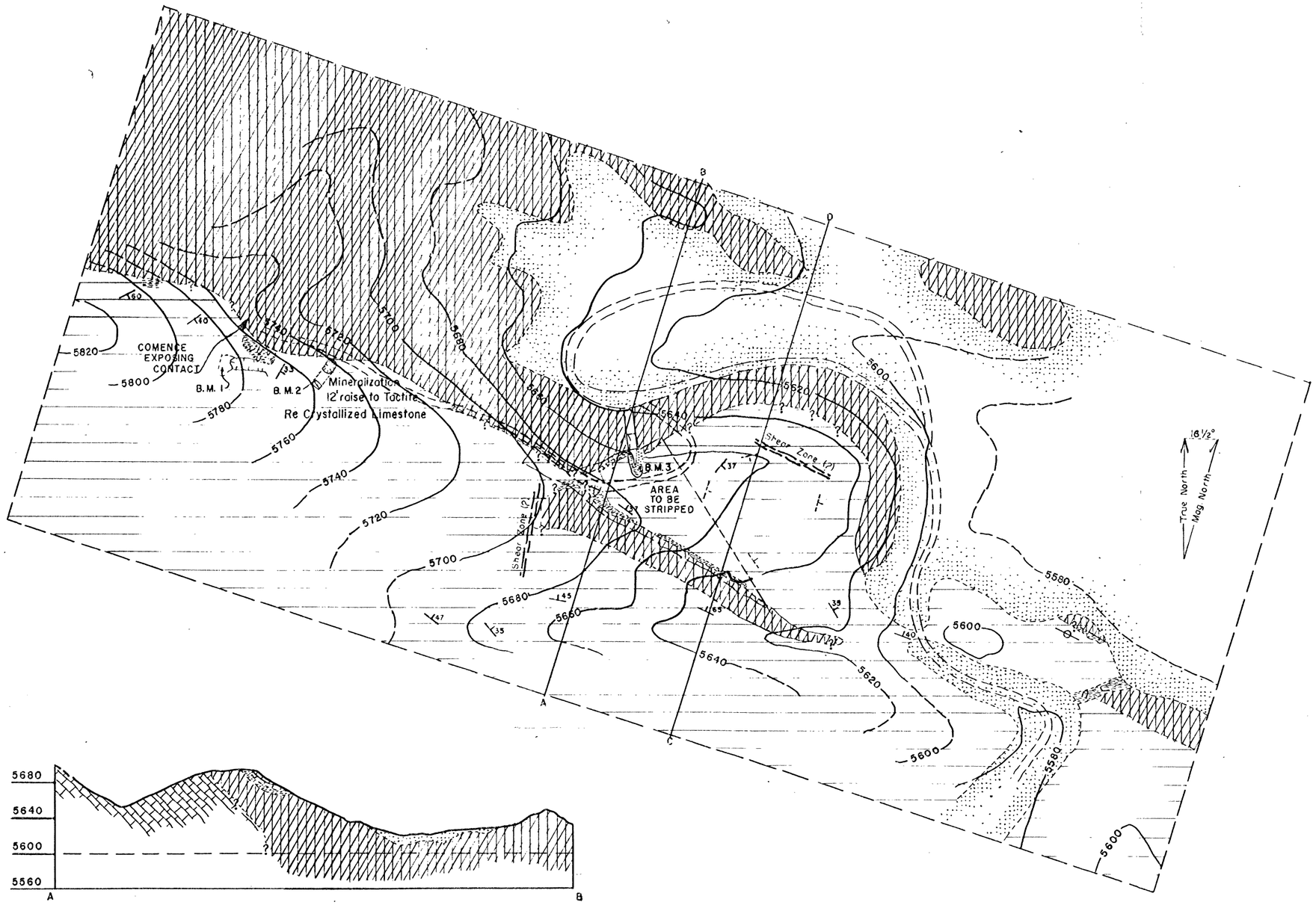


FIG. 3

TIMCO INC. TOOELE COUNTY, UTAH

CLIFTON MINING DISTRICT

0 200 400 800 FEET
Scale



EXPLANATION

Alluvium

Quartz monzonite

Crystaline limestone
Ochre Mountain Formation

Tactite
(Chiefly scheelite bearing)

Shear zone

Strike and dip of beds

Horizontal beds

Portal and open cut

Head of raise

Road

SECTIONS ALONG LINES A-B AND C-D

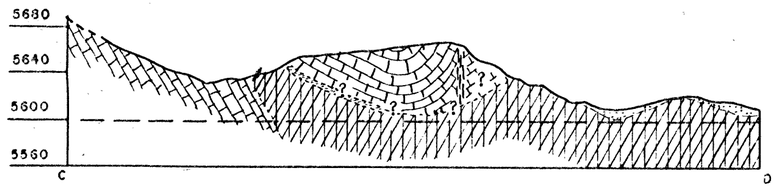


FIG. 2

GEOLOGIC MAP OF SCHEELITE DEPOSITS ON THE LAST CHANCE CLAIMS, STAR DUST MINING COMPANY
GOLD HILL MINING DISTRICT, TOOELE COUNTY, UTAH

0 100 200 300 ft.
Scale
Contour interval 20 ft.

Mapped by S. W. Hobbs and S. E. Clabaugh
U. S. Geological Survey, December, 1942
Additional Geology by D. C. Laub
June 19, 1953