UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

Terminated (or cancelled) without certification. DMEA No. 651

This is the official contract file containing all official records of the project. Duplicate material has been removed. The records contained in the files are checked and are arranged in this manner:

Left Side

Certificate of Audit (Final).

Interim Audit(s).

Report of Review.

Notice of Certification by Agreement
Closing letter
Termination Notice or Agreement.

Recision Notice.

Assignment of Contract.

✓ Contract Amendments (latest on top).

✓ Contract with all exhibits and annexes.

Owner's Consent to Lien.

Subordination Agreement.

Leases and assignments of leases.

✓ Application and attachments.

Schedule of Collections.

Operator's monthly reports and all attachments (latest on top).

Right Side

Project summary.

Work completed analysis.

All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report. (Tab)

Operator's Final Report.

Interim Reports.

✓ On-site Exam Report(s). (Tab)

Settlement Sheets.

If additional folders are required because of volume of records, show folder numbers and contents below:

Maps in folder number _____

Operator's Monthly Reports in folder number _____

R. J. M.
Reviewer's Initials

7973

400

FILE COPY
SURNAME:

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

Selfridge
Mittendorf

DEC 29 1951

BN

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

651

Re: Docket No. ~~DMA-615X~~ - Tungsten
Star Dust Mine
Tooele County, Utah
Exploration Project Contract
Idm-E-170

Dear Mr. Cook:

This is to acknowledge receipt of your request in a letter dated December 15, to Mr. J. H. East, that the subject contract be cancelled because of marketing conditions.

We shall cancel the contract but retain all the information in our files. In the event you would wish to proceed with the work as outlined in the contract it would be best to file a new application in skeleton form and refer to the subject Docket and Contract by number.

Sincerely yours,

C. O. Mittendorf (fw)

Acting Administrator,
Defense Minerals Exploration
Administration.

BN.
12-29

GCSelfridge/hmj
12-27-51

cc to: Adm. Reading File
Mails and Files
Mr. Mittendorf
Mr. Selfridge
Mr. Geehan
Mr. Thayer
Region IV (2)
Docket

AMENDMENT of CONTRACT: No. Idm-E170

Contract Docket No. DMA 651X, dated October 3, 1951, between the United States of America and Star Dust Mine , Incorporated, is hereby amended as follows, effective as of the date of said contract.

> Referring to Exploration Project Contract Form MF-200, Article 3, Exploration Project, after the words "The Operator, within", strike out "thirty (30)" and insert "sixty (60)".

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

Dated November 20, 1951.

STAR DUST MINE , INCORPORATED,

By Fred Cook
President

UNITED STATES OF AMERICA

By J. H. Emmons Jr.
Executive Officer - DMA

DEFENSE MINERAL ADMINISTRATION WASHINGTON, D.C.
NOV 23 9 29 AM '51

MF-200
(June 1951)

Docket No. DMA 651X
Commodity Tungsten
Idm-E 170

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 3rd day of October, 1951, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2]
Star Dust Mine, Incorporated
c/o Mr. Fred Cook
283 East South Temple
Salt Lake City, Utah
hereinafter called the "Operator," as follows:

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

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Utah, County of Tooele described as follows: [3] E.H.B., a located lode mining claim, Clifton Mining District, T. 7 S., Range 18 W., S.L.M.

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

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:
None

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

3. *Exploration project.* The Operator, within Thirty (30) days from the date of this contract shall commence work on a project of exploration for [5] Tungsten; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] Nine (9) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

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

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

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

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

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

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

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

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

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 75 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 11,430.00, which is 75 percent of the agreed estimated total cost of this project, $ 15,240.00.

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

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

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

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

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

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

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

Star Dust Mine, Incorporated
(Operator)

By Fred Cook
President

THE UNITED STATES OF AMERICA

By C D Mitteedorf
Director, Production Expansion Division
Defense Minerals Administration

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

Docket No. DMA - 651X
Star Dust Mine, Incorporated
Exploration Project Contract Idm-E170

EXHIBIT "A"

Exploration Project

Extend present workings on the E.H.B. claim 250 feet westward from the present face of the south drift, and drive two crosscuts northward at intervals to explore the monzonite dike, then raise in two places to intersect surface exposures of scheelite-bearing zones. The object is to explore the tactite zone along the quartz monzonite dike.

The following amount of work is to be done:

1. Extend existing drift 250 feet west of present face.
2. Drive a 50-foot crosscut 90 feet west of present face.
3. Drive second crosscut 30 feet, 115 feet west of first crosscut.
4. Raise from first crosscut approximately 70 feet.
5. Raise from second crosscut approximately 100 feet.

The work to be accomplished is shown on the accompanying map.

Total Estimated Cost of the Project

1.	Labor	$ 7,722.00
2.	Supplies	2,953.00
3.	Equipment to be rented	2,265.00
4.	Equipment to be purchased	450.00
5.	Rehabilitation	200.00
6.	Maintenance	1,250.00
7.	Assaying	300.00
8.	Installing equipment, pipe line, etc.	100.00
	Total estimated cost	$15,240.00

1. Labor calculated on basis of 6-day week, with time and one-half paid for 6th day - $15.00 per average-man shift.

3 men @ $15.00 per day	$45.00
Comp. ins., unemployment ins. Social Security	4.50
Total labor per day	$49.50
3 men per month 26 work days	$1,287.00
3 men for 6 months	7,722.00

2. Supplies to be purchased: continued

Drill steel	$	125.00
1,000 detachable bits		400.00
Explosives (@$3.00 per foot advance)		1,500.00
Carbide, oil, lamp batteries, gas and oil for compressor engine		928.00
Total cost of supplies	$	2,953.00

3. Equipment to be rented:

Compressor (210 cu.ft.) @ $290.00 per month for 6 months)	$	1,740.00
Drifter (including all accessories) @ $100.00 per month for 3½ months		350.00
Stoper (including all accessories) @ $70.00 per month for 2½ months		175.00
Total rentals	$	2,265.00

4. Equipment to be purchased:

Air receiver	$	250.00
500 feet 2-inch pipe & fittings		200.00
Total equipment to be purchased	$	450.00

5. Rehabilitation:

Rehabilitation of south drift	$	100.00
Total rehabilitation	$	100.00

6. Maintenance:

Sharpening bits and maintaining steel	$	1,000.00
Maintenance of equipment and tools		250.00
Total maintenance	$	1,250.00

7. Assaying:

Assaying	$	300.00
Total assaying	$	300.00

8. Installing:

Installing equipment, pipe line, etc.	$	100.00
Total installing	$	100.00

No additional buildings, installations, fixtures, or improvements to be purchased, rented, repaired or rehabilitated, except as listed above, are to be allowed as costs under this contract.

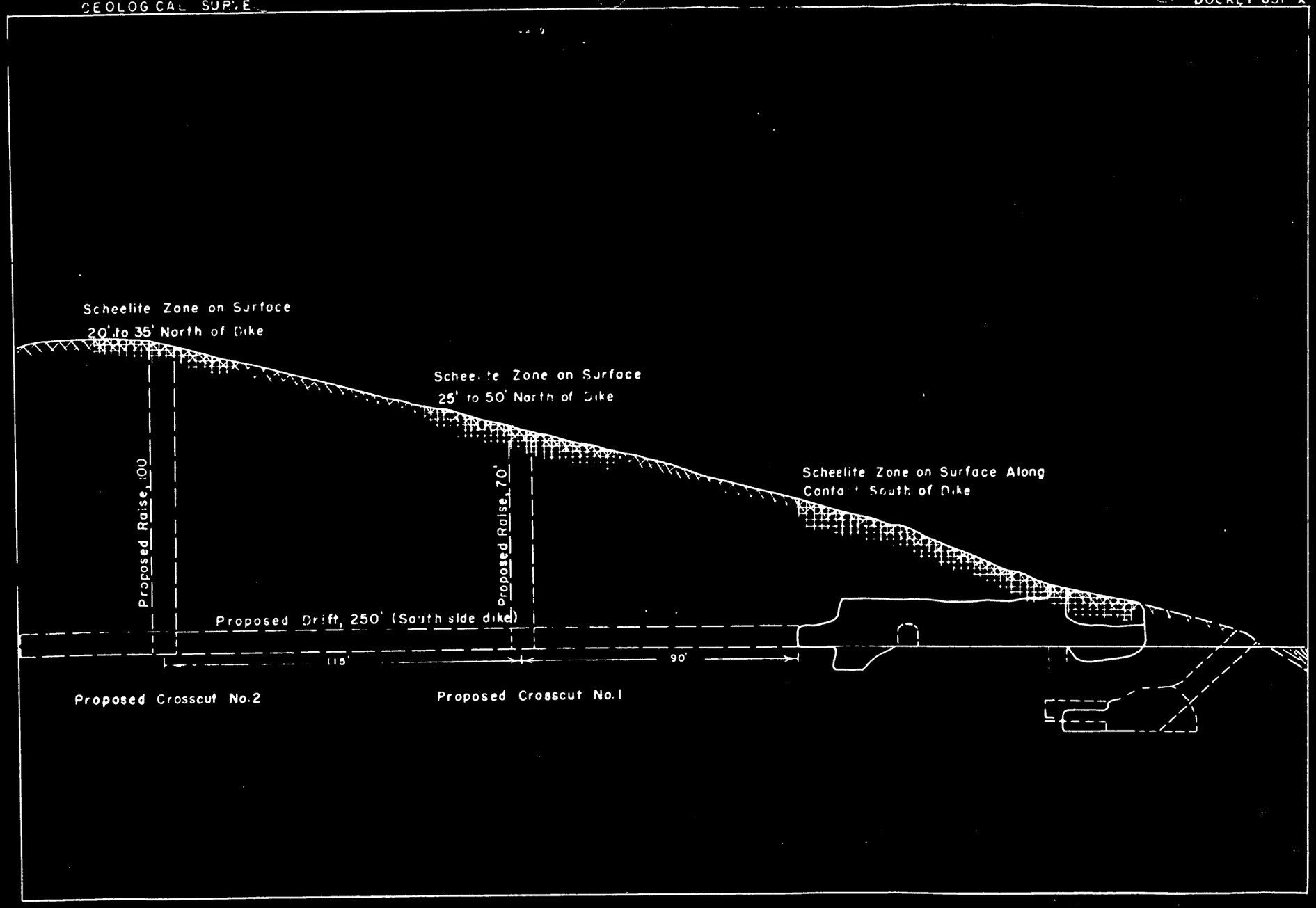

FIG. 6

LONGITUDINAL SECTION OF PROPOSED
EXPLORATION ON THE E.H.B. CLAIM
STAR DUST MINES INC.
(Looking North)
Section by M.H. Howes U.S.B.M.

0 40 80 Feet
Scale

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. Dma-651 X

Date received 5/21/51

Participation

Name and address of applicant

[illegible] INCORPORATED
283 East South Temple
[illegible] LAKE CITY UTAH

Date Feb. 6 1951

FILL IN THIS BLOCK

Date of application Feb. 6, 1951

Estimated cost $2,250 per month

Mineral or metal TUNGSTEN

Percentage of Government participation 75%

Location of mine [illegible] COUNTY, UTAH

Date of filing MF-100

DMA Docket Number, if available Dma-651 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

STAR DUST MINES INC.
(Name of company)

By Fred Cook
(Signature of authorized official)

May 19, 1951
(Date)

President
(Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

AID A[redacted]LICATION ATTACHMENT

1. Corporation
3. Fred Cook, Pres & Dir. Salt Lake City -283 East So. Temple
Mer Vell Cook, Sec& Tres,Dr." " " " " " "
Blake Probert, V.Pres & Dir. Ibapah, Utah
(These are the only stockholders)
4. Fred Cook has operated and mined tungsten ore at Star Dust Mines since 1937, and is extremely good on this particular ore. He has mined both the high grade and low grade ore. He is the finder and original locator of said mine.
5. Owner
6. This property is free of any liens and encumbrances.
8. Balance sheet 1951

Assets		
Cash in Bank		$58.84
Buildings	$ 275.00	
Machinery & Equip.	1153. 96	
	1428.96	
Less Reserv. for Depr.	996.86	432.10
Mining Claims		1504. 65
Goodwill		6480.97
		$ 8,417.72

Liabilities &Capital		
Capital Stock	10,000.00	10,000.00
Surplus: Debit Bal.		
Nov.30 19[redacted]	1,458.98	
Net Loss 195[redacted]	123.30	
Debit Balance May 1951		1,582.28
Total	.....	$ 8,417.72

9// Can put up some equipment and buildings and self labor
10. Star Dust Mines Inc. consists of a group of lode claims situated about 2 miles North West of Gold Hill, Utah. Three of these claims, have been surveyed for patent; Star Dust Extension, Star Dust Lode and Star Dust No.2 Lode. The names of the other claims are: E.H.B. Lode (Amend) Probable Lode (Amend) Apache Chief Lode (Amend) Last Chance No.1 (Amend) No.1 Special Lode (Amend) and East Chance No.2 Lode (Amended)
These claims are in CLIFTON mining district, Tooele County, Utah, unsurveyed part, Township [redacted] S. Range 18 W.,S.L.M
(b) Work wanted to be done on Star Dust Extension Lode Mineral Survey No. 7167, filed Jan. 3, 1938.
11. Star Dust Mines Incorporated --always has been
12. 56 miles of good graded roads (maintained) to Wendover, Ut. which is the nearest Railroad. (Western Pacific)
13. Water is piped to town of Gold Hill, approx. distance of 2 miles, from developed spring. Is sufficient all seasons. No electric power available, depend upon gas or deisel
14. 1 Blacksmith shop - 1 compressor house - 1 Ingersol-Rand compressor - 1 Hercules Power Unit 60Hp - Air receiver tank - 1 small house for living
15. This ore would be direct shipping high grade, for the most part. Meeting Gov't. specifications, in addition, there would be considerable second grade ore,averaging 20% or better.

STAR DUST MINES INC.
" 283 East South Temple,Salt Lake City,Ut.

STAR DUST MINES INC.
283 East South Temple, Salt Lake City, Utah

15. cont) In addition there would also be a good grade of mill ore produced. The ore can be sacked and shipped from Wendover, Utah Via W.P.R.R. to any part of the U.S. (this would be the high and second grades)
The mill ore, already available on the property, is enough to justify a mill set-up.

16 (a) Previous exploration consisted of several small cuts and an open pit. About 3,000 tons of limestone was removed from this pit; two or three thousand units of direct shipping ore came from this pit. Perhaps ½ of this material moved from the pit and now in the dump will average .6 or .7% WO_3. No segregation was made at the time of the mining, to create a mill ore. Operations were always discontinued due to loss of market.

(b) Approx. 800 ft. Easterly of this pit, on the B. Estelle Lode, owned by Elizabeth Lord, a small pit has produced approx. the same tonnage and type of ore.

(c) No reports available.

17. 18. (a) This pure High Grade Scheelite ore occurs as a replacement in a very pure magnesium limestone, and is in small veins, which lead to large pockets, consisting of from 5 to 16 tons of crude ore, which easily averages 65% WO_3 This limestone has been intruded about every 50 feet with narrow porphry sills.

(b) No maps and assay data are available to accompany this. We do have settlement sheets, etc in our books

(c) Estimate 1500 tons of ore reserve, approximately .7%

19. Where there has been any work on this property the net returns have been very high. This formation is about 1½ miles long and conditions are favorable for a large production. Ore occurances are numerous throughout this entire area.

20. The minerals will be high grade Scheelite, also very high grade zinc, as a by product. The type of deposits will be replacement type in limestone. The high grade alone will justify the program and the mill grade ores will be an added attraction.

21. The proposed work will be to enlarge the present open pit also to start another open pit approx. 300 feet easterly, and to determine if it is possible to remove all the limestone from this hill at a net profit. Estimated time: 1 year.

22. Facts previously ststed in this report.

23. (a) Miners, muckers combination 3 @ $14.00 per day
Men to work 6 day week, estimate Labor $1140 per Mo.
figuring time and ½ for Sat, plus Industrial Insurance
plus Soc.Sec.

Miss. Exp. Est. powder, caps, fuse, gas, etc.	$ 300.00 per Mo.
Allowance for repairs, small tools, etc	$ 200.00 per Mo.
Total	$1640.00 Per Mo.

(b) Sppervisor will have to work as one of laborers under existing conditions.

(c) None

AID APPLICATION ATTACHMENT

STAR DUST MINES INC
283 East South Temple, Salt Lake City, Utah

23 (d) None
(e) Air Pipe .....Approx (cost) $150.00
Jack Hammer & Acc. " (cOst) 700.00 $850.00
(f) none
(g) Complete compressor unit 350.00
Building rent, incl. shop 60.00
small tools, etc $410.00 per Mo.
(h) None
(1) None

24 Project to run for 12 months.
Expect to show high grade ore within 60 days.
Total monthly cost(Operating) $2,050
75% Gov't share $1,640.00
Owners share (rental of) (G)
compressor,bldg,etc) 410.00

In addition we are furnishing use of an automobile, also free supervisory and bookkeeping service.

This does not cancel any prior application, also the questions answered in this application, apply only to the one claim. When we are able to sell mill grade ores, we can repay the amount advanced by the Gov't.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 21 1951
LANDON F. STROBEL
Executive Secretary

B. R.

DEC 29 1951

9

651

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

Re: Docket No. [illegible]-6151 - Tungsten
Star Dust Mine
Tooele County, Utah
Exploration Project Contract
[illegible]

Dear Mr. Cook:

This is to acknowledge receipt of your request in a letter dated December 15, to Mr. J. H. East, that the subject contract be cancelled because of marketing conditions.

We shall cancel the contract but retain all the information in our files. In the event you would wish to proceed with the work as outlined in the contract it would be best to file a new application in skeleton form and refer to the subject Docket and Contract by number.

Sincerely yours,

C. O. Mittendorf

Acting Administrator,
Defense Minerals Exploration
Administration.

GCSelfridge/hmj
12-27-51

cc to: Adm. Reading File
Mails and Files
Mr. Mittendorf
Mr. Selfridge
Mr. Deehan
Mr. Thayer
Region IV (2)
Docket

Letter of Dec 27, 1951
By [illegible]

Address Gen. [illegible] President
Star Mfg Company Inc.

Ref Contract 10M-F-170 has been cancelled
at his request.

Phone Co. DR 6-651X.

Excerpt from page 13, Monthly Report, Reg. IV, Mining Div., dated 11/21/51 - 12/20/51.

DMA-651X - Star Dust Mines, Inc., Gold Hill, (Tungsten), Tooele County, Utah

The operator requested and received an amendment to the contract to permit the starting date to be extended to December 3, 1951. However, no work was started and the operator has requested that the contract be canceled.

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

224 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 26 1951

December 19, 1951

J.a.

Memorandum

To: C. O. Mittendorf, Acting Administrator, Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Cancellation of Contract Idm-E170, DMA Docket 651X, Star Dust Mines, Inc.

Mr. Fred Cook, President of Star Dust Mines, Inc. has written me a letter requesting cancellation of the subject contract because of marketing conditions. The letter bears the corporate seal of the Star Dust Mines, Inc. and a copy is attached.

No payments from government funds have been made and cancellation of the contract is recommended.

J. H. East, Jr.

J. H. East, Jr.

Enclosure

/
C
O
P
Y
/

Star Dust Mines, Inc.
283 East South Temple
Salt Lake City, Utah
December 15, 1951

Mr. J. H. East, Jr., Executive Officer
DMA Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

I am returning the exploration project on Star Dust Mines, Inc., No. Idm-E170, DMA Docket 651X .

We regret that we are unable to proceed with the contract, under the present marketing conditions; and request that it be cancelled.

In the event of a purchasing depot or other assistance in disposing of our ore, we would desire a reinstatement of this contract.

Yours very truly,

/s/ Fred Cook

Fred Cook
President, Star Dust Mines, Inc.

FC/mc

(SEAL)

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

224 New Customhouse
Denver 2, Colorado

December 7, 1951

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

Dear Mr. Cook:

Reference is made to your letter of November 30, 1951, regarding the exploration project contract on your Star Dust Property, No. Idm-E170, DMA Docket 651X.

It is suggested that you return the contract with a request for cancellation. We regret that circumstances are such that you now find you are unable to proceed with the work. Plans have been in the mill for some time to work out a procedure whereby small operators and potential tungsten producers may be able to dispose of low grade concentrates to much better advantage than at present and realize a much better net return on the ore.

If such a program eventually becomes a reality you may want to reinstate your contract or renegotiate it. We will be glad to consider it further.

Yours very truly,

P. T. Allsman, for
J. H. East, Jr., Executive Officer
DMA Field Team, Region IV

PTA:ld

cc: DMA docket, contract, chron.
Koschmann
Wilson
Mittendorf

COPY

283 East So. Temple
Salt Lake City, Utah
November 30, 1951

Defense Minerals Administration
224 New Customhouse
Denver 2, Colorado

Att: Mr. J. H. East, Jr.

Dear Sir:

Thank you for amendment to Contract Idm-2170, DMA Docket 6412.

Star Dust Mines, Inc. does not feel that it is able to go ahead with this contract for the following reasons:

Not nearly enough money has been allowed to put the present workings in condition to go ahead from the designated tunnel. This would involve considerable expense, both in labor and timber.

Another big expense would be incurred in arranging a place to pile the ore as mined, and the waste dumps would also be a problem. The estimates on rental, etc. all are reasonable and could be worked out satisfactorily. The labor allowance is probably too small. Any equipment we install has to be hauled from Salt Lake or further, and money for this is also, not available.

The winter has set in at the mine and it has snowed every day for the past week; which makes it more difficult to operate efficiently and economically.

Naturally, we would like an extension until April to begin this contract, but due to conditions over which we have no control, such as the inability of the DMA to provide us with milling facilities for our ore (as was the original promise) or to provide a market than a stockpile, it seems we wouldn't be too bright to spend any of our time or money for the purpose of developing more ore, when we have a lot of ore opened up ready for sale.

One year and more, has been used by the DMA and other than the Bishop California and Colorado areas the Tungsten miners are in the same boat we have been in for the past 20 years.

We would like to go ahead on this contract, but we have no assurance what we ever of the future, and rather than keep stringing along we would rather lose the contract unless something definite is decided about the future of our market.

Yours very truly,

COPY

(SEAL)

/s/ Fred Cook
Pre. Star Dust Mines, Inc.

FILE COPY
SURNAME:

410

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

Mittendorf (for)

NOV 27 1951

Contract Service Section
General Accounting Office
4th Floor - New GAO Building
Washington 25, D. C.

Re: Docket No. DMA 651X
Star Dust Mine, Incorporated
Exploration Project Contract Idm-E170

Gentlemen:

Attached hereto is the original, signed copy of an Amendment to the captioned Exploration Contract which should be attached to your copy of the contract.

Sincerely yours, 11/27

C. O. Mittendorf (for)

ACTING Administrator
Defense Minerals Exploration
Administration

Enclosure

J.Alt/meb
11/26/51

cc to: Adm.Reading File
Reports & Records
Field Team,Reg.IV(2)
Mr. Alt
Docket

FILE COPY
SURNAME:

410

J.W.C.
C. Mittendorf (fw)

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

November 26, 1951

Memorandum

To: Reports and Records Section

From: Administrator
Defense Minerals Exploration
Administration

Subject: Docket No. DMA 651X
Star Dust Mine, Incorporated
Exploration Project Contract Idm-E170

Enclosed is an original of a letter dated November 20, 1951 from Mr. J. H. East, Jr., Executive Officer, Region IV, and a copy of an amendment to which the letter refers. Please attach the amendment to your copy of the contract.

C. O. Mittendorf (fw)
cc
11/27

Enclosures

JWAlt/meb
cc to: Adm. Reading Files
Reports & Records
JWAlt
Docket

OFFICE OF THE ADMINISTRATOR

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

DEPARTMENT OF THE INTERIOR
RECEIVED
NOV 23 1951
Defense Minerals Administration,
Production Expansion Division.

224 New Customhouse
Denver 2, Colorado

November 20, 1951

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: Amendment to Contract Idm-E170, DMA Docket 651X, Star Dust Mine, Incorporated

Enclosed herewith are the original and two copies of the amendment to the above contract, which provides for the extension of the starting date of the project.

Copies of the amendment have been sent to the operator and to the Fiscal Officer, Region IV, and one copy has been retained for DMA files.

J. H. East, Jr.

Enclosures

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.
Nov 23 9 29 AM '51

FILE COPY
SURNAME:

410

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

NOV 9 1951

Mr. J. H. East, Jr.
Executive Officer
Region IV
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMA 651X
Star Dust Mines, Incorporated
~~Exploration Project Contract No. [illegible]~~

Dear Mr. East:

This will acknowledge receipt of your memorandum dated November 1, 1951, requesting your file copy of the above-referenced contract which you inadvertently included when you returned the contracts to this office.

Your file copy of the above-referenced contract is returned herewith.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Director
Production Expansion Division

Enclosure

11/7/51
J.M.Alt/meb

cc to: Admr's Reading Files
Reports and Records
PED
Mr. Alt
Docket

FILE COPY
SURNAME:

410

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

NOV 7 1951

Contract Service Section
General Accounting Office
4th Floor - New GAO Building
Washington 25, D. C.

Re: Docket No. DMA - 651X
Star Dust Mine, Inc.
Exploration Project Contract Idm-E170

Gentlemen:

Enclosed for recording in your office is the original, signed copy of an Exploration Project Contract executed between the Operator named in the above reference and the Government of the United States.

Sincerely yours,

BJ 11-7

(signed) FRANK E. JOHNSON (for)

Acting Director
Production Expansion Division

Enclosure

10/29/51
JWAlt/meb

cc to: Admr's Reading Files
Reports & Records
Messrs.Mittendorf/Olund
Mr. Alt
Docket

Mr. [illegible]

OFFICIAL FILE CO

To	Init.	Date
210		

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

224 New Customhouse
Denver 2, Colorado

November 1, 1951

DEPARTMENT OF THE INTERIOR
RECEIVED
NOV 7 1951
Defense Minerals Administration,
Production Expansion Division.

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: Contract Idm-E170, DMA Docket 651X, Star Dust Mines, Inc.

We inadvertently included our file copy of Contract Idm-E170, Star Dust Mines, Inc., as listed above when we returned the contracts to your office.

Will you please return our file copy so that our files will be complete.

J. H. East, Jr.

J. H. East, Jr.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 5 1951

FILE COPY
SURNAME:

410

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

Dir. C.
Johnson

OCT 24 1951

A.E.C.

Mr. John G. Ford
General Services Administration
Washington 25, D. C.

Re: Docket No. DMA - 651X
Star Dust Mine, Incorporated
Mr. Fred Cook, President

Dear Mr. Ford:

This will acknowledge receipt of your letter concerning the captioned application for a Government loan.

Please be advised that the Exploration Project Contract pertaining to the captioned application has been signed by this office for the Government, and was mailed to Mr. J. H. East, Jr., Executive Officer, Region IV, 224 New Customhouse Building, Denver 2, Colorado, on October 11, 1951. Mr. East will contact the Operator and have an authorized representative sign the six copies of the contract.

If Mr. Cook has not already been contacted by Mr. East, I am sure he will be contacted soon.

Sincerely yours,

(signed) FRANK E. JOHNSON

F.J. 10.24

Acting Director
Production Expansion Division

JWAlt/meb
10/23/51

cc to: Admr's Reading Files
Reports & Records
Messrs.Mittendorf/Olund
Mr. Holderer
Mr. Geehan
Mr. Thayer
Field Team,Reg.IV(2)
Mr. Alt
Docket

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.

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

OCT 26 8 45 PM '51

DEPARTMENT OF THE INTERIOR
RECEIVED
OCT 29 1951
Defense Minerals Administration,
Production Expansion Division,

224 New Customhouse
Denver 2, Colorado

October 22, 1951
REGISTERED MAIL

Memorandum

To: C. O. Mittendorf, Director, Production Expansion Division
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA 651X, Contract Idm-E170, Star Dust Mine, Clifton District, Tooele, Utah

Enclosed herewith are the original and three copies of Contract Idm-E170 as listed above.

One copy of the contract has been delivered to the operator and we have retained a copy for our files.

for Paul Wallman
J. H. East, Jr.

Enclosures

Mr. Ad

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.

GENERAL SERVICES ADMINISTRATION

Washington 25, D. C.

DEPARTMENT OF THE INTERIOR
RECEIVED
OCT 23 1951
Defense Minerals Administration,
Production Expansion Division.

OCT 22 9 09 AM '51

OCT 23 1951
Rec'd by
Mr. Holderer

OCT 19 1951

DMA 651X

Mr. C. O. Mittendorf, Administrator
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Mittendorf:

There is enclosed a copy of a letter, dated September 24, 1951, from Mr. Fred Cook, President, Star Dust Mines, Inc., Salt Lake City, Utah.

From the second paragraph of the letter, it is inferred that some type of application for a loan for Government assistance is pending.

Will you please let us know if this is correct and advise the present status of the matter.

Very truly yours,

JOHN G. FORD

Enclosure

DMA 651
Approved by
Supply Div. 9/14/51
Holderer
10/23/51

DMA 11. To Sup. Officer Page IV

OFFICIAL FILE COPY

To	Init.	Date
340	ce	10/22
210		

FILE COPY
SURNAME: 410

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

Mittendorf
Parson

Mr. J. H. East, Jr.
Executive Officer
Region IV
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

A.E.C.

Re: Docket No. DMA - 651X
Star Dust Mine, Incorporated
Exploration Project Contract Idm-E170

Dear Mr. East:

We are enclosing the original and five copies of the above-referenced Exploration Contract, signed by me, together with Exhibit "A" (3 pages), and one map.

If the terms and conditions of this contract are approved by the Operator, all six copies should be signed by a duly-authorized official of the company, one copy should be given to the Operator, one copy retained by your office and the original and three copies returned to this office.

If any part of this contract does not have the approval of the Operator, the original and all copies of the contract are to be returned to this office, together with the proposed changes for consideration.

Sincerely yours,

C. O. Mittendorf (J.K.)

C. O. Mittendorf, Director
Production Expansion Division

J 10/11

Enclosures

APPROVED:

Parson
Chairman, Coordinating Committee

Member, Geological Survey

Member, Bureau of Mines

JWAlt/meb
10/3/51
cc to: Admr's Reading Files
Reports & Records
Messrs. Mittendorf/Olund
Moon Holderer
Geehan Thayer
Alt Docket

FILE COPY
SURNAME:

Guthrie

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

140
DMA-651x

October 2, 1951

Memorandum

To: Director, Production Expansion Division

From: General Counsel

Subject: Star Dust Mine, Inc., exploration contract
Docket No. DMA-651x

The proposed exploration contract in this case, submitted to us on September 28, 1951, is approved as to legal form and sufficiency for signature on behalf of the Government, subject to:

1. Proper signature on behalf of the applicant.

2. Proper dating prior to delivery.

Your file is returned herewith.

J. L. Hofflund

J. L. Hofflund
General Counsel

Attachment

RRGuthrie/em

Copy to: Reports and Records
J. L. Hofflund
R. R. Guthrie
Chron.

a.e.

C
O
P
Y

283 East South Temple
Salt Lake City, Utah
Sept. 24, 1951

Dr. Jess Larson
Administrator, General Services Adm.
Washington, D. C.

8-118

Dear Sir:

Last February 6th, I made my first application for mining aid. This in turn has been followed by numerous letters and reports, trying to show the small producers picture of production and definite lack of sale. The one and only recognition I have had direct from the GSA, was the Certificate of Authorization Dom. Tungsten Program, dated 6-15.

About this date Mr. Roberts and several Engineers from the Salt Lake office, examined Star Dust Mines, and about two weeks later (so they told me) submitted a favorable report recommending two tunnels be run, and development work done.

They inform me, we will be the first to hear about the recommendations. It has been three months since the examination. Giving allowances for the numerous changes in the procurement agency; it does seem we should be getting some word on the disposition of our requests.

A month ago I had a ton of crude ore for sale; 100# of 65% WO_3 the balance about 40% WO_3. This is a pure type of ore found in the lime, and it is simple to mill it. Mr. Higgenbotham of the H M & S Mill here, offered to buy it, with a small advance of money. I hauled the ore here and waited a week for the money. It finally developed the partners could or would not raise the money agreed. I understand Mr. Higgenbotham withdrew his mill from the list, and can understand fully, because he hasn't even got a crushing unit, or is in no way equipped to handle commercial ore.

I had letters from Mr. Glenn of the Molybdenum Corp. of America and also from the Black Rock Milling Co., both of Bishop, Calif., which led me to believe I could sell my ore there. Again I loaded the ore on a rented truck ($135.00) for the 540 mile haul. Upon arrival, the lid was definitely clamped down on buying small lots of ore. The Molybdenum Corp. bought the bag of estimated 65% for two hundred dollars; the balance of the load I left with a store keeper there who does a little milling as a past time. To date, I have received four hundred dollars from this.

I have gone into this much detail, to stress the point that we just haven't any market for our scheelite. We have always produced a clean ore that buyers were anxious for. We have

265 East South Temple
Salt Lake City, Utah
Sept. 26, 1951

Dr. Jess Larson
Administrator, General Services Adm.
Washington, D. C.

R-118

Dear Sir:

Last February 6th, I made my first application for mining aid. This in turn has been followed by numerous letters and reports, trying to show the small producers picture of production and definite lack of sale. The one and only recognition I have had direct from the GSA, was the certificate of Authorization Nos. Tungsten Tungsten, dated 6-15.

About this date Mr. Roberts and several engineers from the Salt Lake office, examined Star Dust Mines, and about two weeks later (so they told me) submitted a favorable report recommending two tunnels be run, and development work done.

They inform me, we will be the first to hear about the recommendations. It has been three months since the examination. Giving allowance for the numerous changes in the procurement agency, it does seem we should be getting some word on the disposition of our requests.

A month ago I had a ton of ores ore for sale; 10% of WO3, the balance about 40% WO3. This is a pure type of ore found in the Intermountain Region, and it is simple to mill it. Mr. Higgenbotham of the H & S Mill here, offered to buy it, with a small advance of money. I hauled the ore here and waited a week for the money. It finally developed the bankers could or would not raise the money agreed. I understand Mr. Higgenbotham withdrew his mill from the list, and can understand fully, because he hasn't even got a crushing unit, or is in no way equipped to handle commercial ore.

I had letters from Mr. Glenn of the Molybdenum Corp. of America and also from the Black Rock Mining Co., both of Idaho, Salt, which led me to believe I could sell my ore there. Again I loaded the ore on a rented truck ($135.00) for the 540 mile haul. Upon arrival, the lid was definitely clamped down on buying small lots of ore. The Molybdenum Corp. bought the bag of estimated 62% for two hundred dollars; the balance of the loan I left with a store keeper there who does a little milling as a past time. To date, I have received four hundred dollars from this.

I have gone into this much detail, to evidence the point that we just haven't any market for our scheelite. We have always produced a clean ore that buyers were anxious for. We have

sold over five and a half thousand units of WO_3. Our mine is ready for production, the crying need is for an outlet.

We are mining another shipment of 65% and 40% ore. It is a developed ore body. In addition to this we have nine claims with low grade ore. This is where the Govt. Engineers recommend a tunnel be run.

Our previous letters and reports will be open for your viewing, so I need only state any or all of the aids requested are needed more than ever.

We have written the Nevada mills, and the few who have replied are not prepared for any type of custom milling. I hope a solution is found to this marketing and soon.

We hope Mr. Young will be an able assistant to you and the mining world.

May we hear from you, what if any decision has been reached regarding our applications?

Very truly yours,

Fred Cook /s/
Fred Cook
Pres. Star Dust Mines, Inc.

C
O
P
Y

FILE COPY
SURNAME:

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

Holden
Jacobs

Memorandum

To: Production Expansion Division

Through: Director, Supply Division

From: Chief, Tungsten Branch

Subject: Star Dust Mine, Inc., DMA-651X
c/o Mr. Fred Cook- $15,240.00 Exploration Loan
283 East South Temple
Salt Lake City, Utah

Property: Star Dust Mine
E. H. B. Tungsten Claim
Clifton Mining District
Tooele County, Utah

Conclusion:

The applicant has submitted an exploration loan application requesting a loan of $24,600. As stated in the application, there are two separate phases of work proposed. The first is to enlarge the existing open pit and secondly, to start a new open pit. It is the opinion of the field team that the scheelite bearing tactite, in both these cases, is so erratically distributed in the limestone that there appears to be little or no chance of successful exploration.

In addition to these phases, the field team points out a third phase not enumerated in the applicant's form 103 and referred to by the field team as project #1. This project # 1 proposes to extend the existing drift 250' west of the present faces on the E. H. B. claim, and drive cross cuts to explore the tactite zone along the quartz monzonite dike. This tactite zone is reported to have yielded 2,771 units of WO_3 in the past.

The extension of the old drift 250 feet will permit a cross cut to be driven at a point 90 feet west of the present face. A second cross cut should be made 115 feet west of the first crosscut. Raises can then be driven from the north ends of these crosscuts to the surface. The cross cuts should be approximately 50 feet in length.

It is estimated that the proposed drifting, crosscutting and raising would take six months and cost a total of $15,240.00 of which the Government share is $11,430.00 This might develop between 3,000 and 3,500 units of 60% WO_3.

Recommendations:

1- In view of the foregoing conclusions, it is recommended that project # 1 be approved and that phases # 1 and # 2 of the original application be denied.

2- That close checks be made by the field team in order to ascertain the value of continued exploration.

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

Attachments:

Approved:

CHJacoby:ll 9/14/51

CC: DMA Docket File
Adm. Reading File
Mr. Holderer

Tom Lyon

Director, Supply Division

~~J.T.G.~~ 18
not stripped in RSR.

Index of File to Production Expansion Division
DMA-651X

1- copy Field Team report dated 8/15/51
1- copy letter to Boyd from Cook dated 2/6/51
1- copy letter to Cook from Bradley dated 4/25/51
1- copy letter to Boyd from Cook dated 5/19/51
2- copies MF-103 with attached sheets.
1- copy letter to East from Lyons(nodate)
1- copy letter to Cook from Lyons dated (notdated)
1- copy Memo to S. R. Wilson from East dated 6/8/51

9/12/51

REGIONAL DIRECTOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 31, 1951

Air Mail

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 651X, Star Dust Mine, Inc., E. H. B. Tungsten Claim, Clifton Mining District, Tooele County, Utah

Enclosed herewith is original and two copies of the report as indicated above.

We concur with the conclusions and recommendations of the examining team.

J. H. East, Jr.

A. H. Koschmann

Enclosures

Mining Division
Region IV

August 29, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: DMA Docket 651K, Star Dust Mine, Inc., E. H. B. Tungsten Claim, Clifton Mining District, Tooele County, Utah.

The application of the subject company was for an exploration loan of $[illegible]00,000 in three projects. Examination by the field team showed that only Project 1 on the E. H. B. claim deserved consideration.

The proposed project on this claim consists of 330 feet of drifting and cross-cutting and 170 feet of raising at an estimated cost of $15,240.00. Past production from the E. H. B. claim is reported to have averaged 1.29 percent WO_3. Inferred ore reserves are from 3000 to 3500 units of about the same grade.

The examining engineers recommend that an exploration contract be executed, with which I concur.

The report contains the pertinent data for the Exhibits.

W. H. King

W. H. King
for Paul T. Kilsman

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Administration
200 New Customhouse
Denver 2, Colorado

August 22, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 651X, Star Dust Mines, Inc., Salt Lake City, Utah

Enclosed are 8 copies of the report by J. W. Hasler and B. J. Sharp of the U. S. Geological Survey and M. H. Howes and S. R. Wilson of the U. S. Bureau of Mines, covering the above docket.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 307, 320 South Main
Salt Lake City, 1, Utah
15 August 1951

Memorandum

To: [redacted] H. Koschmann, Field Team, Region IV

From: Ralph J. Roberts

Subject: Docket DMA-651X, Star Dust Mines, Inc., Salt Lake City, Utah

Enclosed are eight copies of a report on the Star Dust Mine, Inc. Salt Lake City, Utah, Docket DMA-651X (Tungsten).

This report includes the combined investigation of the U. S. Geological Survey and the U. S. Bureau of Mines.

The Star Dust Mine, located in the Gold Hill mining district, Utah, has been a small tungsten producer in times of high metal prices. The tungsten ore is in a scheelite-bearing tactite formed at the contact of quartz manzonite and limestone, and also in garnetized limestone associated with small dikes.

There is little measured or indicated ore but exploratory work may disdover new ore bodies along the tactite zone located on the E.H.B. Claim.

Because of the applicant's sale and treatment problem of these complex tungsten ore, it is recommended that only a portion of his exploration program be followed. It is recommended that the Defense Minerals Administration enter into a contract with the Star Dust Mines, Inc., Salt Lake City, Utah, for $11,430.00 for an exploration project as outlined in the accompanying report.

I concur in the recommendations of the examining geologists and engineers that the above mentioned exploration project be entered into by the Defense Minerals Administration.

/s/ Bonnie M. Stagg

for - Ralph J. Roberts.

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMA-651X, Star Dust Mine, Inc.

Salt Lake City, Utah

M. H. Howes and S. R. Wilson, Mining Engineers
U. S. Bureau of Mines

J. W. Hasler and B. J. Sharp, Geologists
U. S. Geological Survey

August 15, 1951

ON-SITE REPORT

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ILLUSTRATIONS

Figure 1. Index map of Utah.

Figure 2. Geologic map of scheelite deposits on the E.H.B. claim, Star Dust Mining Company, Gold Hill Mining District, Tooele County, Utah.

Figure 3. Geologic map scheelite deposits on the Last Chance Claims, Star Dust Mining Company, Gold Hill Mining District, Tooele County, Utah.

Figure 4. Plan and section of workings on the Star Dust Extension Claim, Star Dust Mining Company, Gold Hill Mining District, Tooele County, Utah.

Figure 5. Claim map of the Star Dust Mining Company, Tooele County, Utah.

Figure 6. Longitudinal section of proposed exploration on the E.H.B. claim, Star Dust Mining Company, Gold Hill Mining District, Tooele County, Utah

Docket DMA-651X, Star Dust Mine, Inc.

Salt Lake City, Utah

INTRODUCTION

The Star Dust Mine, Inc., Salt Lake City, Utah, Docket DMA 651X, has applied for a loan of $100,000 to be used in exploration of the Star Dust property in the Clifton district, Gold Hill, Utah.

The applicant hopes to prove enough ore to justify the construction of a small mill at Gold Hill, Utah. He plans (1) to extend his drift 400 feet west on the E.H.B. claim, (2) to enlarge the present pit and workings on the Star Dust extension claim, and (3) to start another pit 300 feet east of the present pit to test further possibilities for ore.

The Star Dust Mine, Inc., property consists of a group of 9 lode claims approximately 2 miles northwest of Gold Hill, Utah, in the Clifton mining district. The claims are in T. 7 S., R. 18 W., and include three that have been surveyed for patent (Star Dust Extension, Star Dust Lode, and Star Dust No. 2 Lode) and 6 others; the E.H.B. Lode, Probable Lode, Apache Chief Lode, Last Chance Nos. 1 and 2, and No. 1 Special Lode.

A field examination was requested by the Field Team, Region IV, June 8, 1951, to help solve the applicant's problems regarding ore sale and possible ore reserves. The examination was made June 22 and 23, 1951 by J. W. Hasler, R. W. Osterstock, B. J. Sharp and R. M. Smith of the U. S. Geological Survey.

The property had been visited in December 1942 by S. W. Hobbs and S. E. Clabaugh of the U. S. Geological Survey, who prepared a memorandum report on three of the Star Dust claims.

Location and accessibility

The property of Star Dust Mines, Inc. is in the extreme western part of Utah, in the Clifton mining district, 2 miles northwest of Gold Hill, Utah (fig. 1). Gold Hill can be reached from Salt Lake City, Utah, by driving 128 miles west on U. S. Highway 40 to Wendover, Utah, then south on Highway 50 towards Ely, Nevada, for 28 miles, and then southeastward for another 28 miles on the Gold Hill road. All the roads are surfaced except the last 28 miles into Gold Hill, which is a good gravelled road. The road from Gold Hill to the Star Dust mine is a fair dirt road and is passable most of the year except during stormy weather.

History and production

Mineral deposits are said to have first been discovered in the district in 1858. The ores are valuable for gold-silver, but small amounts of tungsten ore have been mined during periods of higher metal prices since 1914.

Tungsten ore produced from the Clifton district from 1915 to 1945 yielded 12,000 units of WO_3, according to P. R. Bradley, chief of the tungsten branch of the Supply Division of D.P.A. During 1942-44 the district produced 2,373 tons of ore, containing 2,933 units of WO_3.

The Star Dust mine in 1942 yielded 103 tons of ore containing 162 units of WO_3. In 1948 some production was reported by the Bureau of Mines but no totals were given. The applicant reports a total production during World War II of 2,771.19 units in ore averaging 1.29 percent WO_3 from the two drifts on the E.H.B. claim, and between 2,000 and 3,000 units of shipping ore from the Star Dust Extension claim (fig. 5).

GEOLOGY

The scheelite-bearing contact-metamorphic deposits of the Star Dust mine are in the southern prong of Dutch Mountain, between Pool Canyon and the next large canyon 1 1/2 miles to the southeast. The main deposit lies along the contact between quartz monzonite and a strip of Ochre Mountain limestone, of upper Mississippian age, that extends east and west from U.S.L.M. 10. (See fig. 2)

The limestone is a thick-bedded gray-brown rock, which for the most part has been metamorphosed by the quartz monzonite to tactite, which consists largely of garnet. The main body of quartz monzonite in the area is a gray, medium-grained, slightly porphyritic rock of rather uniform texture. On the E.H.B. claim two dikes branch from the main body of quartz monzonite, the largest and best-defined one to the east and a smaller one to the west. These two dikes are parallel, and as they occur on both sides of a lobe of quartz-monzonite it seems probable that they follow zones of fracturing.

E.H.B. Claim

The ore on the E.H.B. claim consists of scheelite-bearing tactite, composed mainly of dark brownish-red garnet localized along the contacts of the dikes with limestone. The width of the tactite zone on the south side of the east dike is as much as 55 feet, and on the north side as much as 50 feet. Exposures on the hillside show the tactite zone to have a vertical range of at least 120 feet, and two shafts explore the contact between the tactite and the dike to a depth of 50 feet below the surface.

Scheelite mineralization within the contact zone is irregular and spotty and examination with an ultra violet light shows a considerable amount of the tungsten ore to be powellite, the tungsten molybdate. In the vicinity of the

east shaft, a zone along the south contact has been stoped on for a distance of 105 feet. It is said that a drift along this contact yielded ore assaying 1.56 percent WO_3, and that a drift and stop extending 150 feet along the north contact yielded ore assaying 1.03 percent WO_3. The shipments from these workings are reported by the applicant to have yielded 2771.19 units.

Investigations throughout the north-south drifts and the 30-foot winze and stope below the north drift showed only spotty occurrences of scheelite. Some spot sampling was done in an attempt to determine the grade of material now exposed in the workings. The assays of these samples are as follows:

	Sample No.	WO_3	MO
South drift	1-A	0.35	0.02
South drift face	2-A	<0.01	0.01
North drift face	1-B	<0.01	<0.01
	2-B	0.80	0.04
	2-C	0.25	0.03

Reserves and grade

It is difficult to estimate the reserves of this deposit. A large tonnage of tactite is undoubtedly present, but only a small part of it is sufficiently mineralized to be considered ore. The grade of the exposed material is estimated, from examination of the surface exposures and workings with the aid of an ultraviolet lamp, to average between 0.25 and 0.50 percent WO_3; some small pockets were seen that may possibly average 0.50 or 1 percent WO_3. Little ore of milling grade is now exposed in the workings, because the easily accessible ore has been stoped. It seems likely, however, that further

exploration of the tactite zone along the strike and down dip may result in the discovery of new ore bodies.

The tactite zone has been explored for a total length of 250 feet, a width up to 20 feet, and a depth as much as 50 feet. The production from these workings totalled 2,771 units, from ore that averaged about 1 percent WO_3. It seems reasonable to assume that the tactite zone beyond the workings may contain ore bodies comparable in size and grade to those already mined, and it is inferred that 3,000 to 3,500 units may be present beyond the face in the next 250 feet of tactite zone to a depth of 50 feet.

Last Chance No. 1 Claim

The Last Chance claim is 3,000 feet east of the E.H.B. claim. Development work consists of a few pits and trenches and one small open cut from which some ore has been extracted.

The deposit is similar to that on the E.H.B. claim: it consists of garnetized limestone extending along the margin of the main quartz monzonite mass and along the borders of several dikes which are closely related to the quartz-monzonite. Here the limestone apparently forms a syncline that plunges eastward and has been cut off by the intrusive monzonite.

The largest of the garnet areas is in the open cut in the center of the mapped area (fig. 3). The garnet layer in contact with the quartz-monzonite on the north appears to extend into the hill on a nearly level plane beneath a shallow cover of replaced limestone, and probably connects with an outcrop of garnet 50 feet to the south which extends along the north contact of a dike of igneous rock. An interpretation of this structure is shown in cross sections A-B', fig. 3. The garnet layer exposed in the pit is from 3 to 4 feet thick.

The property is only partly explored and the exposures are poor. The largest body of garnet rock underlies an area of about 8,000 square feet; this body is estimated to contain 1,300 tons of tactite, but only a small part of the tactite contains scheelite. A few pods of ore were seen that are estimated to contain 0.5 to 1 percent scheelite.

The ore deposits on the Last Chance claims appear to be small and discontinuous. The outlook for the discovery of a substantial tonnage of ore is not good.

Star Dust Extension Claim

The Star Dust extension claim lies southwestward from the E.H.B. claim, the southwest corner of which it overlaps. The workings consist of two tunnels, two shafts, and several open cuts (fig. 4).

The workings are in a large triangular block of Ochre Mountain limestone, striking southeast and dipping 45° to 80° NE, that forms a roof pendant in quartz monzonite. The limestone is light gray to white and is mostly coarse-grained; it is highly fractured and brecciated and is generally breached and dolomitized. It is cut in several places by north-trending steeply dipping quartz monzonite dikes as much as 2 feet thick.

Ore deposits

Tunnel No. 1 (fig. 4) on the Star Dust Extension claim was driven along the contact between the limestone and the quartz monzonite near the northwest corner of the triangular block, on the ridge south of Pool Canyon. The inner part of the tunnel follows a strong fault zone that strikes north and dips steeply westward. Very spotty showings of scheelite, scattered along the contact, were seen in this tunnel.

Tunnel No. 2 is in the same block limestone, higher up the ridge and on the Star Dust Extension claim. The tunnel explores a dike two feet wide that trends north and dips 70° E. The applicant says that high grade shipping ore, running 60 percent WO_3 and containing about 2,000 or 3,000 units of WO_3 was taken from this tunnel. No milling ore has been produced from this area, but the overburden and the material below these workings is estimated by the applicant to contain from 0.54 to 1 percent WO_3. Samples were taken from a bulldozer trench in the overburden to verify these estimates. The samples were assayed by the U. S. Bureau of Mines with the following results:

Sample No.	WO_3	MO
DC 1	0.15	<0.01
DC 2	<0.01	<0.01

Ore reserves

The high-grade pockets that have been discovered on the Star Dust Extension claim have been mined out, and the workings now show only erratic occurrences of scheelite. The mine may contain a few hundred tons of ore containing 0.25 to 0.50 percent WO_3.

Because of the erratic occurrences of the high-grade ore shoots, it seems impracticable to estimate ore reserves. Further exploratory work might possibly result in the finding of new ore bodies, but it is hard to tell where these ore bodies should be looked for.

PROPOSED EXPLORATION

The Star Dust Mine, Inc., has applied for an exploration and development loan of $100,000 to determine whether it has enough ore to justify the construction of a small mill for the treatment of tungsten ore at Gold Hill. The applicant has proposed three projects:

Project No. 1. Extend present workings on the E.H.B. claim 250 feet westward from the present face of the south drift, and drive crosscuts northward at intervals to explore the monzonite dike, then raise in two places to intersect surface exposures of scheelite-bearing zones (fig. 6). The object is to explore the tactite zone along the quartz monzonite dike. The tactite zone has already yielded 2,771 units of WO_3, and it is hoped that 3,000 to 3,500 units may be present in the tactite beyond the present face within 50 feet of the surface.

Project No. 2. Enlarge the open cut and workings on the Star Dust Extension claim. The scheelite-bearing tactite on this claim is erratically distributed in the limestone. Although the ore was of high grade in places, there is no way to predict where new pockets may be found. Project No. 2 does not appear to have merit and it is believed that approval should be denied.

Project No. 3. Open a new pit on the Star Dust Extension claim 300 feet east of the old pit. The appraisal of this project is the same as for project No. 2.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that Project No. 1, exploration of the tactite zone on the E.H.B. claim, may result in the discovery of ore bodies containing 3,000

to 3,500 units of WO_3. It is recommended that this project be approved, and that the Defense Minerals Administration enter into a contract with the applicant to do the proposed work. Projects Nos. 2 and 3 do not appear to have merit and it is recommended that they be denied.

Docket DMA-651X, Star Dust Mine, Inc.

Salt Lake City, Utah

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Star Dust Mines, Inc., Clifton mining district, Gold Hill, Utah, Docket DMA 651X, has applied for an exploration loan of $100,000 to determine whether there is enough tungsten ore on their property to justify the construction of a small mill at Gold Hill. Three exploration projects are proposed: (1) to extend the present south drift on the E.H.B. claim 250 feet westward along a contact of quartz monzonite and tactite; (2) to enlarge the present open pit and workings on the Star Dust Extension claim; and (3) to open a new pit 300 feet east of the present pit to test further possibilities for ore.

The recorded production is 2,771.2 units of WO_3 from the E.H.B. claim, and 2,000 to 3,000 units from the Star Dust Extension claim.

On the E.H.B. claim tungsten ores occur in scheelite-bearing tactite formed at the contact of quartz monzonite and a strip of Ochre Mountain limestone of Upper Mississippian age. On the Last Chance claim there are deposits of scheelite in garnetized limestone along the margin of the main quartz monzonite body and adjacent to several dikes that are closely related to the quartz monzonite. On the Star Dust Extension claim the rare scheelite deposits are in a roof of fractured, bleached, light-gray dolomitized Ochre Mountain limestone along a limestone-quartz monzonite contact and adjacent to a dike 2 feet wide.

There is little measured or indicated ore on the E.H.B. claim, but further exploratory work may well result in the discovery of new ore bodies

along the tactite zone. It is estimated that the inferred ore reserves may contain 3,000 to 3,500 units of WO_3.

On the Last Chance and Star Dust Extension claims the scheelite pockets occur so erratically in the workings that no estimates were made of the ore reserves.

It is concluded that the proposed project no. 1, exploration of the tactite zone on the E.H.B. claim, may result in the discovery of ore bodies containing 3,000 to 3,500 units of WO_3. The project appears to have merit, and it is recommended that the Defense Minerals Administration enter into a contract with the applicant to do the proposed work. Projects 2 and 3 do not appear to have merit and it is recommended that they be denied.

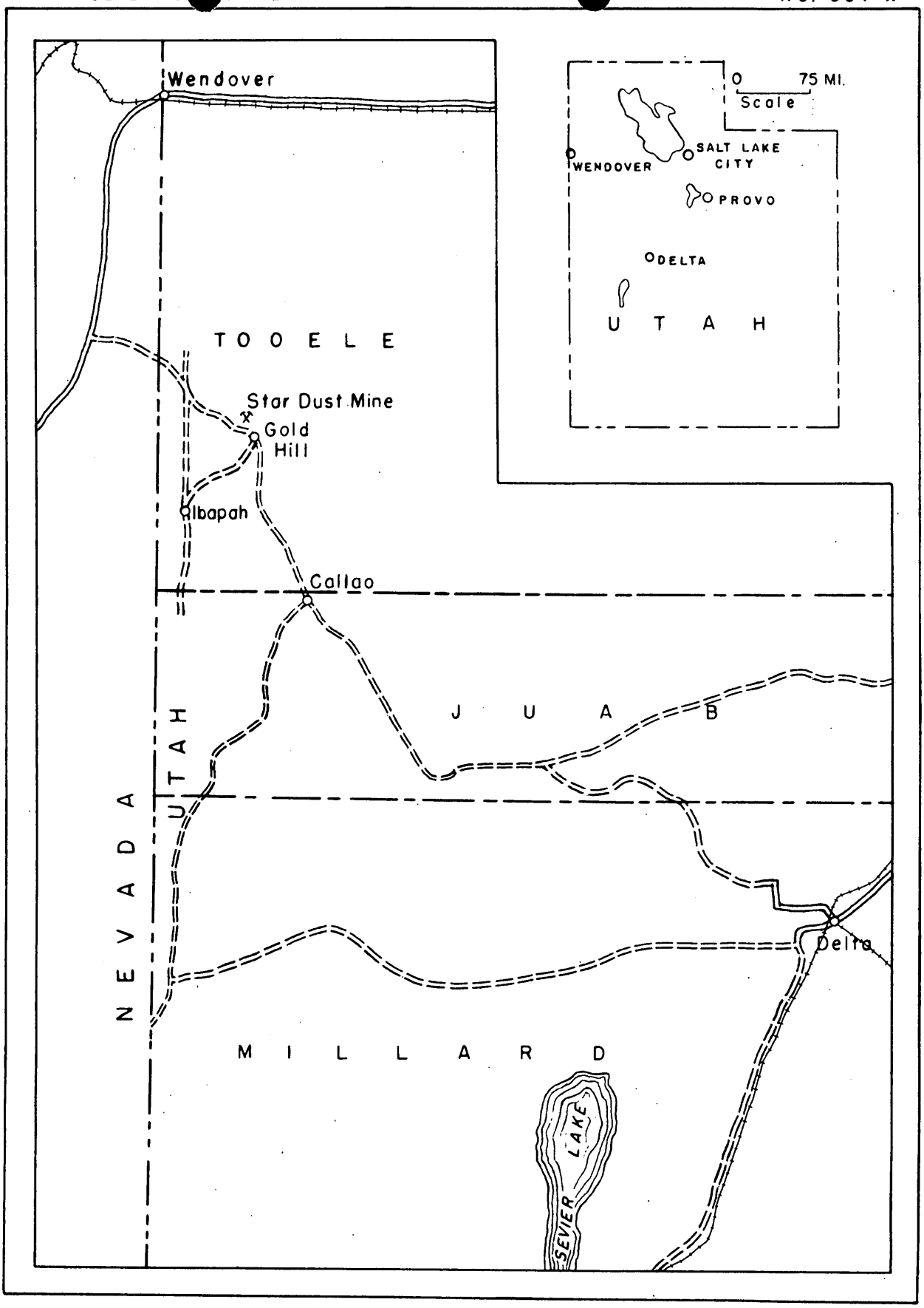


FIG. I

INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

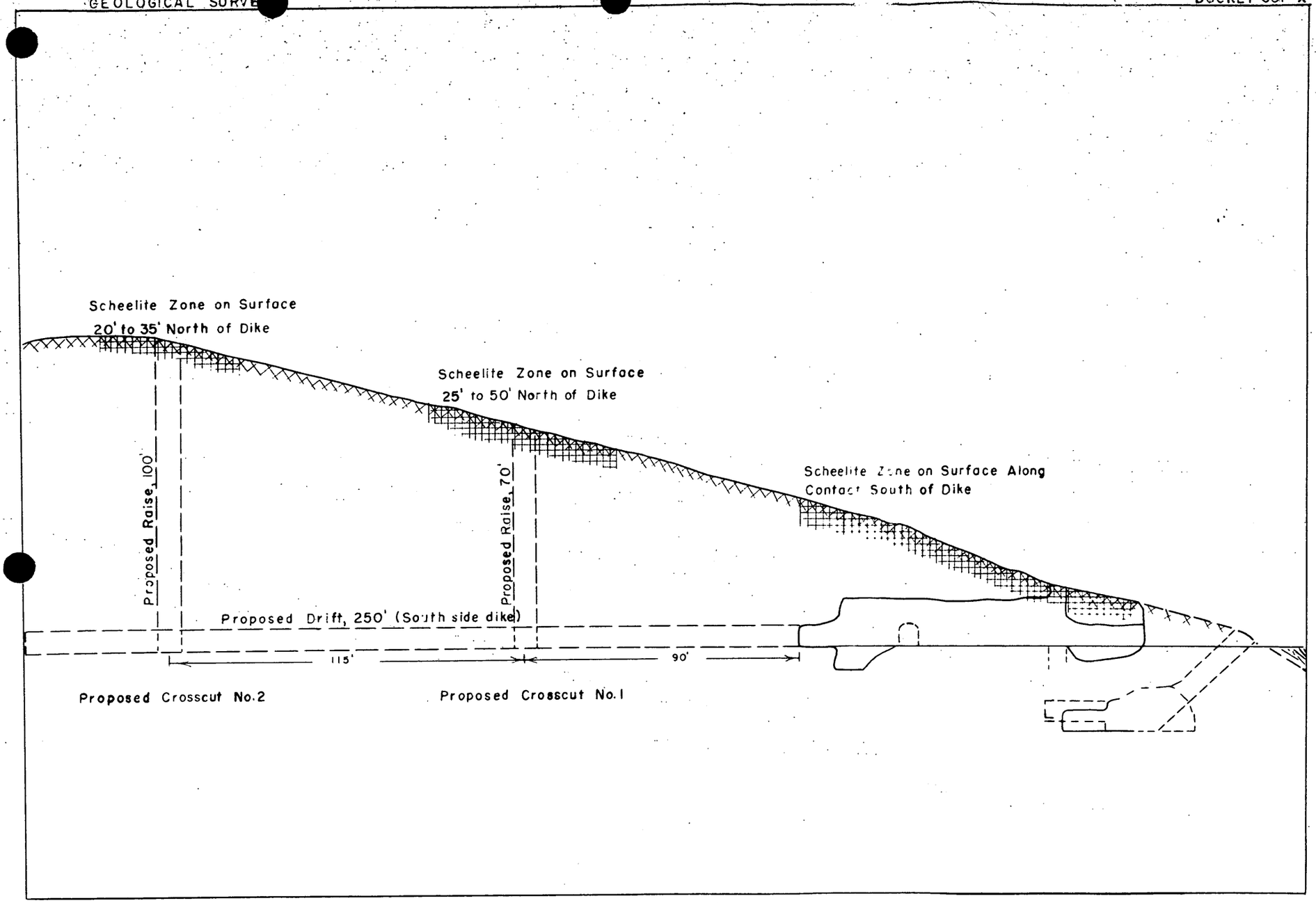


FIG. 6

LONGITUDINAL SECTION OF PROPOSED
EXPLORATION ON THE E.H.B. CLAIM
STAR DUST MINES INC.
(Looking North)
Section by M.H. Howes U.S.B.M.

0 40 80
Scale

FILE COPY
SURNAME:

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

June 15, 1951

Mr. Fred Cook
Director and President
The Star Dust Mines, Inc.
283 East South Temple
Salt Lake City, Utah

Subject: DMA-651X
Re: Exploration Loan
Star Dust Mines

My dear Mr. Cook:

Receipt is acknowledged of your application and attachments of May 21, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-651X and was referred to Mr. P. R. Bradley, Chief, Tungsten Branch on May 24, 1951.

In any future correspondence relating to your application, kindly refer to DMA-651X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc : Strobel-2
>Files
Bradley
Lyon

Bitter 651

858

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

U. S. GEOLOGICAL SURVEY
RECEIVED
JUN 11 1951
MINERAL DEPOSIT BRANCH

224 New Customhouse
Denver, Colorado

June 8, 1951

Memorandum

To: S. R. Wilson
(Through Chief, Mining Division)

Ralph Roberts

From: DMA Field Team, Region IV

Subject: DMA 651X, Star Dust Mine, Inc., Salt Lake City, Utah

We are forwarding you the brochure of the Star Dust Mine, Inc., DMA Docket 651X.

The Field Team believes that you probably have sufficient information regarding this property to determine if field examination is warranted.

If you care to recommend the property, please help the applicant prepare the exhibits and forward six copies of form MF-200 if your report is favorable.

J. H. East, Jr.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

Attachments
JHE/cl
cc-dma files
files (DMA)

RJR
6/11/51

Engineering Report on the Star Dust Mines, Inc., Docket DMA 651X

By

M. H. Howes and S. R. Wilson, Mining Engineers
U. S. Bureau of Mines

E. H. B. Claim

Past production of tungsten ores from the E. H. B. claim is reported to have averaged 1.29 percent and to have yielded 2771.19 units of WO_3. Inferred ore reserves are from 3,000 to 3,500 units of about the same average grade.

The Star Dust Mines, Inc., not being able to find a profitable market for this product at the present time, hopes to be able to prove enough low-grade tungsten ore by exploration to justify the construction of a small mill. Past experience in milling ores of the Clifton mining district has proved that low-grade, garnetiferous scheelite ore, of the type that is expected to be found by the proposed exploration program is generally difficult to concentrate by simple gravity methods. It is doubtful whether a small mill of proper design could be built that would economically handle ore of the quantity and grade estimated to exist in the inferred ore reserves on this property. However, because of the strategic importance of tungsten and the hope that a market will be developed to provide an incentive for mining ore of this grade, it is recommended that an exploratory program be conducted on the E. H. B. claim.

Erratic deposition of scheelite now exposed at or near the surface has occurred in tactite zones on both sides of an east-striking quartz monzonite dike 20 feet wide, which extends about 400 feet from the main quartz monzonite intrusion. Mining operations were started at the east end of the dike and

underground workings have been driven about 150 feet westward along the north and south sides of the dike and near the winze. Since the south drift produced the richest and most abundant ore, it is believed that the logical place to begin exploration is in this drift in the tactite along the dike, and that the drift should probably be extended to the end of the tactite zone, which is shown on the surface to be about 250 feet west of the present face. Two scheelite occurrences can be explored by driving crosscuts from the west extension of the south drift and raising to cut the zones. Because of the erratic distribution of the scheelite, it may not be desirable to set up a final plan of exploration; the exploration plan should be flexible, so that it can be modified to follow promising showings exposed during the progress of the work. This would require rather close supervision by government engineers or geologists.

PROPOSED EXPLORATION

It is proposed that the south drift on the E.H.B. claim (fig. 6) be extended westward 250 feet to the end of the tactite or garnetized zone; and that two crosscuts be driven from this drift through the quartz monzonite dike and into the tactite zone to the north, to points under scheelite exposures at the surface. The first crosscut should be started at a point 90 feet west of the present face of the south drift and continued for a distance of 50 feet, and the second started at a point 115 feet west of the first crosscut and continued for a distance of 30 feet. Raises can be driven from the north ends of the two crosscuts to the surface, the raise from the first crosscut to go up approximately 70 feet, and the raise from the second crosscut approximately 100 feet.

Time for completion of the above proposed exploration is estimated to be 6 months - 3-1/2 months for drifting and crosscutting and 2-1/2 months for raising.

STAR DUST MINES, INC.

Proposed Exploration (on E. H. B. claim)

Time Schedule

330 feet drifting and crosscutting, including rehabilitation and preliminary work incidental to project	3-1/2 mo.
170 feet raising	2-1/2 mo.
Total	6 mo.

Estimated Cost of Project

Labor (calculated on basis of 6-day week, with time and one-half paid for 6th day - $15 per average man shift)		
2 men at $15 per day	$30.00	
Comp. ins., unemployment ins., S. S.	3.00	$33.00
1 man at $15 per day (furnished by company)	15.00	
Comp. ins., unemployment ins., S. S.	1.50	16.50
Total per day		$49.50
2 men per month (26 work days)	$858.00	
1 man per month (26 work days)	429.00	
Total for 1 month	1,287.00	
2 men for 6 months	5,148.00	
1 man for 6 months	2,574.00	
Total for project	$7,722.00	

Equipment Rentals

*Compressor (210 cu. ft.) at $290 per month	$1,740.00
Drifter (including all accessories) for 3-1/2 months at $100 per month	350.00
Stoper (including all accessories) for 2-1/2 months at $70 per month	175.00
Total rentals	$2,265.00

Equipment and Supplies to be Purchased

Air receiver	250.00
500 feet 2-inch pipe and fittings	200.00
Drill steel	125.00
1,000 detachable drill bits	400.00
Explosives (at $3.00 per foot advance)	1,500.00
Miscellaneous (carbide, oil, lamp batteries, etc.)	328.00
Total	$2,803.00

Incidentals

Installing equipment, pipe line, etc.	100.00
Rehabilitation of south drift	200.00
Sharpening bits and maintaining steel	1,000.00
Maintenance of equipment and tools	250.00
Gas and oil for compressor engine	600.00
Assaying	300.00
Total	$2,450.00

Summary

Labor	7,722.00
Equipment rentals	2,265.00
Equipment and supplies to be purchased	2,803.00
Incidentals	2,450.00
Total cost of project	$15,240.00
Cost per foot for 500 feet of exploration	31.50
Government's share of cost (75 percent)	$11,430.00
Star Dust share of cost (25 percent)	3,810.00
Total	$15,240.00

*see next page

Labor furnished by Star Dust (1 man)	$2,574.00
Cash to be raised by Star Dust	1,236.00
Total	$3,810.00

*Because of the tough drilling conditions expected in the garnetized zone to be explored, it is believed necessary to use a drifter with at least a 3-inch bore. The 105-cubic-foot compressor owned by Star Dust Mines, Inc. is inadequate to properly operate a drill machine of this capacity. A compressor with an output of at least 210 cubic feet per minute should be used on the project.

Sufficient housing for men may be had at Gold Hill or in a building on the property. The property contains a blacksmith shop and compressor building suitable for providing repair facilities. Cover for the proposed rental compressor will be required at the portal of the workings. The buildings now on the property are .4 mile by road from the job site, so that the compressor building cannot be used for housing the compressor.

Mining equipment on the property consists of a 105 cubic foot stationary compressor with a 60 horse-power gasoline engine and air receiving tank, blacksmith tools, all necessary small mine tools, 12 lb. mine rails, and a small quantity of 1-1/2 inch pipe.

FILE COPY
SURNAME:

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

File Macid

JUN 6 1951

Holderer
Lemmon
Bradley
Geehan

Mr. J. H. East, Jr.
Executive Officer, DMA Field Team
Region IV
244 New Customhouse Building
Denver 2, Colorado

DMA-651-X Tungsten
Star Dust Mine, Inc.
Salt Lake City, Utah
Application for Exploration loan.

Dear Mr. East:

We are referring the above docket to you for a field examination. The problem is at least half a problem of ore sale, but in view of the applicant's record of producing direct shipping ore, perhaps an exploration loan will put him in a position to produce more of such ore, or may even develop enough low grade ore to justify a small mill. He says he cannot match funds, but perhaps his own labor and the rental of his equipment would cover his 25 percent. He should have some assistance in preparing the "Exhibits" which are called for in the exploration contract. The lawyers are quite insistant on these being fully prepared.

In the future we propose to send the applicant MF-200 so that he will know the first time what he is expected to sign.

The applicant states he has no maps, but in the original application dated February 6 he gives a number of assays from the north and south drifts which probably could be located on a sketch.

We would appreciate your comments on this case. Enclosed is our complete file on this case as well as letter to the applicant.

Very truly yours,

Tom Lyon

Tom Lyon
Chairman, Coordinating Committee

Enclosure

J. B. Moon

Bureau of Mines

Olaf N. Rove

Geological Survey

GBHolderer:ec

CC: Adm. Reading File
Mr. Strobel
Regional Field Team Region IV
Coordinating Committee
Mr. Moon
Mr. Bradley
Mr. Lemmon
Mr. Geehan
Files

FILE COPY
SURNAME:

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

Holaeen
Lemmon
Kuhan
Moon
Rorr

JUN 6 1951

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

In reply please refer to
DMA-651 x

Dear Mr. Cook:

We have your letter of May 19 concerning your application for an exploration loan.

Your problem is is essentially how to sell your ore at a profit. There are no plans on foot for establishing ore buying depots so you would still be up against the same old difficulty even if an exploration loan were granted.

We are referring your application to the DMA Field Team for further suggestions as to what help we can render.

A lump sum should be requested instead of a monthly estimate.

We are enclosing a copy of Form MF-200 to show the contract that must finally be signed. We draw your attention particularly to the "Exhibits" which are requested, assay map, etc.

Very truly yours,

Tom Lyon

Tom Lyon
Director, Supply Division

Enclosure

cc: Adm. Reading File
Mr. Strobel
Field Team - Reg. IV
Mr. Bradley
Mr. Lyon
Files

FILE COPY
SURNAME:

Mollard Bradley

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

April 25, 1951

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

In reply please refer to
DMA-651

Dear Mr. Cook:

We have been delaying the answer to your letter of February 6, pending the settlement of the tungsten ceiling price, and authorization of our tungsten buying program and our exploration program, all of which we prepared many weeks ago.

As yet we have no plans for the purchase of ore, but if ore purchase depots are established, they will probably be situated at operating mills which can convert the ore to usable concentrate. Currently, the Government purchases only concentrate that meets specifications.

It is possible that you might be able to arrange to ship tungsten ore from Gold Hill to the Getchell Mine at Red House, Nevada for custom milling. We understand also that the mill in Salt Lake City now treating the old MRC stockpile will accept custom ore.

The Defense Minerals Administration is prepared to make loans for part of the cost of mineral exploration. On approved projects, the Government will accept applications for loans to cover 75 percent of the cost of exploration, and the applicant must raise 25 percent. If the project is successful, the money is repayable. I am enclosing five copies of application Form MF-103 for an exploration loan, and a copy of information sheet MO-5. Judging by your letter you should be interested in this type of assistance. If so, please fill the form in quadruplicate and return to this office.

Very truly yours,

P. R. Bradley ec

P. R. Bradley, Jr.
Chief, Tungsten Branch

Enclosure

DMLemmon:PRBradley:gt:mem

cc: Adm. Reading File
Mr. Lemmon
FILES
Mr. Strobel
Mr. Bradley

DMA 651

856

Draft

Memorandum

To: Director, Supply Division

From: Tungsten Branch

Subject: Loan application of Star Dust Mines, Inc. DMA-651 Tungsten
(Fred Cook, president)
283 East South Temple
Salt Lake City, Utah

Property: Star Dust mine (EHB and Star Dust claims)
Gold Hill, Tooele County, Utah

Proposal: (1) Needs market for tungsten ore containing 0.5 to 1.5 percent WO_3

(2) Wants loan of $100,000 for mine exploration and development to prove enough ore to justify a mill at Gold Hill.

Conclusion: The deposits are not large and probably never will provide enough ore to warrant a mill. Some ore can be produced for shipment, probably in quantities comparable to 1942-44 output (2,373 tons containing 2,933 units), perhaps more. A market should be provided for this ore. The total output of WO_3 from the Gold Hill district 1915-45 was about 12,000 units.

Recommendation

Suggest to the applicant that ore might be sent to Getchell mine for milling. Send him information about exploration loans. A letter to the applicant, attached herewith, has been prepared for signature of the Director, Supply Division.

P. R. Bradley, Jr.
Chief, Tungsten Branch

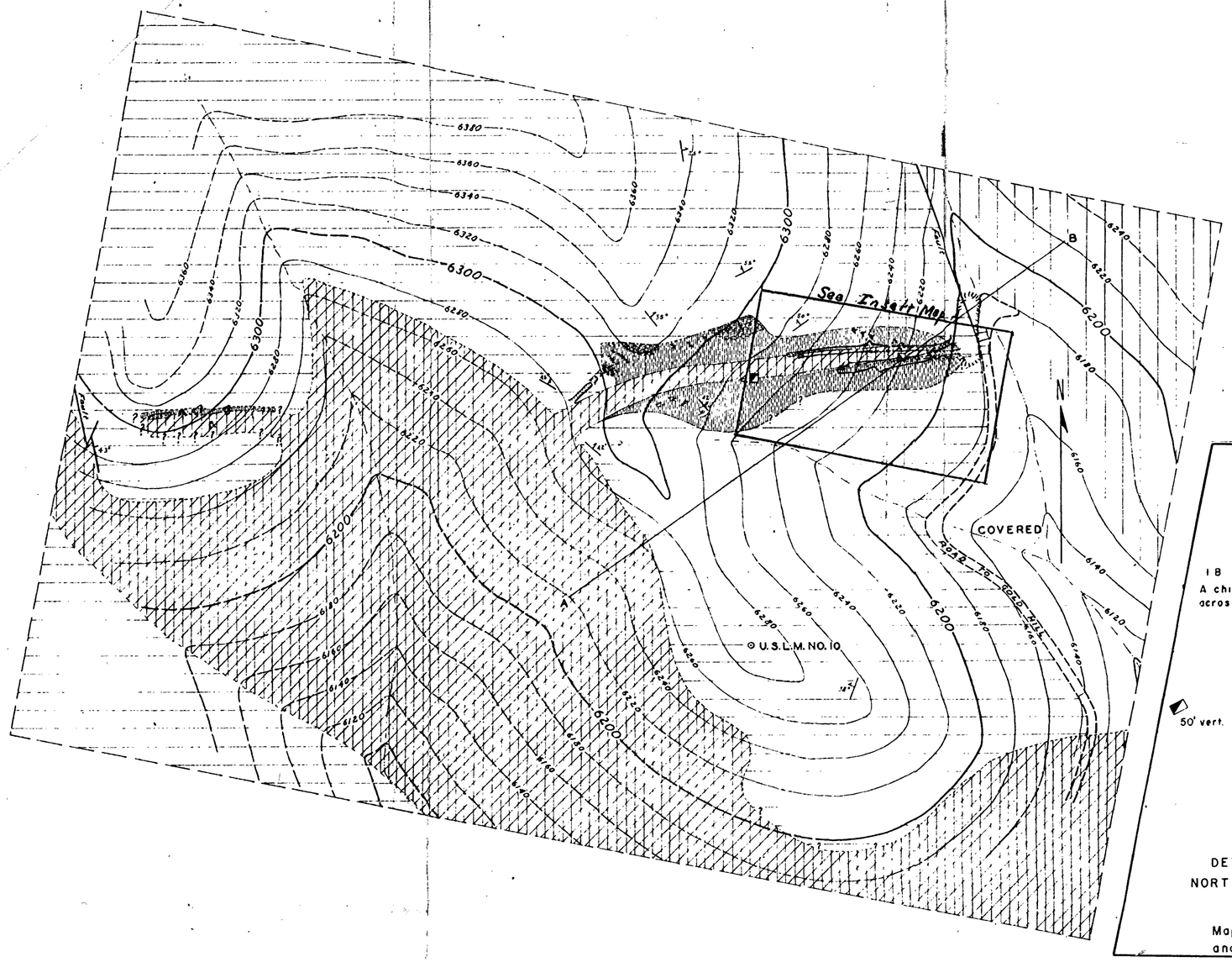
DMLemmon:gt

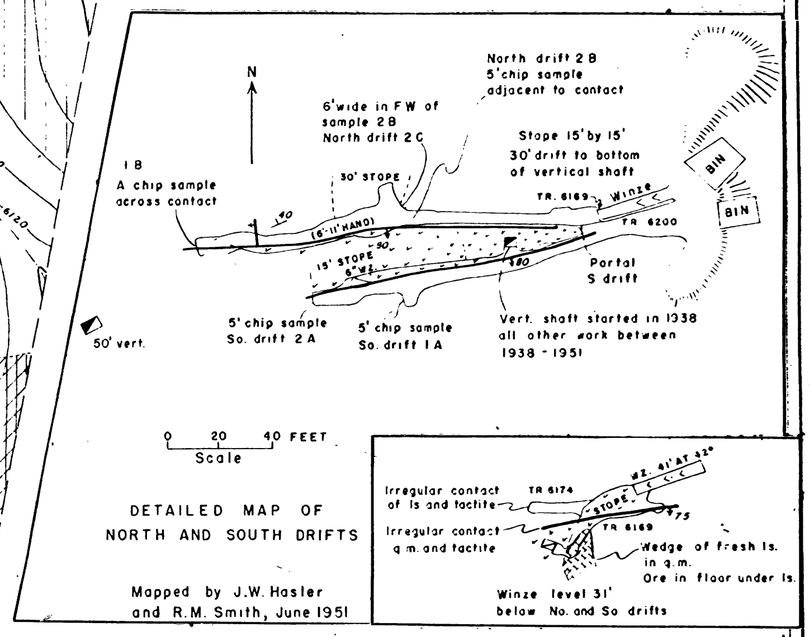
3/14/51

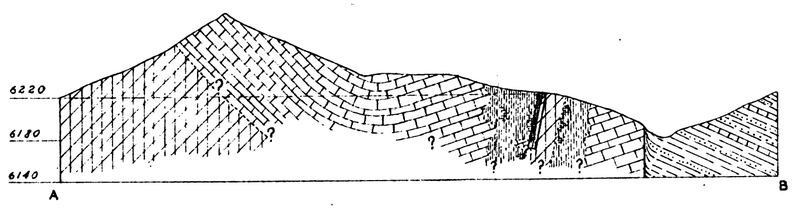
Hold for application loan information.

DMA-651

3-15-51







SECTION ALONG LINE A-B

EXPLANATION:

- QUARTZ MONZONITE
- MANNING CANYON FORMATION (SHALE, ETC.)
- OCHRE MOUNTAIN LIMESTONE
- TACTITE (SCHEELITE-BEARING AREAS CROSS-HATCHED)

GEOLOGIC MAP

SCHEELITE DEPOSITS ON THE E.H.B. CLAIM
STARDUST MINING COMPANY

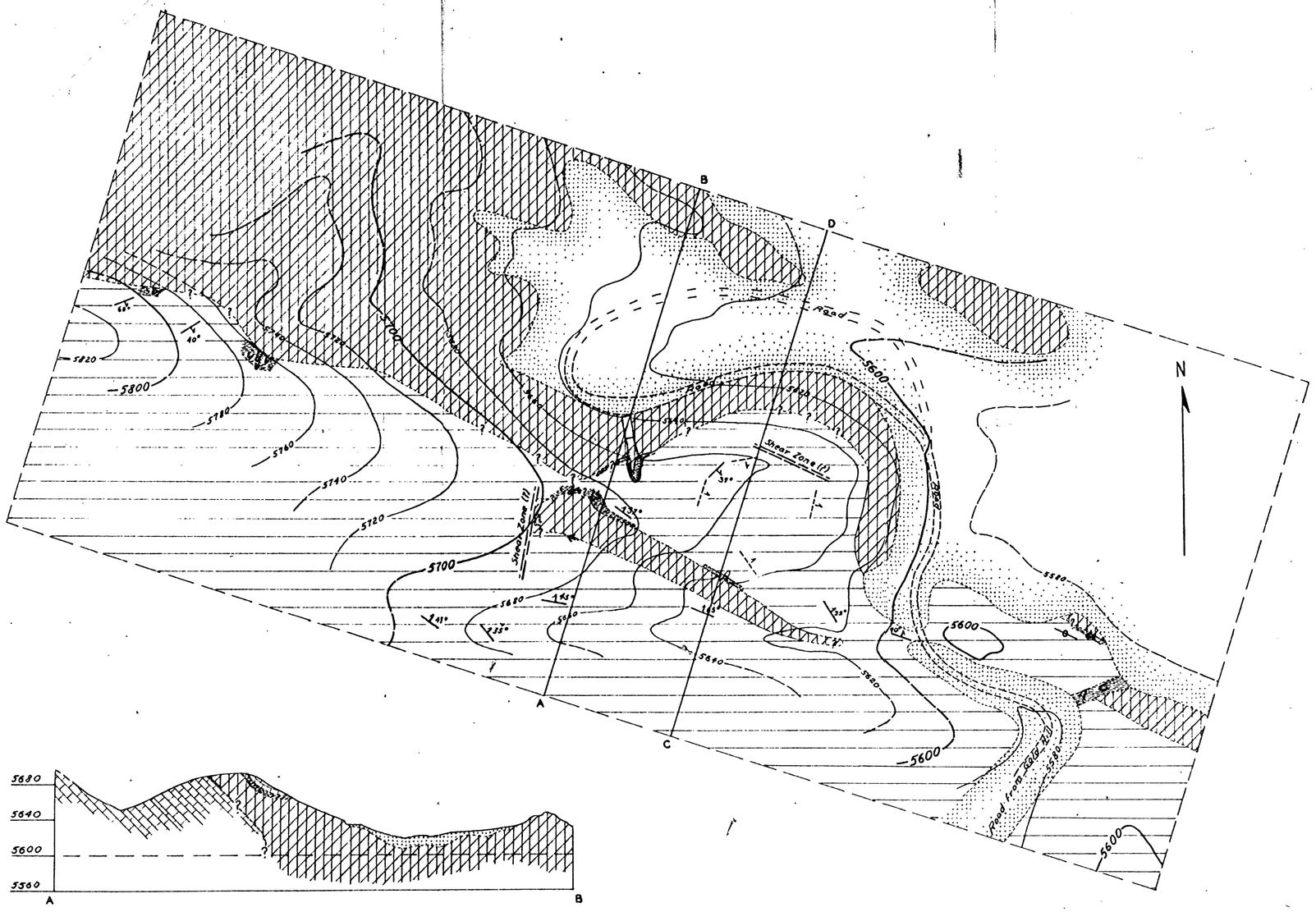
GOLD HILL MINING DISTRICT
TOOELE COUNTY, UTAH

CONTOUR INTERVAL 20 FEET SCALE: 1 INCH = 100 FEET

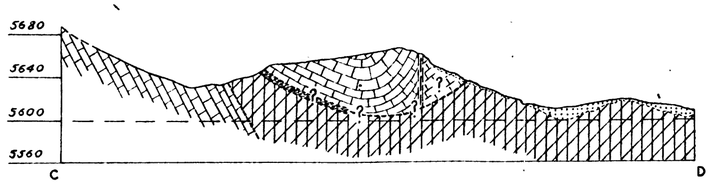
0 50 100 200 FT.

MAPPED BY S.W. HOBBS AND S.E. CLABAUGH
U.S. GEOLOGICAL SURVEY
DECEMBER, 1942

FIG. 2



SECTIONS ALONG LINES A-B AND C-D



EXPLANATION:

- ALLUVIUM
- QUARTZ MONZONITE
- CRYSTALLINE LIMESTONE, OCHRE MOUNTAIN FORMATION
- TACTITE, (CHIEFLY SCHEELITE-BEARING)

GEOLOGIC MAP

SCHEELITE DEPOSITS ON THE LAST CHANCE CLAIMS
STARDUST MINING COMPANY

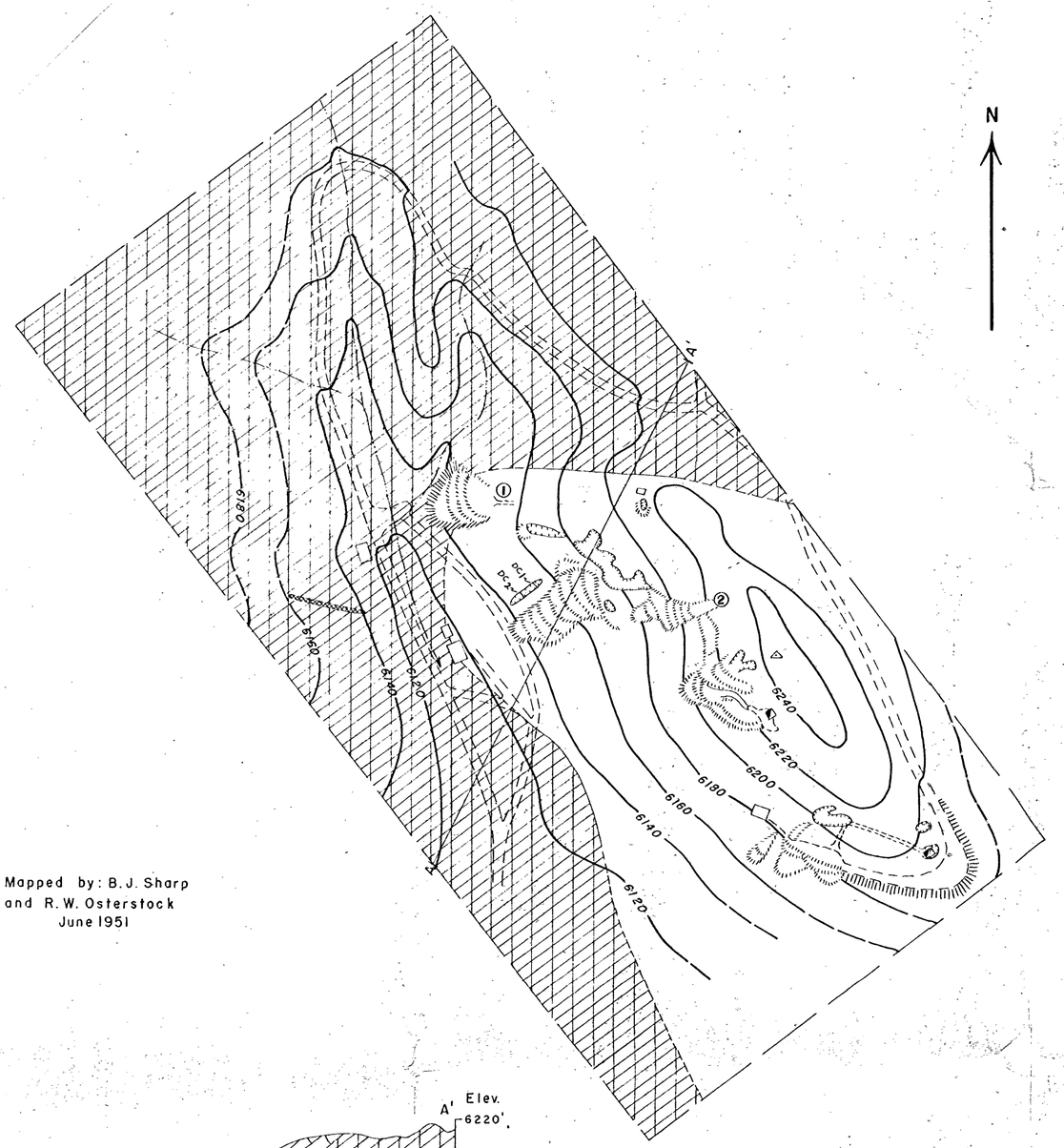
GOLD HILL MINING DISTRICT
TOOELE COUNTY, UTAH

CONTOUR INTERVAL 20 FEET SCALE: 1 INCH = 100 FEET

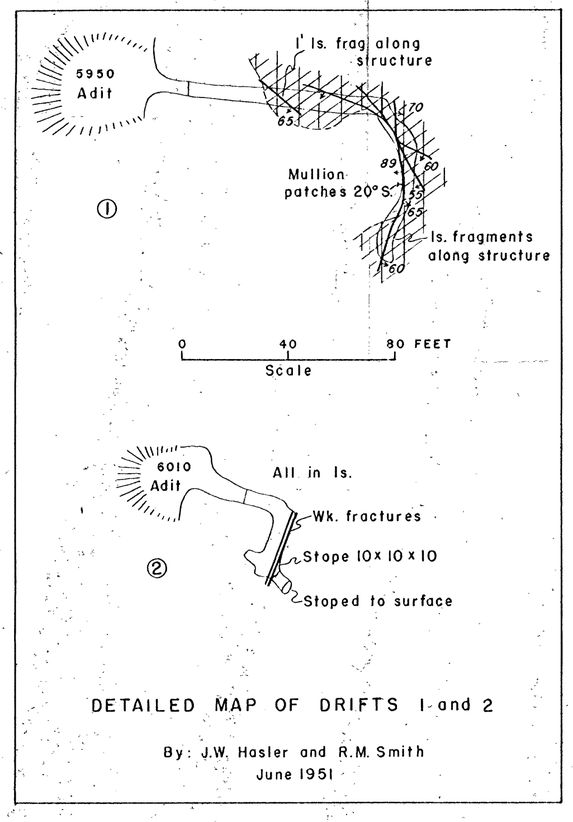
0 50 100 200 Ft.

MAPPED BY S. W. HOBBS AND S. E. CLABAUGH
U. S. GEOLOGICAL SURVEY
DECEMBER, 1942

FIG. 3

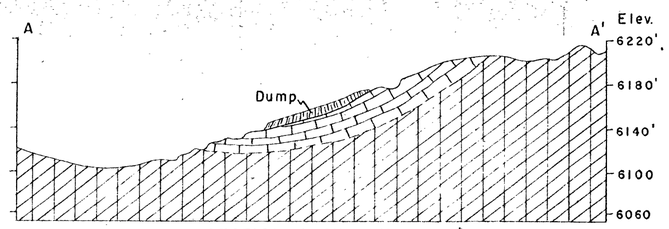


Mapped by: B.J. Sharp
and R.W. Osterstock
June 1951



DETAILED MAP OF DRIFTS 1 and 2

By: J.W. Hasler and R.M. Smith
June 1951



SECTION ALONG LINE A-A'

EXPLANATION

Quartz monzonite

Crystalline limestone, Ochre Mountain formation

Tactite

Contact (Dashed where approx. located)

Fault, showing dip

Open pit

Underground workings

Shaft

Dump

FIG. 4 PLAN AND SECTION OF WORKINGS ON THE STAR DUST EXTENSION CLAIM, STAR DUST MINES INC., TOOELE COUNTY, UTAH

0 50 100 200
Scale

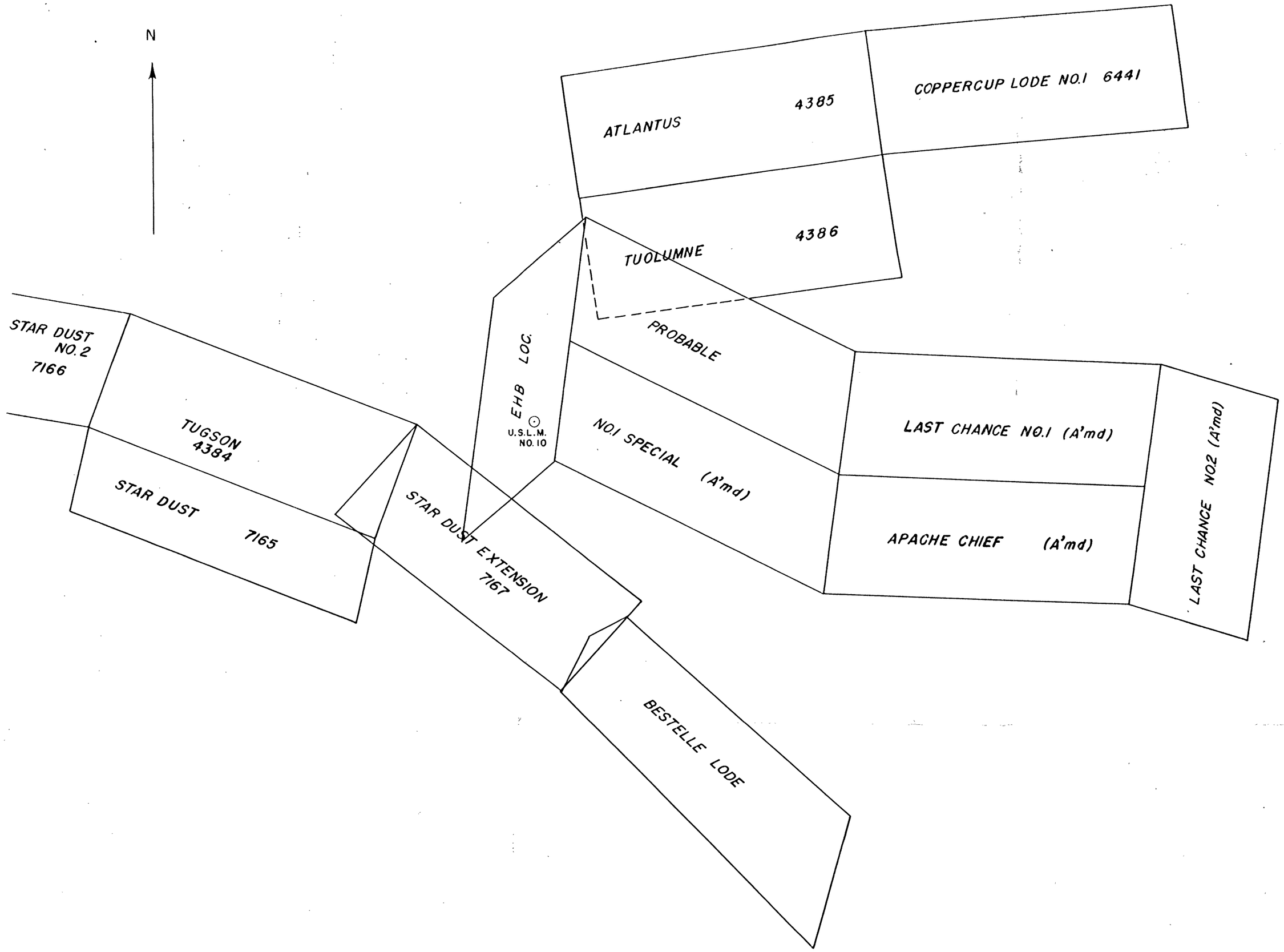


FIG. 5

CLIFTON MINING DISTRICT

0 200 400 800 FEET
Scale