MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6662

Application
- [ ] Denied
- [x] Withdrawn

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

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

Folder No. 1:

Left Side

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

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)

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

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam. Report (Tab) 6/68
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports

- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

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

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

72195-65

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration

October 11, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 12 1967
INITIALS | CODE

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: E. E. Lewis, Inc. (Silver)
Lambertson Property - Star Mine
Gunnison County, Colorado

Transmitted herewith is a copy of an application for financial assistance in minerals exploration on the above-stated subject. The other copy is being retained for the OME Region III field office files.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosure

MME Form 40
Jan. 65

Budget Bureau No. 42-R1508
Approval expires Dec. 31, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 12 1967
INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85–701 (72 Stat. 700; 30 U.S.C. 641)

NAME OF APPLICANT *(Full legal name and mailing address as they should appear on contract if one is executed.)*

E. E. LEWIS, INC.
P.O. Box 1481
Grand Junction, Colorado 81501

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6662

DATE RECEIVED: 10/12/67

REGION: 111

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED: Colorado

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Elbert E. Lewis	2063 S. Broadway, Grand Jct.	Pres.
John F. Peeso	1823 N. 20th, Grand Jct.	Vice-pres.
Alan M. Simpson	730 Tulip Dr., Grand Jct.	Director

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: silver

ESTIMATED COST OF PROJECT: $ 268,964.00

PROPERTY NAME	LOCATION COUNTY	STATE
Lambertson	Gunnison,	Colorado

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior,* ~~Washington 25, D.C., or the nearest OME Field Office.~~ Washington, D. C., 20242, or with the nearest OME Field Office.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

October 2, 1967
DATED

Elbert E. Lewis
BY *(Signature)*

President
TITLE

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U.S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. Physical Description:

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves, giving quantities and grades and sampling methods used. Support your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *land boundaries* or to the closest identifiable corner.

(b) If an access road must be built, show the proposed location on the property map and state the length, type and construction methods proposed.

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. (*Note*—If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant which will be used in the exploration work.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration work, stating specifications and cost including labor, materials, and supervision.

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

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

UNITED STATES BANK OF GRAND JUNCTION

GRAND JUNCTION, COLORADO

HERBERT L. BACON
SENIOR VICE PRESIDENT AND CASHIER

October 3, 1967

Mr. E. E. Lewis, President
E. E. Lewis, Inc.
P. O. Box 1481
Grand Junction, Colorado 81501

Re: Star Mine Exploration

Dear Mr. Lewis:

Thank you for your kind letter of October 2, 1967.

Your request for a loan of approximately $200,000.00 for the purpose of exploring the Star Mine located in Gunnison County has been reviewed by our Discount Committee. It is our decision that the proposed loan is of a highly speculative nature and the repayment program would make the loan of too long a duration. Consequently, I am sorry but your request has been declined.

Thank you for your inquiry and please feel free to call on us at any time.

Sincerely yours,

Herbert L. Bacon

Herbert L. Bacon
Senior Vice President & Cashier

HLB:ma

MINING CONSULTANTS
Engineering
Appraisals
Management

E. E. LEWIS, INC.
P. O. Box 1481
GRAND JUNCTION, COLORADO
Phone 243-1729

UNDERGROUND CONTRACTORS
Leasing
Mining
Tunnels & Shafts

October 2, 1967

First National Bank
5th and Main Streets
Grand Junction, Colorado

Attention: Mr. Frank Wagner

Dear Mr. Wagner:

With reference to our conversations concerning exploring the Star Mine located in Gunnison County, Colorado, on which we hold the lease and option.

We are anxious to explore the property with surface drilling and some underground work. The mine has produced high grade silver in the past, and we have a small amount of ore stockpiled that we have recovered with our prospecting work on the property this past summer. We can supply you with complete geologic information, maps, and proposed work. We estimate the cost of the work that we propose at $268,000. We will need a loan of approximately two-thirds this amount, that is, $200,000. We are prepared to repay such a loan from anticipated production from the property. We would make full assignment of our lease and option to secure the loan.

We will be glad to supply you with any information that will assist you in considering our loan request, and will assist any consultants you may wish to have examine the property. Please advise us as soon as possible as to the availability of this loan and the interest rate we can anticipate.

Very truly yours,

E. E. LEWIS, INC.

Elbert E. Lewis, Pres.

EEL/dg
cc: 3

COPY

FIRST NATIONAL BANK in Grand Junction

FRANK L. WAGNER
Senior Vice President

GRAND JUNCTION, COLORADO

October 3, 1967

Elbert E. Lewis, President
E. E. Lewis, Inc.
P.O. Box 1481
Grand Junction, Colorado 81501

Dear Mr. Lewis:

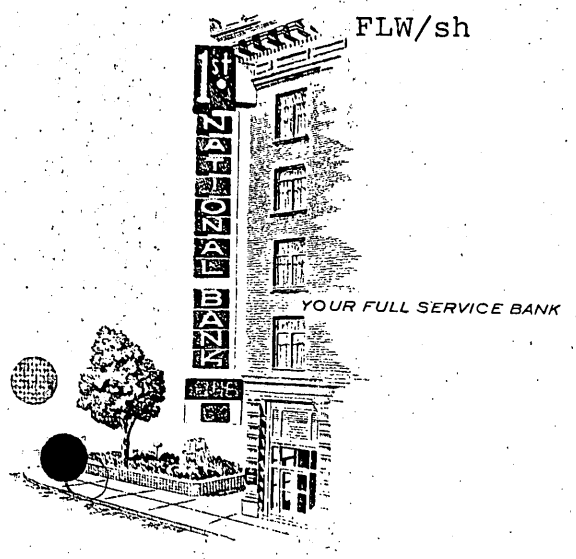
Thank you for your letter of October 3, 1967, in which you request a loan of approximately $200,000.00, to cover the cost of exploratory work including surface drilling and underground work in connection with some mining property located in Gunnison County. Your letter further states that the payment of a loan, if made, would be repaid from anticipated production from the property.

Since the exploration work has not been completed and you are unable to determine the amount of ore in reserve, we would be unable to commit on a loan of this type. Nevertheless, we do appreciate your considering our bank and making application to us for a loan of this purpose.

Yours very truly,

Frank L. Wagner
Senior Vice President

FLW/sh



Copy to Washington 10-11-67.

MINING CONSULTANTS
Engineering
Appraisals
Management

E. E. LEWIS, INC.
P. O. Box 1481
GRAND JUNCTION, COLORADO
Phone 243-1729

UNDERGROUND CONTRACTORS
Leasing
Mining
Tunnels & Shafts

October 3, 1967

LETTER OF TRANSMITTAL

To: Office of Minerals Exploration
Denver Federal Center
Denver, Colorado

Gentlemen:

Enclosed herewith are two copies of Application for Financial Assistance in Minerals Exploration, together with supporting documents.

The subject property is located at approximately 11,500 feet elevation. Although we appreciate that the loan, if approved, will not be made available to start work this fall, it will be appreciated if the field examination can be made this fall so that proposed exploration work can commence as early as the weather will permit, probably in May or June, 1968.

Very truly yours,

E. E. LEWIS, INC.

Elbert E. Lewis

Elbert E. Lewis, Pres.

EEL/dg
Encl.

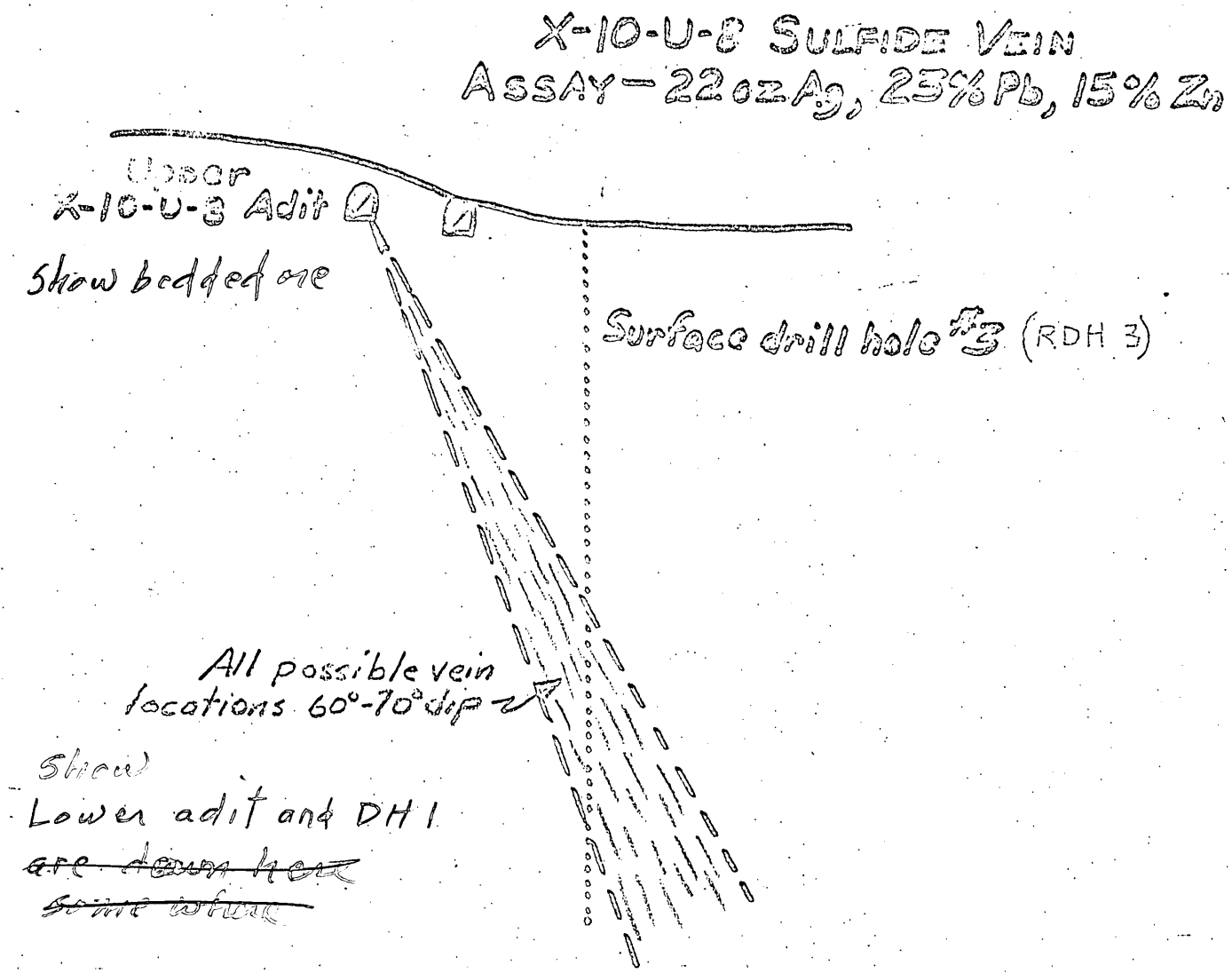
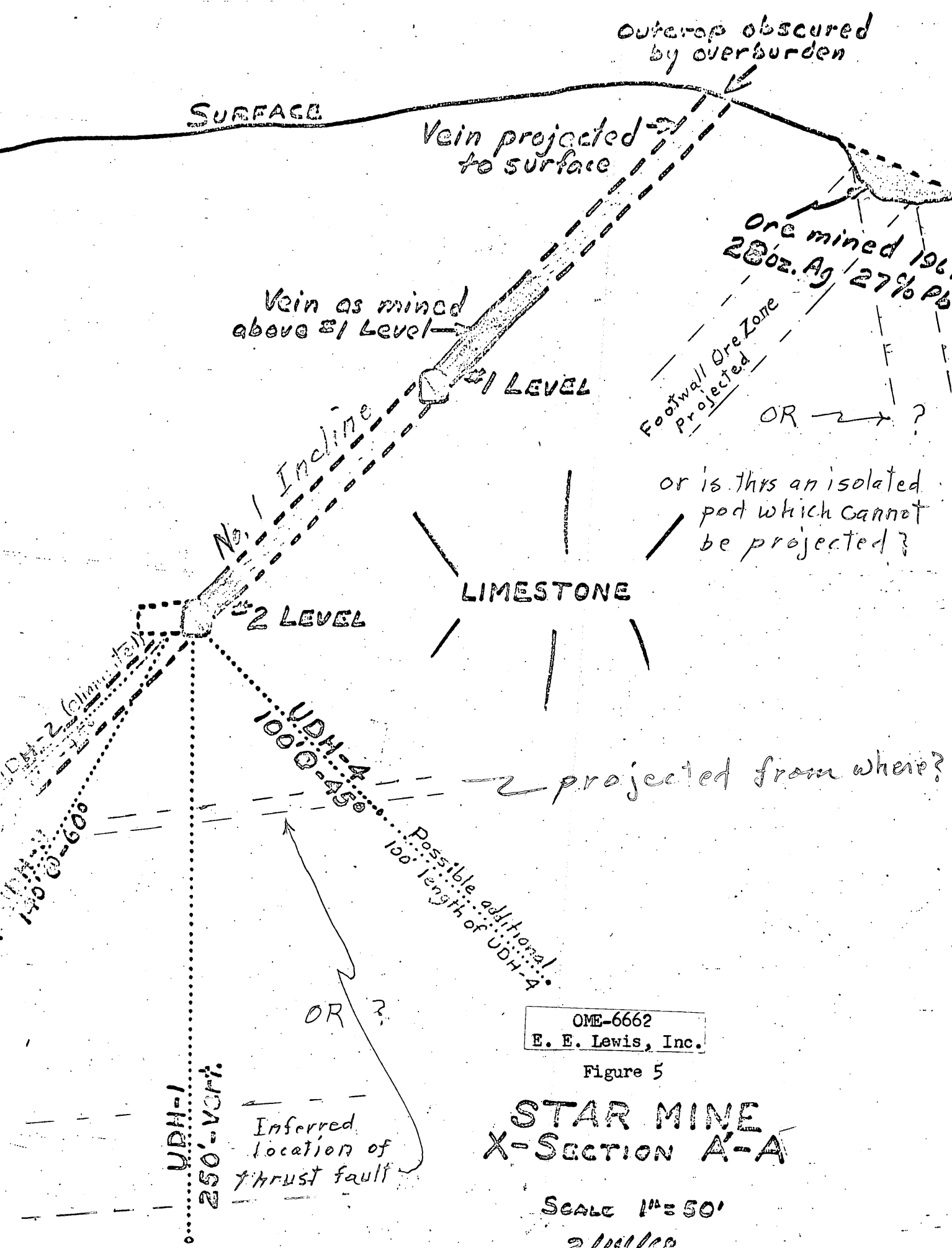


Figure 3. STAR MINE
X-SECTION B-B

SCALE 1" = 50'



OME-6662
E. E. Lewis, Inc.

Figure 5

STAR MINE
X-SECTION A'-A

SCALE 1" = 50'

APPLICATION FOR O. M. E. ASSISTANCE

LAMBERTSON PROPERTY
Gunnison County, Colorado

1. (a) See copies of letters from the United States Bank, Grand Junction, Colorado, and the First National Bank, Grand Junction, Colorado.

   (b) Beaver Mesa Uranium, Incorporated, Grand Junction, Colorado, owns all E. E. Lewis, Inc., stock.

   (c) Cash, supervisory services.

2. (a) E. E. Lewis, Inc., controlls the property by a lease and option agreement, a copy of which is enclosed.

   There are no liens or encumberences known.

   (b) The property consists of ten patented and seven unpatented lode claims, but seven of the patented lode claims are to be excluded from the application. These are Iron, Iron Duke, Iron Duke No. 2 (U. S. pat. survey No. 19417), Bull Domingo, Bull Domingo No. 2 (U. S. pat. survey No. 16461), Bull Domingo No. 3 (U. S. pat. survey No. 20493), and Last Hope #2 (U. S. pat. survey No. 16136).

   (c) Five signed copies of form M.M.E. 52 are enclosed.

3. (a) Prints of maps and sections depicting mine workings are enclosed with the geological report.

   (b) E. E. Lewis, Inc., is lessee and operator of the mines.

   (c) Incomplete production data are submitted with the geological report.

   (d) Assay maps and projected ore reserves are contained in the geological report submitted herewith.

   (e) Information relative to ore minerals, host rocks, geologic structure, etc., are found in this report.

   (f) Sections drawn through the ore zones exposed in existing mine workings show the projected ore which we propose to explore. This occurs in areas undeveloped by drilling or mine workings so no samples are available.

   The strength and amount of mineralization exposed in present mine workings justify projecting the ore zone to

depths proposed for exploration. There is reason to believe the new ore to be discovered by this proposal will be unoxidized, at least in a large part, and will, therefore, be easily amenable to concentration by milling. Remnants of sulphide ore are found in the upper adit on the X-10-U-8 #2 claim and in the deeper levels of the Independent Mine.

Accessible mine workings have explored a breccia zone in the Leadville limestone without much penetration of the bedding above or below the breccia. We believe there is a good possibility of finding ore in the bedding and along the thrust fault zone which presumably underlies the mine area.

(g) Geologic maps submitted are reproduced from those included in a Masters Thesis prepared by Howard L. Garrett for presentation to Colorado School of Mines in March, 1950.

Assay maps and sections were prepared by the staff of E. E. Lewis, Inc., as part of their study of the mine. Note that the property map, submitted by Garrett, is not accurate so it has been replaced.

4. (a) A representative of E. E. Lewis, Inc., will be available to accompany O. M. E. representatives to visit the project area.

The property is reached from Almont via 26 miles of gravel road up Spring Canyon to Taylor Park, thence 8 miles up Italian Creek via unimproved dirt road to the mine, which is in Section 35, T12S, R84W, 6th Principal Meridian.

Mine workings are partly accessible with exception of the third level of the Independent and the lower adit on the X-10-U-8.

(b) Supply and shipping points are Gunnison and Salida, Colorado, respectively. Gunnison, the supply point, is 56 miles from the mine and Salida is 121 miles.

5. (a) Exploration of the Star, Independent and x-10-U-8 mines is proposed in two stages. Stage 1 consists of surface rotary drilling and diamond drilling and minor repair and rehabilitation of workings to permit underground diamond drilling. Stage 2 proposes drifting or crosscutting to areas of favorability disclosed by stage 1 followed by additional drilling as indicated by structure and mineralization revealed in exploration headings.

Stage 1 Exploration

O.M.E. Plate 1, a compsite plan assay map of the Independent and Star mines, shows proposed underground diamond drilling. Hole UDH-1 (Underground drill hole) is a vertical hole 250 feet deep drilled from the 2nd level of the Independent mine. It has two objectives: first, to explore mineralized Leadville limestone in the footwall of the breccia zone under a disseminated silver-lead-zinc zone exposed on the level; and second, to continue to the thrust fault which is projected under the mine area. Since the thrust is presumed to be pre-mineral in age (ore solutions are probably related to the younger porphyritic monzonite which intrudes the overturned Paleozoic sediments) the sheared rocks in the thrust zone should make an excellent host for ore deposition. Holes UDH-2, 3, and 4 will prospect known ? from? mineralized bedding in the Leadville formation at shallower depths. Stage 2 drilling will be dependent upon result of stage 1 in this area.

Prospect in F.W.

Expln in ore zone

In order to do this drilling it will be necessary to repair the Independent shaft and set a better hoist to handle the drill, rods, and supplies. The main incline will require cleaning and installation of air and water pipe lines. Plastic hoses can be used on the 2nd level.

$13,500.00

Surface rotary drilling is proposed to explore areas not in close proximity to the accessible mine workings. Holes proposed in stage 1 are shown on O.M.E. Plate 2.

Rotary hole 1 will explore the main breccia ore zone northwest of mine workings and down the rake of the known orebodies. Surface drilling is necessary here because the 3rd level and the northwest end of the 2nd level are inaccessible so it is less expensive to prospect the zone by drilling from the surface. This hole will be stopped after penetrating the breccia zone-- it will not test the underlying limestone unless it cuts

400'

bedded mineralization. If so, it should be run an additional 100 feet. 250?

Rotary hole 2 is designed to prospect bedded as well 500' as breccia ore zones west of the main orebody in the Independent mine and along the Domingo ore trend. No sec.

Hole 3 is proposed to define structure and bedded ore found in the upper x-10-U-8 workings. Ore stockpiled on the x-10-U-8 dumps assay 68.86 oz. silver on the "Red Dump" and 14.34oz. silver on the upper dump. Copper, silver and lead minerals show in the shallow upper workings at the end of the road (O.M.E. Plate 2). A porhyritic granite contact is exposed in the road cut below the Black Warrior shaft. Projection of this contact down dip would indicate that the x-10-U-8 adit should have cut the granite but conversations with John Lambert, who drove the adit, reveals this was not so. The adit is now caved so inspection of these workings is impossible, hence a rotary drill hole. If this hole shows favorable limestone at the elevation of the X-10-U-8 adit, then stage 2 rehabilitation of the adit and underground drilling is warrented. A. clean out adit?

If rotary hole 3 shows granite at the adit level, holes proposed from the end of the adit should be run from the surface and inclined down at suitable angles (depending on the elevation of the granite contact) to prospect the X-10-U-8 ore zone as part of stage 1 drilling.

Rotary hole 4 will prospect the F.W. bedding about mid-way between the Bull Domingo shaft and the main ore zone of the Independent shaft.

Rotary hole 5 is situated along the projection of the main Independent-Star ore zone southerly from the French Stope. This hole will determine if the main breccia ore zone continues beyond the French Stope.

X-10-U-8 Area

The lower adit of X-10-U-8 was driven 296 feet northwesterly to get under ore showing in two upper adits. This adit is now caved at the portal and to an undetermined depth. If results of rotary hole 3 are favorable, the adit should be cleared and diamond drill holes run from the western end as shown on O.M.E. plate 2 as part of stage 1 exploration.

X-10-U-8 drilling recommended consist of 3 diamond drill holes, 200 feet deep, to prospect the area under ore mined from the upper adits. Here, the bedding dips 20 to 30 degrees south or southwest but steep north and northeast faults may have dragged the beds so that local attitudes are unreliable. Since the formations are overturned, the favorable Leadville underlies the Manitou dolomite exposed in surface drilling because there is an unknown thickness of Manitou dolomite plus 62 feet of Chaffee formation to penetrate before encountering the favorable Leadville limestone. If the granite has hot been faulted into the position where the Leadville is expected, this area should be very favorable for ore deposition. ?

Stage 2 Exploration

Where mineralization is found by stage 1 rotary drilling, additional offset holes should be run to extend our knowledge of the ore zone. These holes will be deeper than stage 1 holes, thus a budget should be provided for not less than an additional 2,000 feet of rotary drilling in stage 2.

Also, if drilling from the 2nd level in the Independent mine is favorable, the main incline should be mucked out and a crosscut run to a point under the shaft and a raise extended to the shaft thus making vertical hoisting from the 3rd level possible. Prep. for mining?

5. (b) None.

(c) Starting the project depends on weather since elevations at the mine are about 11,500 feet. Work could probably be commenced in April or May, 1968.

6. A brochure of E. E. Lewis, Inc., supervisory personnel is enclosed. We have been successful in mine contracting and leasing in this locality for the past 14 years.

7. All work will be done by independent contractors at prices stated below:

7. (a) Stage 1 Exploration

Item	Amount	Unit Cost	Total	Mine Area
Shaft Repair	170 ft.	$ 50.00	$8500.00	Independent
Main Incline	110 ft.	40.00	4400.00	1st to 2nd Level
Set Hoist	1	600.00	600.00	Surface
Surface Rotary Drilling				
Hole 1	400 ft.	$ 4.00	$1600.00	Independent
Hole 2	500 ft.	4.00	2000.00	"
Hole 3	200 ft.	4.00	800.00	X-10-U-8
Hole 4	150 ft.	4.00	600.00	Projection of Bull Domingo
Hole 5	100 ft.	4.00	400.00	Star
Drill Sites	5	100.00	500.00	Preparation
Underground Drilling				
UDH-1	250 ft.	$ 10.00	$2500.00	Independent
UDH-2	100 ft.	10.00	1000.00	"
UDH-3	140 ft.	10.00	1400.00	"
UDH-4	100 ft.	10.00	1000.00	"
X-10-U-8 Area				
Opening Adit	296 ft.	$ 25.00	$7400.00	X-10-U-8
D. Hole 1	200 ft.	10.00	2000.00	X-10-U-8
D. Hole 2	200 ft.	10.00	2000.00	X-10-U-8
D. Hole 3	200 ft.	10.00	2000.00	X-10-U-8
		Total Stage 1	$38,700.00	

Stage 2 Exploration

Rotary Drilling	5x400 ft.	$ 4.00	$8000.00	Offset Stage 1
2nd to 3rd level Main Incline	110 ft.	40.00	4400.00	Reopen Independent
3rd level Crosscut	150 ft.	60.00	9000.00	To point Under shaft
Raise from XC	75 ft.	50.00	3750.00	To connect with shaft
Sink shaft	200 ft.	250.00	50,000.00	To open 4th & 5th levels
Drifting	1,000 ft.	50.00	50,000.00	Explore 4th & 5th levels
		Total Stage 2	$125,150.00	

Note:

Casing, drill mud, cement, etc., incidental to drill program shown in item 7 (c)

7. (b) Personal Services

	Total Cost
Supervision, engineering and project manager full time for one man at $850 per mont, for 6 months, Stage 1	$ 5,100.00
Geological consultant at $100 per day, 5 days per month for six months, Stage 1	3,000.00
$300 per month supervisors expenses plus per diem for consultant.	1,800.00
Hoistman at Independent shaft, $30 per day for 120 days	3,600.00
Total	$13,500.00
The same personnel would be needed for Stage 2 for one year: Supervisor, $850 per month, 12 months	$10,200.00
Consultant, $500 per month, 12 months	6,000.00
Expenses and per diem as above	3,600.00
Hoistman, $30 per day for 240 days	7,200.00
Total	$27,000.00

7. (c) Operating Supplies

Fuel for compressor, 30 gal. diesel per day, 120 days, Stage 1, at $.28 delivered	$1,008.00
Oil, greases, other minor supplies, est. $5.00 per day	600.00
Sample sacks, 100 @ $.15 each	15.00
Cement, mud, other drilling accessories	500.00
Core boxes for diamond drill core, 150 @ $2	300.00
Mine timber and stulls, est. 10 M @ $125	1,250.00
Powder, caps and fuse, est. in contract	0.00
Office supplies, postage, telephone, est. $25 per month	150.00
Total Stage 1	$3,823.00
Double, Stage 2	$7,496.00

		Total Cost
7. (d)	Four-wheel drive vehicle rental $100/mo.	$ 600.00
	Consultant's transportation, 350 miles per month @ $.10	210.00
	Hoist rental, $200 per month	1,200.00
	Compressor rental 600 cfm rotary, $1200 per month	7,200.00
	Underground "tugger" hoist on incline $50 per month	300.00
	16# mine rail and accessories (X-10-U-8) 2 tons @ $220	440.00
	Blower and vent pipe rental, $75 per mo.	450.00
	Total Stage 1	$10,400.00
	Stage 2 operating equipment one year, double Stage 1	$20,800.00
(e)	Repair road to X-10-U-8 adit. Estimate 6 hours dozer work @ $25.00	$ 150.00
(f)	None except new hoist at Independent mine listed elsewhere.	
(g)	Repair and maintenance of hoist, compressor, blower, tugger, and vehicle, est. $200 per mont, Stage 1	1,200.00
	Assaying 300 determinations for Au, Ag, Pb, Zn, Cu @ $17.00 each	5,100.00
	Accountant, part time, $50 per month	300.00
	Insurance, taxes, etc., 15% of supervisor's salary	765.00
	Total Stage 1	$7,365.00
	Double, Stage 2	$14,730.00
	Total Cost, Stage 1	$73,788.00
	Total Cost, Stage 2	$195,176.00
	Grand Total Cost	$268,964.00

Is property "4" 100, 000 or gotten out?

OME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/4/69	Emerick	120
		120
		220

AIRMAIL

MAR 4 1969

E. E. Lewis, Inc.
P. O. Box 1481
Grand Junction, Colorado 81501

Re: OME-6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

Gentlemen:

This will acknowledge your letter of February 27, 1969 requesting that your application be placed in an inactive status. We are, therefore, considering your application as having been withdrawn and are placing it in our inactive files.

We are returning the technical material of the application to you but have retained the original copy of the non-technical material in accordance with the General Instructions on the application form. This copy is the Government's permanent record of your application and the information contained therein can be referred to in the event you should wish to reopen this case at any time in the future. You may do this by filing a new application, referring to this OME docket number, and furnishing the information pertinent to your new proposal. This information should include new bank letters dated within 90 days of filing the new application but need not repeat data already submitted.

Sincerely yours,

Harold Kirkemo (gfa)

Harold Kirkemo, Acting Chief
Office of Minerals Exploration

Enclosures

cc: Director's Reading File
Economic Geology File
OME Docket
OME Region III w/copy of incoming ltr. dtd 2/27/69
Mr. Emerick

WLEmerick/bsl 3/4/69

MINING CONSULTANTS
Engineering
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Management

E. E. LEWIS, INC.
P. O. Box 1481
GRAND JUNCTION, COLORADO
Phone 243-1729

UNDERGROUND CONTRACTORS
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February 27, 1969

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Mr. Frank E. Johnson, Chief
Office of Minerals Exploration
United States Department of the Interior
Geological Survey
Washington D.C. 20242

Re: OME-6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

Gentlemen:

Reference your letter of January 7th.

The extension of 90 days for this project to April 1, 1969, was sincerely appreciated. It must be recognized that since November of 1968, prior to our original letter, the Star Mine, which is located at an elevation of approximately ? feet, has been covered with snow and the property inaccessible. It is estimated by forest service personnel that the snow on Italian Mountain would at this time be in excess of 120" in depth.

We recognize that you can not hold this file open indefinitely. We therefore request that if it is possible for our application to be placed in an inactive status so that we may make an amendment proposal in June, that this be done in June of this year. If this is not possible, we would appreciate a return of all our material (Application OME-6662) so as to minimize the preparation of the material for a resubmittal of the application.

Very truly yours,

E. E. LEWIS, INC.

Elbert E. Lewis

Elbert E. Lewis, Pres.

EEL/dg

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
1/7/69	Emerick	120
1/3/69	Kirkham	120
		110
		220
		120M

JAN 7 1969

AIRMAail

E. E. Lewis, Inc.
P. O. Box 1481
Grand Junction, Colorado 81501

Re: OME-6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

Gentlemen:

Your letter of December 23, 1968 to Mr. J. William Hasler, Field Officer, Region III, in regard to the subject application has been referred to this office.

Administrative and fiscal considerations do not allow this office ordinarily to defer action indefinitely on an application. It appears, however, that inclement weather last fall on the Star project prevented conclusion of necessary rehabilitation work, which you were informed was a pre-requisite to OME participation in the project.

Under these circumstances, we shall be pleased to continue holding your application in our active file for a period of 90-days, or until April 1, 1969. On or before this date it is requested that you inform this office of your immediate intentions in regard to the application.

Sincerely yours,

FRANK E. JOHNSON (gle)

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region III
Mr. Emerick

WLEmerick/bsl 1/7/69

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P. O. Box 1481
GRAND JUNCTION, COLORADO
Phone 243-1729

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December 23, 1968

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OME Region III
RECEIVED
DEC 27 1968
Denver, Colorado

J. William Hasler
Field Officer, Region III
Office of Minerals Exploration
United States Department of the Interior
Building 53, Room 203
Federal Center, Denver, Colorado 80225

Re: OME 6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

Dear Mr. Hasler:

Per our last telephone conversations, you indicated that it would be necessary for us to do the necessary rehabilitation work prior to any O.M.E. participation in the Star project. Inclement weather during the fall prevented our accomplishing the work this fall. We anticipate during the forthcoming season accomplishing this work and amending our application including submitting the additional geological information requested.

Your continued indulgence will be appreciated.

Very truly yours,

E. E. LEWIS, INC.

Elbert E. Lewis

Elbert E. Lewis, Pres.

EEL/dg

Office of Minerals Exploration
Building 53 Room 203

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DEC 18 1968
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	131
BJR	120
on leave	110
HX	120
INTE	120

December 16, 1968

Mr. E. E. Lewis
E. E. Lewis, Inc.
P.O. Box 1481
Grand Junction, Colorado 81501

Re: OME 6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

Dear Mr. Lewis:

In a letter to OME of August 26, 1968 you indicated that you were obtaining additional geologic data on the subject property, and asked that your application be held in our file pending arrival of the additional data.

Would you please inform us, at your earliest convenience, what your present plans are for the subject property in so far as the Office of Minerals Exploration is concerned.

Sincerely yours,

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

cc: Chief, OME
OME Chron
Mr. Hasler
OME 6662

Office of Minerals Exploration
Building 53 Room 203

September 16, 1968

Mr. E. E. Lewis
E. E. Lewis, Inc.
P. O. Box 1481
Grand Junction, Colorado 81501

Subject: OME-6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

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~~110~~
HK ~~120~~
(smith)

Dear Mr. Lewis:

This is in reply to your letter of August 26, 1968. Please pardon my delay in asnwering your letter as I have been out of the state much of the time since its arrival.

We will await the submission of the requested geologic data in my letter of August 9, 1968 and will keep your application on file for a reasonable time before further acting on it.

Sincerely yours,

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

cc: Chief, OME
cc: OME-6662
OME chron
Mr. Hasler

MINING CONSULTANTS
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Management

E. E. LEWIS, INC.
P. O. Box 1481
GRAND JUNCTION, COLORADO
Phone 243-1729

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JWH

August 5, 1968

OME Region III
RECEIVED
AUG 6 - 1968
Denver, Colorado

Mr. William Hasler, Field Officer
Office of Minerals Exploration
Department of Interior
U. S. Geological Survey
Denver Federal Center
Denver, Colorado 80225

Dear Bill:

The season is more than half over at the Star Mine. We have heard nothing recently concerning our application #OME-6662.

From our last conversations I thought a contract would be forthcoming, although abbreviated from our original application.

Very truly yours,

E. E. LEWIS, INC.

Elbert E. Lewis, Pres.

EEL/dg

Chief, OME

Office of Minerals Exploration
Building 53 Room 203

August 9, 1968

E. E. Lewis, Inc.
P. O. Box 1481
Grand Junction, Colorado 81501

Subject: OME-6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

Dear Mr. Lewis:

Enclosed are four incomplete illustrations from the subject application. Please complete and return the maps with your replies to the following comments.

Washington's review indicates that a contract is not warranted by the information now in the docket, but that additional information may be available from you. The principal deficiency is that the maps and sections do not illustrate the projections of ore controls which might localize ore bodies. While the general statements about favorable areas are valid, specific targets are lacking for all but three holes. Eight of the holes appear to be wildcatting. Unless ore controls can be illustrated on maps and sections suitable for a contract, it appears that the purpose of these eight holes is to prospect for isolated pods by random drilling in the favorable area. Prospecting is not eligible for OME assistance.

In addition, the erratic distribution of the small ore bodies that were mined, evidently from above the First Level only, suggests a limited potential which could justify only a small project restricted to the best targets. From the information at hand we cannot make an evaluation of the relative merits of the four geologic settings, the six areas, or the 11 locations to be tested.

Of the 11 holes now proposed, only three--RDH 1, RDH 3, and DH 1--have targets shown on the maps. Some of the other eight holes probably have targets in specific locations, but the projections are not shown. For example, a thrust fault is "...presumed to underlie the Leadville Limestone at an unknown depth." This fault is inferred (unconvincingly) to be mineralized because it is presumed to be pre-mineral, and

therefore it is the objective of holes UDH 3 and UDH 4. Although neither the fault nor its projection is shown on any of the maps or sections, you expect it to be 75 feet below the Star 2nd Level, or about 300 feet below the surface. In spite of the location of this "nearly horizontal" thrust fault, the overlying Leadville is the objective of holes RDH 1 and RDH 2 at depths of 400 to 500 feet below the surface. This apparant inconsistency would be resolved by a section showing the projections.

Washington's review of individual holes is summarized as follows:

Surface holes (Rotary Drill Holes) RDH 1. Plate 3 (orig. application) indicates a target at the intersection of the mineralize "Flat" fault with the top of the collapse-breccia ore zone. This hole could be approved.

RDH 2. Neither the breccia zone, the thrust fault nor the Domingo ore zone is illustrated or projected, so the location and depth of the hole is open to question. A section showing the breccia, RDH 2, RDH 4, the Bull Domingo shaft and the thrust fault would be helpful.

RDH 3. One target is the downward continuation of bedded ore in the upper X-10-U-8 adit, but the limestone dips SW whereas the hole is NE of the adit. We are not able to illustrate a target on a map suitable for a contract. The other target is the 18" sulfide vein shown on section B'-B. This hole could be approved to test the vein.

RDH 4. No ore controls are projected into this area. The hole appears to be purely a wildcat.

RDH 5. As the strike and dip of the Leadville limestone is not shown there is no way to confirm or illustrate that the hole would cut the zone of collapse breccia.

Underground Drill Holes--Star Mine, 2nd level.

UDH 1. The projection of the thrust fault is not shown, so we cannot confirm or illustrate that it is expected to be cut at a depth of 75 feet, or give a clear reason for a 250-foot hole.

UDH 3. Projection of thrust fault not shown.

UDH 4. Projection of footwall ore zone not shown.

X-10-U-8 lower adit (Drill Holes)

DH 1. The 18-inch sulfide vein is a valid target as illustrated on Figure 2. This hole would further delineate any ore found by DDH 3. If bedded ore is also a target its inferred location is not evident. Subject to results of RDH 3 this hole could be approved to test the vein.

DH 2. No target is indicated. If bedded ore is supposed to be a target its inferred location is not evident. If its location cannot be inferred the hole is a wildcat and is not eligible for OME participation.

DH 3. No target indicated (see DH 2).

A further problem is raised by conflicting statements on the proposed location of RDH 5 (Figure 2), which according to another map is to be spotted on the west sideline of the Star claim. Since the adjoining Bull Domingo claim is to be excluded from the contract the latter site, if correct, cannot be approved.

In view of the limited funds available for OME contracts in Fiscal Year 1969, OME assistance is now restricted so far as practicable to direct exploration in the target area. Accordingly the rehabilitation, cross-cutting, and raising (for vertical hoisting) are not allowable and should be done at your expense.

Sincerely yours,

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

CC-Chief, OME
OME-6662
OME chron
Mr. Hasler

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/30/68	R.W. Smith	120
		120
		110
7/31	Coe	220
		120M

AIRMAIL

Memorandum

JUL 31 1968

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

Enclosed are four incomplete illustrations from the subject application relating to your Report of Examination dated May 1968, which recommends a $65,818 contract for a drilling project. Please complete and return the maps with your replies to the following comments.

Our review indicates that a contract is not warranted by the information now in the docket, but that additional information may be available from the Applicant. The principal deficiency is that the maps and sections do not illustrate the projections of ore controls which might localize ore bodies. While the general statements about favorable areas are valid, specific targets are lacking for all but three holes. Eight of the holes appear to be wildcatting. Unless ore controls can be illustrated on maps and sections suitable for a contract, it appears that the purpose of these eight holes is to prospect for isolated pods by random drilling in the favorable area. Prospecting is not eligible for OME assistance.

In addition, the erratic distribution of the small ore bodies that were mined, evidently from above the First Level only, suggests a limited potential which could justify only a small project restricted to the best targets. From the information at hand we cannot make an evaluation of the relative merits of the four geologic settings, the six areas, or the 11 locations to be tested.

Of the 11 holes now proposed, only three - RDH 1, RDH 3, and DH 1 - have targets shown on the maps. Some of the other eight holes probably have targets in specific locations, but the projections are not shown. For example, a thrust fault is "...presumed to underlie the Leadville Limestone at an unknow depth." This fault is inferred (unconvincingly)

to be mineralized because it is presumed to be pre-mineral, and therefore it is the objective of holes UDH 3 and UDH 4. Although neither the fault nor its projection is shown on any of the maps or sections, the Applicant expects it to be 75 feet below the Star 2nd Level, or about 300 feet below the surface. In spite of the location of this "nearly horizontal" thrust fault, the overlying Leadville is the objective of holes RDH 1 and RDH 2 at depths of 400 to 500 feet below the surface. This apparent inconsistency would be resolved by a section showing the projections.

Our review of individual holes is summarized as follows:

<u>Surface holes (Rotary Drill Holes)</u> RDH 1. Plate 3 (orig. application) indicates a target at the intersection of the mineralized "Flat" fault with the top of the collapse-breccia ore zone. This hole could be approved.

RDH 2. Neither the breccia zone, the thrust fault nor the Domingo ore zone is illustrated or projected, so the location and depth of the hole is open to question. A section showing the breccia, RDH 2, RDH 4, the Bull Domingo shaft and the thrust fault would be helpful.

RDH 3. One target is the downward continuation of bedded ore in the upper X-10-U-8 adit, but the limestone dips SW whereas the hole is NE of the adit. We are not able to illustrate a target on a map suitable for a contract. The other target is the 18" sulfide vein shown on section B'-B. This hole could be approved to test the vein.

RDH 4. No ore controls are projected into this area. The hole appears to be purely a wildcat.

RDH 5. As the strike and dip of the Leadville limestone is not shown there is no way to confirm or illustrate that the hole would cut the zone of collapse breccia.

Underground Drill Holes - Star Mine, 2nd level. -

UDH 1. The projection of the thrust fault is not shown, so we cannot confirm or illustrate that it is expected to be cut at a depth of 75 feet, or give a clear reason for a 250-foot hole.

UDH 3. Projection of thrust fault not shown.

UDH 4. Projection of footwall ore zone not shown.

X-10-U-8 lower adit (Drill Holes)

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DH 2. No target is indicated. If bedded ore is supposed to be a target its inferred location is not evident. If its location cannot be inferred the hole is a wildcat and is not eligible for OME participation.

DH 3. No target indicated (see DH 2).

A further problem is raised by conflicting statements on the proposed location of RDH 5 (Figure 2), which according to another map is to be spotted on the west sideline of the Star claim. Since the adjoining Bull Domingo claim is to be excluded from the contract the latter site, if correct, cannot be approved.

In view of the limited funds available for OME contracts in F. Y. 1969, OME assistance is now restricted so far as practicable to direct exploration in the target area. Accordingly the rehabilitation, crosscutting, and raising (for vertical hoisting) are not allowable and should be done at the Applicant's expense.

FRANK E. JOHNSON

Frank E. Johnson

Enclosures

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
130
Mr. Smith

RMSmith/bsl 7/30/68

MINING CONSULTANTS
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E. E. LEWIS, INC.
P. O. Box 1481
GRAND JUNCTION, COLORADO
Phone 243-1729

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July 3, 1968

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JUL 9 1968
INITIALS CODE
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JS 110
RMS 120 S

Mr. Frank E. Johnson, Chief
Office of Minerals Exploration
Room 4460, Interior Building
Geological Survey, Department of Interior
Washington, D. C. 20242

OME-6662

Dear Sir:

Reference: Telephone conversation with Mr. William Hasler July 2.

1. Will proposed UDH 2 and UDH 3 holes drilled through to thrust fault be within 100 ft. limit proposed drilling? From evidence underground it appears that the thrust faulting may be zonal. The fault appears to be nearly horizontal and the proposed holes should intersect the fault at approximately 75 and 90 feet respectively. UDH 2 has been proposed as 100 ft., UDH 3 as 140 ft. and should by our estimates intersect the fault. What estimates? No evidence of thrust fault given.

2. UDH 3 anticipates ore both hanging wall and foot wall, why? Both the hanging wall and foot wall are limestone which, in the area of the fault, should be excellent hosts for silver-lead mineralization. Further, at the point of surface exploration the better ore was found in the foot wall in the zone of the fault. The exploration of the hanging wall is incidental as it is not possible with the proposed holes to explore the foot wall without drilling through the hanging wall. This foot wall ore exposed at the surface and mined during the fall of 1967 is illustrated on Cross-section A-A' as previously submitted with the amended application. UDH-4 or UDH 1 OK

3. [All] Some proposed work has been shown on Plate 4, enclosed. Now the claim boundaries are screwed up. Cant use for Contract

4. OME Plate 1 was prepared at a larger scale than Plate 4 of the Garrett report. From spot checks made underground the workings appear to be more accurate on Plate 1 than Plate 4. The discrepancy in bearing from true north is shown on the enclosure, Plate 4. Relative positions of the workings and hole locations are useable even with slight inaccuracies.

OME Plate 1 was plotted for convenience of data and the North symbol was erroneously plotted $41\frac{1}{2}^{\circ}$ East of North.

OME Plate 2 shows correct bearings as plotted. Plate 4 from the Garrett report was apparently plotted by Mr. Garrett on true North-South bearing, but his North deflection symbol was shown relative to Magnetic North. Use for Contract

Due to the extreme shortness of the season at the Star Mine E. E. Lewis, Inc., has commenced work at the Star Mine. It is understood and recognized that any work completed prior to approval of OME application No. 6662 will not be included within the project.

We respectfully request that the application be expedited to utilize as much of the season within the project as possible.

Very truly yours,

E. E. LEWIS, INC.

Elbert E. Lewis
President

EEL/g

enc.

cc/ Mr. William J. Hasler, Field Officer
Region 3, Office of Minerals Exploration
U. S. Geological Survey
Denver Federal Center
Denver, Colorado 80225

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E. LEWIS, INC.
P. O. Box 1481
GRAND JUNCTION, COLORADO
Phone 243-1729

UNDERGROUND CONTRACTORS
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OME Region III
RECEIVED
MAR 15 1968
Denver, Colorado

March 12, 1968

Mr. William Hasler
O.M.E. Field Officer, Region III
Denver Federal Center, Bldg. 51
Denver, Colorado 80225

Dear Bill:

The enclosed copies to amendment to our O.M.E. application answers the questions in your letter from Frank Johnson and explains our reasons for requesting each item.

We hope these amendments will adequately answer all of the questions and we can have word concerning the loan by May 1.

If there is any more we can do to expedite the processing of the application, please let us know.

Sincerely,

E. E. LEWIS, INC.

John F. Peeso

John F. Peeso,
Vice-president

JFP/dg
Encl.

E.E. Lewis & Associates OME6662

2114 CURTIS STREET

TELEPHONE 623-1852

CHARLES O. PARKER & CO.

CHEMISTS • ASSAYERS • ENGINEERS

DENVER, COLORADO 80205

Folio 8976

Date Nov. 18, 1967.

Office of Mineral Exploration,
United States Geological Survey,
Denver Federal Center,
Denver, Colorado. 80225

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
6640-1-67 JMR		5.89	0.02	2.62	0.12	2+ Ox		
6662-1-67 JMR		9.69		40.75	3.60	(Bull D.)		
6662-2-67 JMR		8.13		14.20	22.88	(X-10-U-8)		

OME Region III RECEIVED NOV 22 1967 Denver, Colorado

at _____ per ounce Copper at _____ per unit

at _____ per ounce Zinc at _____ per unit

at _____ per unit _____

Charge $ 13.50

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

A M E N D M E N T

APPLICATION FOR O.M.E. ASSISTANCE
Lambertson Property, Gunnison County, Colorado

OME-6662 (Silver)

2. (a) E. E. Lewis, Inc., controls the property by a lease and option agreement, a copy of which is enclosed.

There are no liens or encumberences known.

(b) The Lambertson Property consists of ten patented and seven unpatented lode claims, but seven of the patented claims are excluded from this application.

Iron, Iron Duke, Iron Duke #2 (U.S. Pat. Survey No. 19417) and Last Hope #2 (U.S. Pat. Survey No. 16136) are not contiguous with the others and structurally separate so are not included.

Bull Domingo, Bull Domingo #2 (U.S. Pat. Survey No. 16461) and Bull Domingo #3 (U.S. Pat. Survey No. 20493) are excluded because E. E. Lewis, Inc., has not yet completed quiet title action on 1/4 interest. E. E. Lewis, Inc., has a lease on 3/4 interest and has purchased the 1/4 interest, but the title is not clear in opinion of counsel.

(c) Five signed copies of form M.M.E. 52 are enclosed.

3. (a) Prints of maps and sections depicting mine workings are enclosed with the geological report.

(b) E. E. Lewis, Inc., is lessee and operator of the mines.

(c) Production data for 1927-1928 are included with the geological report. Appended to this amendment are the latest smelter records available, years 1951, 1952, 1954, and 1955.

Since 1920 the Star Mine has been a one-man operation, John Lambertson worked alone without mechanical equipment to record the above production.

In 1967 E. E. Lewis, Inc., with 90 man-shifts produced 250 tons of ore worth over $25,000.00

These production figures indicate an orebody worthy of exploration. where ?

3. (d) Assay maps and projected ore reserves are contained in the geological report submitted herewith.

(e) Information relative to ore minerals, host rocks, geologic structure, etc., are found in this report.

(f) Sections drawn through the ore zones exposed in existing mine workings show the projected ore which we propose to explore. This occurs in areas undeveloped by drilling or mine workings so no samples are available.

do not

The strength and amount of mineralization exposed in present mine workings justify projecting the ore zone to depths proposed for exploration. There is reason to believe the new ore to be discovered by this proposal will be unoxidized, at least in a large part, and will, therefore, be easily amenable to concentration by milling. Remnants of sulphide ore are found in the upper adit on the X-10-U-8 #2 claim and in the deeper levels of the Independent Mine.

Accessible mine workings have explored a breccia zone in the Leadville limestone without much penetration of the bedding above or below the breccia. We believe there is a good possibility of finding ore in the bedding and along the thrust fault zone which presumably underlies the mine area. evidence?

(g) Geologic maps submitted are reproduced from those included in a Masters Thesis prepared by Howard L. Garrett for presentation to Colorado School of Mines in March, 1950.

Assay maps and sections were prepared by the staff of E. E. Lewis, Inc., as part of their study of the mine. Note that the property map, submitted by Garrett, is not accurate so it has been replaced.

5. (a) Exploration of the Star, Independent and X-10-U-8 mines is proposed in two stages. Stage 1 consists of surface rotary drilling and diamond drilling and minor repair and rehabilitation of workings to permit underground diamond drilling. Stage 2 proposes drifting or crosscutting to areas of favorability disclosed by stage 1 followed by additional drilling as indicated by structure and mineralization revealed in exploration headings.

5. (a) Stage 1 Exploration

O.M.E. Plate 1, a composite plan assay map of the Independent-Star Mine shows proposed underground diamond drilling. Cross-section A-A' shows the correlation of present underground workings to the open cut where E. E. Lewis, Inc., mined 250 tons of high grade silver-lead ore during August and September, 1967. A composite sample of this ore assayed 27.5 oz. silver and 26.5% lead per ton.

The distance between the Star Vein projected to the surface and the open cut indicates the vein to be much wider than previously mined or a parallel vein structure exists. Underground drill holes UDH 1, 3, and 4 are essential to explore for these possibilities.

UDH-1 (vertical) is planned to be drilled 250' to cut the thrust fault projected under the mine area. Since the thrust is presumed to be pre-mineral in age (ore solutions are probably related to the younger porphyritic monzonite which intrudes the overturned Paleozoic sediments) the sheared rocks in the thrust zone should make an excellent host for ore deposition.

from where?

UDH-4 should be continued past 100' if favorable formation exists at that depth. An additional 100' of drilling should be included for this eventuality.

Duplicates UDH 1 ?

Mr. William Hasler, O.M.E. Field Officer of Region III, believes information from UDH-2 would be negligible due to its position in the vein. We concur and agree to eliminate UDH-2 from the program.
What about UDH 3 (It looks useless to me)
Underground drilling is planned for this area because swampy ground makes surface drill locations unfeasible.

Stage 2 drilling will be dependent upon results of Stage 1 in this area. But stage 2 is Rehab. + crosscutting or drifting. (+ unspec. drilling)

In order to do this drilling it will be necessary to repair the Independent shaft and set a better hoist to handle the drill, rods, and supplies. The main incline will require cleaning and installation of air and water pipe lines. Plastic hoses can be used on the second level.

Surface rotary drilling is proposed to explore areas

5. (a) not in close proximity to the accessible mine workings. Holes proposed in Stage 1 are shown on O.M.E. Plate 2.

Rotary hole 1 will explore the main breccia ore zone northwest of mine workings and down the rake of the known orebodies. Surface drilling is necessary here because the 3rd level and the northwest end of the 2nd level are inaccessible so it is less expensive to prospect the zone by drilling from the surface. This hole will be stopped after penetrating the breccia zone--it will not test the underlying limestone unless it cuts bedded mineralization. If so, it should be run an additional 100 feet. OK

Rotary hole 2 is designed to prospect bedded as well as breccia ore zones west of the main orebody in the Independent mine and along the Domingo ore trend. not shown No evidence Cut

Hole #3 is proposed to define structure and bedded ore found in the upper X-10-U-8 workings. Ore stockpiled on the X-10-U-8 dumps assays 68.86 oz. silver on "Red Dump" and 14.34 oz. silver on the upper dump. It will also explore at depth an 18" wide, north-dipping sulfide vein that is exposed in the upper X-10-U-8. This vein assays 22 oz. silver, 23% lead and 15% zinc. Cross section B-B' shows relationship of this vein and hole #3. projected from OK

A porphyritic granite contact is exposed but mapped as a sill in the road cut below the Black Warrior Shaft. Projection of this contact down dip would indicate that the X-10-U-8 adit whould have cut the granite but conversations with John Lambertson, who drove the adit, reveals this was not so. The adit is now caved and inspection impossible, hence rotary drill hole #3. If favorable limestone is encountered at the elevation of the X-10-U-8 adit, rehabilitation of the adit and underground drilling is warranted. These underground holes are included in Stage 1 to utilize the drilling equipment while it is on the property, thus saving additional mobilization expense. prospect for ls.

If rotary hole 3 shows granite at the adit level, holes proposed from the end of the adit should be run from the surface and inclined down at suitable angles (depending on the elevation of the granite contact) to prospect the X-10-U-8 ore zone as part of Stage 1 drilling.

Not shown OUT

5. (a) Rotary hole 4 will prospect the bedding about midway between the Bull Domingo Shaft and main ore zone of the Independent Shaft. Cross-section A-A' shows the possibility of ore in the footwall limestone. Tested by UDH 4

Rotary hole 5 is situated along the projection of the main Independent-Star ore zone southerly from the French Stope. This hole will determine if the main breccia ore zone continues beyond the French Stope. O.K

Drill in all possible directions, i.e. no target - except for DH 1 down dip (??) from small adits (Target not illustrated)

X-10-U-8 drilling recommended consist of 3 diamond drill holes, 200 feet deep, to prospect the area under ore mined from the upper adits. Here, the bedding dips 20 to 30 degrees south or southwest but steep north and northeast faults may have dragged the beds so that local attitudes are unreliable. Since the formations are overturned, the favorable Leadville underlies the Manitou dolomite exposed in surface drilling because there is an unknown thickness of Manitou dolomite plus 62 feet of Chaffee formation to penetrate before encountering the favorable Leadville limestone. If the granite has not been faulted into the position where the Leadville is expected, this area should be very favorable for ore deposition. Why? It takes more than just 1s.

Stage 2 Exploration Out - too vague

Where mineralization is found by Stage 1 rotary drilling, additional offset holes should be run to extend our knowledge of the ore zone. These holes will be deeper than Stage 1 holes, thus a budget should be provided for not less than an additional 2,000 feet of rotary drilling in Stage 2.

Also, if drilling from the 2nd level in the Independent mine is favorable, the main incline should be mucked out and a crosscut run to a point under the shaft and a raise extended to the shaft thus making vertical hoisting from the 3rd level possible. Development Star Shaft ???

to the 3rd level? →

So far as I can tell there is no vertical shaft.

(b) None.

(c) Starting the project depends on weather since elevations at the mine are about 11,500 feet. Work could probably be commenced in April or May, 1968.

7. (a) Stage 1 Exploration

Item	Amount	Unit Cost	Total	Mine Area
Shaft Repair	170 ft.	$ 50.00	$8500.00	Independent
Main Incline	110 ft.	40.00	4400.00	1st to 2nd level
Set Hoist	1	600.00	600.00	Surface
		Surface Rotary Drilling		
Hole 1	400 ft.	4.25*	1700.00	Independent
Hole 2	500 ft.	4.25*	2125.00	"
Hole 3	200 ft.	4.25*	850.00	X-10-U-8
Hole 4	150 ft.	4.25*	638.00	Projection of Bull Domingo
Hole 5	100 ft.	4.25*	425.00	Star
Drill sites	5	100.00	500.00	Preparation
		Underground Drilling (AX-core)		
UDH 1	250 ft.	7.50*	1875.00	Independent
UDH 3	140 ft.	7.50*	1050.00	"
UDH 4	200 ft.	7.50*	1500.00	"
		X-10-U-8 Area		
Opening Adit	296 ft.	25.00	7400.00	X-10-U-8
D-Hole 1	200 ft.	7.50*	1500.00	"
D-Hole 2	200 ft.	7.50*	1500.00	"
D-Hole 3	200 ft.	7.50*	1500.00	"

Stage 1 Total: $ 36,063.00

* Note: Mobilization of men and equipment included in these figures.

7. (a) Stage 2 Exploration

Item	Amount	Unit Cost	Total	Mine Area
Rotary drilling	5x400 ft.	$ 4.25	$8500.00	Offset Stage 1
2nd-3rd level Main Incline	110 ft.	40.00	4400.00	Reopen Independent
3rd Level Crosscut	150 ft.	60.00	9000.00	To Point Under Shaft
Raise from X-cut	75 ft.	50.00	3750.00	To connect with Shaft
Sink Shaft	200 ft.	250.00	50,000.00	To open 4th & 5th Levels
Drifting	1,000 ft.	50.00	50,000.00	Explore 4th & 5th Levels
		Stage 2 Total:	$125,150.00	

Note: Casing, drill mud, cement, etc., incidental to drill program shown in Item 7 (c)

7. (b) Personal Services

Stage 1	Total Cost
(Supervision, engineering, and project manager full time for 1 man @ $850 per month for 6 months)	$ 5,100.00
Per diem supervisor 132 days (6x22) x 16.50	2,112.00
Geological consultant @ 75.00/day 5 days/month for 6 months	2,250.00
Per diem consultant 30 days @ 16.00	480.00
Hoistman at Independent Shaft $30/day for 60 working days.	1,800.00
Stage 1 Total:	$ 11,742.00

Stage 2	
Supervisor - 12 months @ $850	$ 10,200.00
Per diem 264 days @ 16.00	4,224.00
Geol. consultant 60 days @ 75.00	4,500.00
Per diem consultant 60 days @ 16.00	960.00
Hoistman $30/day for 240 days	7,200.00
Stage 2 Total:	$ 27,084.00

7. (c) Operating Supplies

	Total Cost
Fuel for compressor, 30 gal. diesel per day, 120 days, Stage 1, at $.28 delivered	$1,008.00
Oil, greases, other minor supplies, est. $5.00 per day	600.00
Sample sacks, 100 @ $.15 each	15.00
Cement, mud, other drilling accessories	500.00
Core boxes for diamond drill core, 150 @ $1.00	150.00
Mine timber and stulls, est. 10 M @ $125.00	1,250.00
Powder, caps and fuse, est. in contract	0.00
Office supplies, communication (Radio, telephone) $50/month	300.00
Stage 1 Total:	$3, 823.00
Double, Stage 2:	$ 7,496.00

7. (d) Stage 1

Four-Wheel Drive vehicle rental, 6 mo. @ $100	$ 600.00
Consultants transportation, 6 mo., 350 mi./mo. @ $.12	252.00
Hoist rental $200 per month, 6 months	1,200.00
Comp. rental 600 cfm rotary, 6 mo. @ $800.00/mo.	4,800.00
Underground tugger hoist on incline, 6 months @ $50.00	300.00
16# Mine rail & accessories (X-10-U-8) Purchase 2 tons @ $250	500.00
Pipe 4" (Compressed air line of fittings) 400' @ $1.00/ft.	400.00
Pipe 1" (water line) 400' @ $.25/ft.	100.00

7. (d) Blower, rent @ $60/mo., 6 months $ 360.00

Vent tubing 15", purchase 400' @ $2/ft. 800.00

Stage 1, Total: $ 9,312.00

Stage 2

Four wheel drive vehicle rental, 12 mo. @ $100/month	$ 1,200.00
Consultant's transportation, 12 mo. 350 mi/month @ $.12	504.00
Hoist rental $200 per month, 6 mo.	1,200.00
Comp. rental 600 cfm rotary 12 mo. @ $800/month	9,600.00
Underground tugger hoist on incline, 12 months @ $50/month	600.00
16# Mine rail - Independent Purchase, 4 T @ $250/Ton	1,000.00
Pipe 4" (Comp. air line of fittings) 1500' @ $1.00/ft.	1,500.00
Pipe 1" (water line) 1500' @ $.25/ft.	375.00
Blower, rent @ $60/month, 12 mo.	720.00
Vent tubing 15" purchase 1500' @ $2.00/ft.:	3,000.00
Stage 2 Total:	$19,699.00

(e) Repair road to X-10-U-8 adit, Stage 1
Estimate 6 hrs. dozer work @ $25.00/hr. $ 150.00

(f) None except new hoist at Independent mine listed elsewhere.

7. (g)	Repair & Maintenance of equipment, $200/month, 6 months	$ 1,200.00
	Assaying 300 each: Au-Ag combined @$5.00, Pb @ $4.00, Zn @ $4.00, Cu @ $4.00 for combined sample cost of $17.oo	5,100.00
	Accountant, part time @ $50/month, 6 mo.	300.00
	Ins, taxes, etc. - 15% supervisor's salary	765.00
	Stage 1 Total:	$ 7,365.00
	Double for Stage 2:	14,730.00
	Total Cost Stage 1:	$68,455.00
	Total Cost Stage 2:	194,159.00
	Grand Total Cost:	$ 262,614.00

FORM G-247
2M-7-55

AMERICAN SMELTING AND REFINING CO.

ARKANSAS VALLEY PLANT

LEADVILLE, COLO. Oct 3, 1955

BOUGHT OF John Lambertson (Star Mine) (30)

LOT NO. SMELTER 882 MINE 1

ADDRESS Crudo CLASS

SHIPPING POINT Created Butte, Colo.

QUOTATIONS OF 9/26-10/1/55 SILVER .90975 LEAD 15.50 COPPER

ASSAYS	GOLD OZ. PER TON	SILVER OZ. PER TON	LEAD PER CENT	COPPER PER CENT	INSOL. PER CENT	IRON PER CENT			ZINC PER CENT	SULPHUR PER CENT
A. S.& R. CO.	0.0	15.3	41.2							
SHIPPER	0.02	15.5	41.4							
UMPIRE										
SETTLEMENT ASSAY	0.01	15.4	41.3		32.6	4.4			0.0	2.0

CAR INITIAL	NUMBER	WEIGHT	FROZEN WT.
AV	210	117400	

PAYMENTS PER TON			DEDUCTIONS PER TON	
GOLD	@		BASE CHARGE	10.000
SILVER less 1oz.	@	13.10	INSOLUBLE	
LEAD less 5 90%	@ 2.66 PER UNIT	95.28	ZINC	
COPPPER, LESS	@ PER UNIT		SULPHUR	
GROSS VALUE OF METALS		108.38	EXCESS VALUE	
			IRON CREDIT	
			LIME CREDIT	
			LEAD CR OR DR	
LESS TOTAL DEDUCTIONS		10.00	TOTAL DEDUCTIONS	10.00

WEIGHT OF LOT 117400

WEIGHT OF SACKS

WET WEIGHT

LESS MOISTURE 1.6 %

DRY WEIGHT 115522 @ $ 98.38 PER TON $ 5,682.53

DATE LOT RECEIVED 9/19/55

FREIGHT ADVANCED, @

FEDERAL TRANSPORTATION TAX

MOISTURE

SAMPLING Wilbur Smith 7.00

FROZEN ORE

UMPIRE

SWITCHING & FEDERAL TRANS. TAX 5.19

HAULING & TRANSPORTATION TAX 12.00 Stephenson Truck Line 725.53

ROYALTY 2/12 of 10% Harvey E Watts, H.J. Watts & Mrs L.F.McCarthy 82.53

Royalty 1/2 of 10% Mrs Fern Curarick 41.26

Royalty 1/4 of 10% (Grace Kite Estate) Marine Midland Trust Co of Central New York Administrator 123.80

DIVISION OF MINERAL INDUSTRIES STATISTICS

THIS LOT CONTAINS 890 OZS. OF SILVER

CORRECT MR

CHECKED JC

JAN 2 1 1956

RATES, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE.

BUREAU OF MINES
REGION III
DENVER, COLORADO

NET PROCEEDS $4,697.22

FORM C-247
2M-7-55

AMERICAN SMELTING AND REFINING CO.

ARKANSAS VALLEY PLANT

LEADVILLE, COLO. Nov 7, 1955

BOUGHT OF John Lambe tson (Star) (30)

LOT NO. SMELTER 1126 / MINE 3

ADDRESS

CLASS Crude

SHIPPING POINT Crested Butte, Colo.

QUOTATIONS OF 10/24-29/55 SILVER .91625 LEAD 15.50 COPPER

ASSAYS	GOLD OZ. PER TON	SILVER OZ. PER TON	LEAD PER CENT	COPPER PER CENT	INSOL. PER CENT	IRON PER CENT			ZINC PER CENT	SULPHUR PER CENT
A. S. & R. CO.		19.0	45.6		31.0	2.5				
SHIPPER		19.4	45.8		30.2	2.7				
UMPIRE										
SETTLEMENT ASSAY		19.2	45.7		30.6	2.6			0.0	1.4

CAR INITIAL	NUMBER	WEIGHT	FROZEN WT.
AV	210	139160	

PAYMENTS PER TON			
GOLD	@		
SILVER Less 1 oz.	@	16.67	
LEAD. Less 5 90%	@ 2.66 PER UNIT	105.81	
COPPPER, LESS	@ PER UNIT		
GROSS VALUE OF METALS		122.48	
LESS TOTAL DEDUCTIONS		10.00	

DEDUCTIONS PER TON	
BASE CHARGE	10.000
INSOLUBLE	
ZINC	
SULPHUR	
EXCESS VALUE	
IRON CREDIT	
LIME CREDIT	
LEAD CR OR DR	
TOTAL DEDUCTIONS	10.000

WEIGHT OF LOT 139160

WEIGHT OF SACKS

WET WEIGHT

LESS MOISTURE 4.6 %

DRY WEIGHT 132759 @ $ 112.48 PER TON $ 7,466.37

DATE LOT RECEIVED 10/21/55

FREIGHT ADVANCED, @

FEDERAL TRANSPORTATION TAX

MOISTURE

SAMPLING Wilbur Smith 7.00

FROZEN ORE

UMPIRE

SWITCHING & FEDERAL TRANS. TAX 5.19

HAULING & TRANSPORTATION TAX 12.00 Stephenson Truck Line 860.01

ROYALTY 2/12 of 10% Mrs L. F. McCarthy, Harry E. Waite & H. J. Waite 110.02

~~Royalty 1/12 of 10% Mrs Fern Garnrick~~ 55.02

~~Royalty 1/4 of 10% Marine Midland Trust Co Administrator Grace White~~ 165.03

DIVISION OF MINERAL INDUSTRIES STATISTICS

THIS LOT CONTAINS 1274 OZS. OF

CORRECT HR

CHECKED JC

JAN

RATES, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE.

NET PROCEEDS $ 6,264.11

BUREAU OF MINES
REGION III
DENVER, COLORADO

FORM C-247
2M—1-54

AMERICAN SMELTING AND REFINING CO.

ARKANSAS VALLEY PLANT

LEADVILLE, COLO. Sept 2, 1954

BOUGHT OF John Lambertson (Star) (962)

LOT NO. SMELTER 8675 MINE 1

ADDRESS

CLASS Crude

SHIPPING POINT Gunnison, Colo.

QUOTATIONS 8/9-14/54 SILVER .90 LEAD 14.00 COPPER

ASSAYS	GOLD OZ. PER TON	SILVER OZ. PER TON	LEAD PER CENT	COPPER PER CENT	INSOL. PER CENT	IRON PER CENT	MANGANESE PER CENT	LIME PER CENT	ZINC PER CENT	SULPHUR PER CENT
A. S.& R. CO.		17.6	46.6		27.8	3.4				1.6
SHIPPER		17.8	46.8		28.5	3.9				0.8
UMPIRE										
SETTLEMENT ASSAY		17.7	46.7		28.15	3.65			0.0	1.2

CAR INITIAL	NUMBER	WEIGHT	FROZEN WT.
AV	201	103100	
AV	213	102680	

PAYMENTS PER TON			
GOLD	@		
SILVER Less 103.	@	15.03	
LEAD Less 5 90%	2.376 PER UNIT	96.65	
COPPPER, LESS	@ PER UNIT		
GROSS VALUE OF METALS		111.68	
LESS TOTAL DEDUCTIONS		8.08	

DEDUCTIONS PER TON	
BASE CHARGE	10.750
INSOLUBLE	
ZINC	
SULPHUR	
EXCESS VALUE	
IRON CREDIT	
LIME CREDIT	
LEAD CREDIT	2.670
TOTAL DEDUCTIONS	8.080

WEIGHT OF LOT 205780

WEIGHT OF SACKS

WET WEIGHT

LESS MOISTURE % 7

DRY WEIGHT 193540 @ $ 103.60 PER TON $ 20,025.37

DATE LOT RECEIVED 8/8/54

FREIGHT ADVANCED, @

FEDERAL TRANSPORTATION TAX

MOISTURE Wilbar Smith 7.00

SAMPLING

FROZEN ORE

UMPIRE

SWITCHING & FEDERAL TRANS. TAX 10.38

HAULING & TRANSPORTATION TAX 12.00 Stephonson Truck Line 1,271.72

ROYALTY 2/12 of 10% Harry E Watts, H.J. Watts, Mrs L.P. McCarthy 145.75

Royalty 1/12 of 10% Mrs Fern Carnrick 72.88

Royalty 1/4 of 10% Estate of Grace White 218.50

THIS LOT CONTAINS 1713 OZS. OF SILVER

CORRECT WH

CHECKED JC

RATES, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE.

NET PROCEEDS $ 8,299.11

FORM C-247
5M—7-51—15843

COLO-57

AMERICAN SMELTING AND REFINING CO.

ARKANSAS VALLEY PLANT

LEADVILLE, COLO., Aug 15, 1952

BOUGHT OF John Lambertson. (Star Mine) (962)

LOT NO. SMELTER 4010 MINE 1

ADDRESS.. CLASS Cts SHIPPING POINT Almont, Colo.

QUOTATIONS OF 8/4-9/52 SILVER .90 LEAD 16.00 COPPER

ASSAYS	GOLD OZ. PER TON	SILVER OZ. PER TON	LEAD PER CENT	COPPER PER CENT	INSOL. PER CENT	IRON PER CENT	MANGANESE PER CENT	LIME PER CENT	ZINC PER CENT	SULPHUR PER CENT
A. S. & R. CO.	0.0	16.4	39.7		34.8	4.2			1.4	1.2
SHIPPER	0.03	16.5	39.8		34.4	3.8			0.0	0.9
UMPIRE										
SETTLEMENT ASSAY	0.015	16.45	39.75		34.6	4.0			0.7	1.05

CAR INITIAL	NUMBER	WEIGHT	FROZEN WT.
AV	131	95320	

PAYMENTS PER TON		
GOLD	@	
SILVER Lessloz.	@	13.90
LEAD LESS 1.590%	@ 2.776 PER UNIT	95.56
COPPER, LESS	@ PER UNIT	
GROSS VALUE OF METALS		109.46
LESS TOTAL DEDUCTIONS		7.77

DEDUCTIONS PER TON	
BASE CHARGE	9.750
INSOLUBLE	
ZINC	
SULPHUR	
EXCESS VALUE	
IRON CREDIT	
LIME CREDIT	
LEAD CR	1.975
TOTAL DEDUCTIONS	7.775

WEIGHT OF LOT 95320

WEIGHT OF SACKS

WET WEIGHT

LESS MOISTURE 6.9 % 14,321

DRY WEIGHT 88743 @ $ 101.69 PER TON $ 4,512.14

DATE LOT RECEIVED 8/6/52

FREIGHT ADVANCED, @

FEDERAL TRANSPORTATION TAX

MOISTURE

SAMPLING Wilbur Smith 5.50

FROZEN ORE

UMPIRE

SWITCHING & FEDERAL TRANS. TAX 5.25

HAULING & TRANSPORTATION TAX 12.00 Stephonson Truck Line 589.08

ROYALTY 2/12 of 10% Harry E Watts, H.J.Watts, Mrs L.P.McCarthy 65.30

1/12 of 10% Royalty Mrs Fern Carnrick 32.65

1/4 of 10% Royalty Grace White 97.95

THIS LOT CONTAINS 730 OZS. OF SILVER

CORRECT

CHECKED

RATES, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE.

NET PROCEEDS $3,716.41

COLO-57

FORM C-247
5M—7-51—15843

AMERICAN SMELTING AND REFINING CO.

ARKANSAS VALLEY PLANT

LEADVILLE, COLO. Oct 8, 1952

BOUGHT OF John Lambertson (Star Mine) (962)

LOT NO. SMELTER 4437 MINE 2

ADDRESS

CLASS Crude

QUOTATIONS OF 9/29-10/4/52 SILVER .90 LEAD 16.00 SHIPPING POINT Almont, Colo. COPPER

	GOLD OUNCES	SILVER OUNCES	LEAD PER CENT	COPPER PER CENT	INSOLUBLE PER CENT	IRON PER CENT	MANGANESE PER CENT	LIME PER CENT	ZINC PER CENT	SULPHUR PER CENT
ALBATROSS A. S. & R. CO.	0.4	15.0	41.7		35.0	4.4			1.0	0.8
SHIPPER	0.02	16.0	42.2		34.7	3.2			0.0	0.9
UMPIRE										
SETTLEMENT ASSAY	0.01	15.8	41.95		34.85	2.8			0.5	0.85

CAR INITIAL	NUMBER	WEIGHT	FROZEN WT.
AV	208	110580	

WEIGHT OF LOT 110580

WEIGHT OF SACKS

WET WEIGHT

LESS MOISTURE 7.9 %

DRY WEIGHT 101844

DATE LOT RECEIVED 9/28/52

PAYMENTS PER TON		
GOLD	@	
SILVER 106.103	@	13.32
LEAD LESS 90% @2.776	PER UNIT	101.06
COPPER, LESS	@ PER UNIT	
GROSS VALUE OF METALS		114.38
LESS TOTAL DEDUCTIONS		7.56

DEDUCTIONS PER TON	
BASE CHARGE	9.750
INSOLUBLE	
ZINC	
SULPHUR	
EXCESS VALUE	
IRON CREDIT	
LIME CREDIT	
LEAD CREDIT	2.195
TOTAL DEDUCTIONS	7.555

@ $ 106.82 PER TON $5,439.49

FREIGHT ADVANCED @

FEDERAL TRANSPORTATION TAX

MOISTURE

SAMPLING

FROZEN ORE Silber Smith 5.50

SHIPPER

SMELTING & FEDERAL TRANS. TAX 5.25

HAULING & TRANSPORTATION TAX 12.00 Stephenson Truck Line 683.38

ROYALTY 2/12 of 10% Harry Watts, N.J. Watts, Mrs L. P. McCarthy 79.18

1/12 of 10% Mrs Fern Gnrick 39.59

1/4 of 10% Grace Smith 118.77

THIS LOT CONTAINS 805 OZS. OF SILVER

CORRECT

CHECKED JC

RATES, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE.

NET PROCEEDS $4,507.02

FORM C-247
5M—7-51—15843

AMERICAN SMELTING AND REFINING CO.
ARKANSAS VALLEY PLANT

LEADVILLE, COLO. Sept 26, 1951

BOUGHT OF John Lambertson (Star Mine) (962) LOT NO. SMELTER 1685 MINE 1

ADDRESS (COPY) CLASS Crude SHIPPING POINT Almont, Colo.

QUOTATIONS OF 9/10-15/51 SILVER .90160 LEAD 17.00 COPPER 24.075

ASSAYS	GOLD OZ. PER TON	SILVER OZ. PER TON	LEAD PER CENT	COPPER PER CENT	INSOL. PER CENT	IRON PER CENT	MANGANESE PER CENT	LIME PER CENT	ZINC PER CENT	SULPHUR PER CENT
A. S. & R. CO.	0.0	13.1	19.2		34.0	18.2			1.5	3.4
SHIPPER	0.02	13.3	19.5		33.1	18.2			1.2	2.4
UMPIRE										
SETTLEMENT ASSAY	0.01	13.2	19.35	0.0	33.55	18.2			1.35	2.9

CAR INITIAL	NUMBER	WEIGHT	FROZEN WT.
RG	46601	102260	

PAYMENTS PER TON		
GOLD	@	
SILVER Less 1oz.	@	10.99
LEAD LESS 5 90%	@2.986 PER UNIT	47.97
COPPER, LESS	@ PER UNIT	
GROSS VALUE OF METALS		58.96
LESS TOTAL DEDUCTIONS		9.06

DEDUCTIONS PER TON	
BASE CHARGE	9.000
INSOLUBLE	
ZINC	
SULPHUR	
EXCESS VALUE	
IRON CREDIT	
LIME CREDIT	
LEAD ~~[illegible]~~ DR	.065
TOTAL DEDUCTIONS	9.065

WEIGHT OF LOT
WEIGHT OF SACKS 102260
WET WEIGHT
LESS MOISTURE 10.7 %

DRY WEIGHT 91318 @ $ 49.90 PER TON $ 2,278.38

DATE LOT RECEIVED 9/9/51

FREIGHT ADVANCED @ 4.34	221.90
FEDERAL TRANSPORTATION TAX	6.66
MOISTURE	1.79
SAMPLING Beach & Co	5.11
FROZEN ORE Wilbar Smith	5.50
UMPIRE	
SWITCHING & FEDERAL TRANS. TAX	
HAULING & TRANSPORTATION TAX	
ROYALTY 2/12 of 10% H.S & H.J.Watts & Mrs L.P.McCarthy	34.14
Royalty 1/12 of 10% Mrs Fern Carnrick	17.07
1/4 of 10% Grace White	51.20

THIS LOT CONTAINS 603 OZS. OF SILVER

CORRECT WR

CHECKED JG

RATES, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE.

NET PROCEEDS 2,935.01

(W)

FORM C-247
5M—2-51—15843

AMERICAN SMELTING AND REFINING CO.

ARKANSAS VALLEY PLANT

LEADVILLE, COLO., Dec 14, 1951

BOUGHT OF John Lambertson (Starr Mine) (962)

LOT NO. { SMELTER 2366 / MINE 2

ADDRESS

CLASS Crude

SHIPPING POINT Alamo, Colo.

QUOTATIONS OF 11/26-12/1 51 SILVER .900 LEAD 19.00 COPPER

ASSAYS	GOLD OZ. PER TON	SILVER OZ. PER TON	LEAD PER CENT	COPPER PER CENT	INSOL. PER CENT	IRON PER CENT	MANGANESE PER CENT	LIME PER CENT	ZINC PER CENT	SULPHUR PER CENT
A. S. & R. CO.	0.0	22.2	18.7						2.2	2.0
SHIPPER	0.02	22.6	19.0						2.2	2.0
UMPIRE										
SETTLEMENT ASSAY	0.01	22.4	18.85	0.0	34.4	15.5			2.2	2.0

AR INITIAL	NUMBER	WEIGHT	FROZEN WT.
28	4437	87500	

GHT OF LOT 87500

GHT OF SACKS

WEIGHT

S MOISTURE 10.8 % 3906

DRY WEIGHT 78021

E LOT RECEIVED 11/30/51

PAYMENTS PER TON		
GOLD	@	
SILVER 95%	@	19.15
LEAD LESS 5%	@ .386 PER UNIT	52.87
COPPER, LESS	@ PER UNIT	
GROSS VALUE OF METALS		72.02
LESS TOTAL DEDUCTIONS		9.11

DEDUCTIONS PER TON	
BASE CHARGE	9.000
INSOLUBLE	
ZINC	
SULPHUR	
EXCESS VALUE	
IRON CREDIT	
LIME CREDIT	
LEAD CR OR DR	.115
TOTAL DEDUCTIONS	9.115

@ $ 62.91 PER TON $2,457.30

FREIGHT ADVANCED, @ 4.54	198.81
FEDERAL TRANSPORTATION TAX	5.96
MOISTURE	1.75
SAMPLING Hilmar Smith	5.50
FROZEN ORE Beach & Co	4.38
UMPIRE	
SWITCHING & FEDERAL TRANS. TAX	
ULING & TRANSPORTATION TAX	
VALTY 2/12 of 10% royalty Larry E Yates, H.J. Yates, Eva L. Lafferty	37.51
1/12 of 10% royalty Eva Fern Cartwright	18.76
1/4 of 10% royalty Grace Wills	56.27

S LOT CONTAINS 875 OZS. OF SILVER

IRECT

CKED

ATED, EXCEPT ON CONTRACTS, SUBJECT TO CHANGE WITHOUT NOTICE.

NET PROCEEDS $2,128.36

THE BROWN LABORATORY

2263 Broadway
Grand Junction, Colo. 81501 Area 303—242-4589

ASSAY PRICES

Effective January 1, 1967

U	**URANIUM**	
	Normal Type Ore	$5.00
	Lignite or Rare Earth Type Ore	7.00
V	**VANADIUM**	3.00
Al	Aluminum	5.00
Sb	Antimony	6.00
Ca	Calcium	3.00
C	Carbon (Proximate as for Coal)	3.00
Cl	Chlorine	5.00
Cr	Chromium	5.00
Co	Cobalt	7.00
Cu	Copper	4.00
Au	Gold (or Silver)	5.00
Au	Gold and Silver	5.00
Pb	Lead	4.00
Fe	Iron	4.00
Mg	Magnesium	5.00
Mn	Manganese	$ 5.00
Hg	Mercury	5.00
Mo	Molybdenum	5.00
Ni	Nickel	5.00
P	Phosphorus	5.00
REO	Rare Earth Oxides	5.00
Se	Selenium	5.00
Si	Silicon	5.00
Sp.Gr.	Specific Gravity	3.00
S	Sulfur	5.00
Th	Thorium	12.00
Sn	Tin	7.00
Ti	Titanium	7.00
W	Tungsten	7.00
Zn	Zinc	4.00
	Moisture	2.00
	Preparations Minimum	1.00

CONTROL Assay—Twice the above prices.
UMPIRE Assay—Five times the above prices.

MILE HIGH DRILLING COMPANY
16027 WEST 5TH AVENUE
GOLDEN, COLORADO 80401

AREA CODE 303—279-7813 2533

PAUL JUDD
R. H. JACKSON

February 16, 1968

Mr. John F. Peeso, Vice President
E. E. Lewis, Inc.
P. O. Box 1481
Grand Junction Colorado

Re: Your Letter of February 14, 1968
to Mr. Burt Hartmann, Terrametrics.

Dear Mr. Peeso:

Following are the prices for your items 1, 2, and 3:

1. $4.00 per foot

2. 7.00 for AX holes
6.00 for EX holes.

3. 7.00 per lineal foot
6.00 per lineal foot.

Very truly yours,

MILE HIGH DRILLING COMPANY

Paul Judd

Paul Judd, President

PJ/ad

NOTE: Mobilization of men and equipment was not included in the above prices so those costs as quoted in the Boyles Bros. quotes were applied to these prices.

John F Peeso

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
AND FABRICATION

Boyles Bros.
DRILLING COMPANY
CONTRACTORS-ENGINEERS-GEOLOGISTS
15865 West 5th Avenue
GOLDEN, COLORADO 80401
Phone (303) 279-7913

General Offices and Plant
1624 Pioneer Road P. O. Box 58
SALT LAKE CITY, UTAH 84110.
Phone 487-7595

BRANCH OFFICES
ARIZONA (PHOENIX)
CALIFORNIA (AUBURN)
COLORADO (GOLDEN)
NEVADA (SPARKS)
WASHINGTON (SPOKANE)
CHILE (SANTIAGO)
CABLE: BOYLESBROS
MEXICO, D.F.
PERU (LIMA)
CABLE: BOYLESCOP

February 28, 1968

E.E. Lewis, Inc.
P.O. Box 1481
Grand Junction, Colorado 81501

Attention: Mr. E.E. Lewis

Gentlemen:

We submit the following schedules of charges for your anticipated drilling program in the vicinity of the Starr Mine, near Gunnison, Colorado.

Schedule #1 - Rotary drilling - 1350 feet.

A.	Mobilization of men and equipment.	$ 350.00
B.	Drilling overburden, per linear foot.	$ 5.40
C.	Bedrock to 500 feet, 4¾" hole, per linear foot.	$ 5.15
D.	Cementing, setting and pulling casing and delays, per hour.	$ 16.50
E.	Lost casing, drill mud and additives, if required, will be charged at our cost, at job site.	
F.	Water truck, if required, will be charged at the rate of $225.00 per month and $.12 per mile, plus driver's wages and payroll taxes, if driver is required. We would anticipate using the drill helper as driver, as long as it does not interfere with the drilling operation.	
G.	Mud pits, drill sites and roads to be prepared and maintained at no cost to Boyles Bros.	

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRYING
SHAFT SINKING
TUNNEL DRIVING
MINE PLANT DESIGN
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ARIZONA (PHOENIX)
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WASHINGTON (SPOKANE)
CHILE (SANTIAGO)
CABLE: BOYLESBROS
MEXICO, D.F.
PERU (LIMA)
CABLE: BOYLESCOP

Schedule #2 - Core drilling underground, minimum of 490 linear feet.

		AX	EX
A.	Mobilization of equipment.		$ 250.00
B.	0 to 250 feet, per linear foot.	$7.05	$ 6.55
C.	Reaming, all sizes, per linear foot.		$ 3.45
D.	Cement time, plus cost of material, per hour.		$ 12.50
E.	Drill station of adequate size, timbered, if required, and ample air, water and nipping services to be furnished, at no cost to Boyles Bros.		
F.	Cardboard core boxes, to hold 10 feet of core, each.		$ 1.00
G.	Roads to be maintained, free of charge.		

These prices are subject to physical inspection of the property.

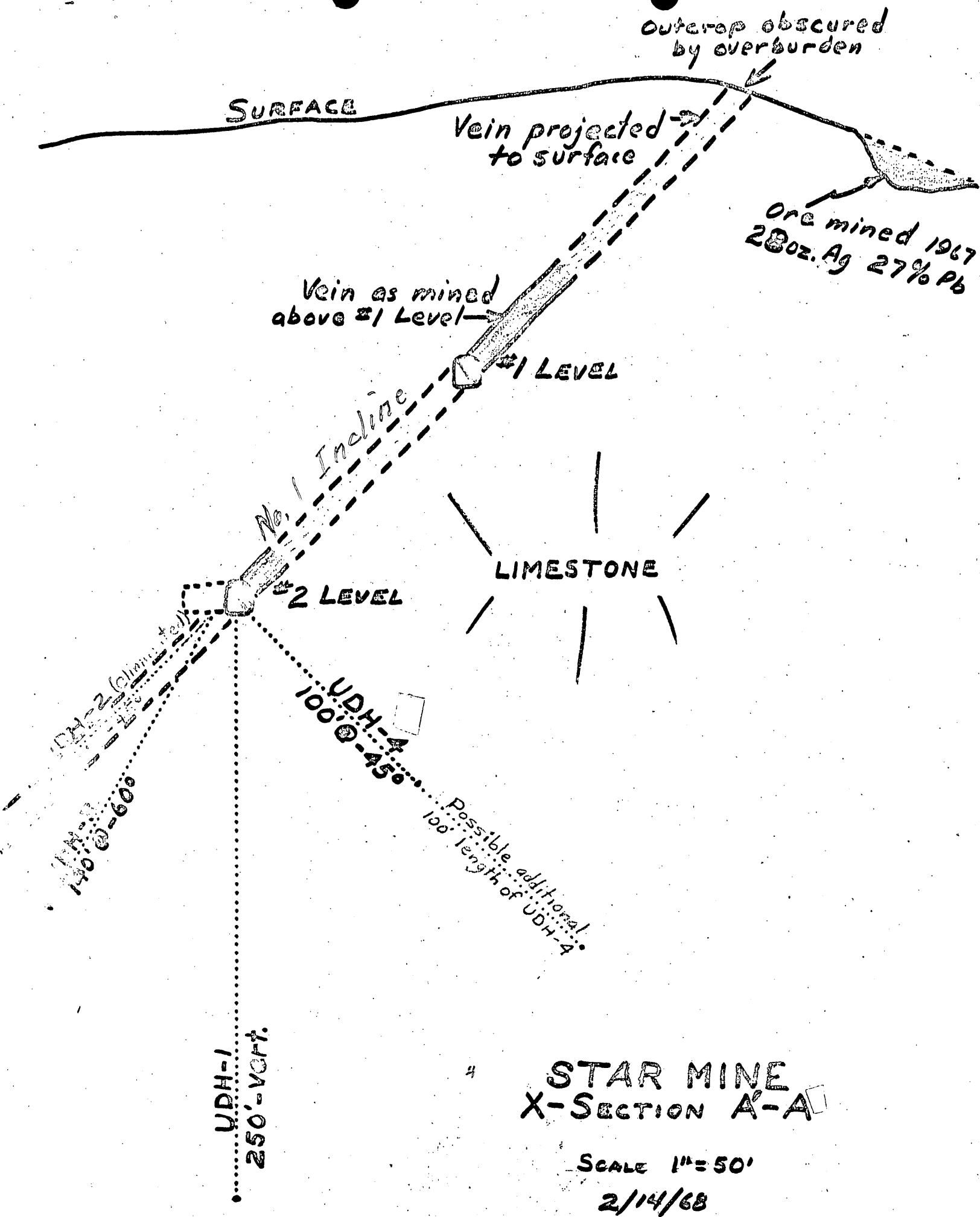
Thank you for your consideration of our company.

Very truly yours,

BOYLES BROS. DRILLING COMPANY

George E. Lensch

George E. Lensch, District Manager



STAR MINE
X-SECTION A'-A

SCALE 1" = 50'

2/14/68

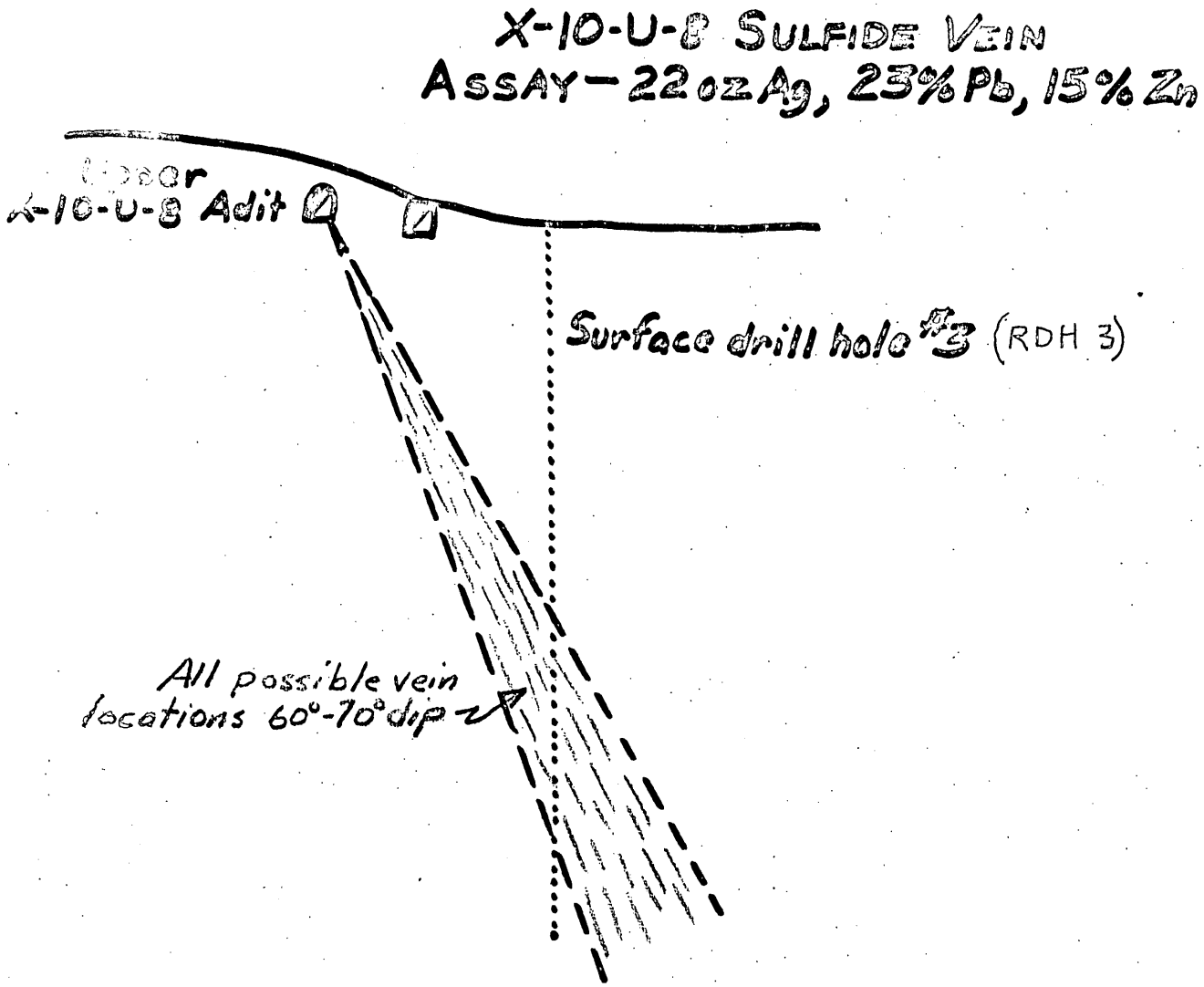


Figure 3. STAR MINE
X-SECTION B-B'

SCALE 1" = 50'
2/14/68

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225

Office of Minerals Exploration
Building 53 Room 203

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 17 1968

INITIALS	CODE
gla	130
[illegible]	120 m
[illegible]	110
	120 S.

June 14, 1968

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6662 (Silver)
E. E. Lewis, Inc.
Lambertson Property--Star Mine
Gunnison County, Colorado

Transmitted herewith is a Report of Examination on the subject property recommending a modified exploration program.

Enclosed also are Figures 1, 2 and 3 for inclusion in a contract if one is executed. Also enclosed is a copy of the applicant's amended application.

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosures

UNITED STATES

DEPARTMENT OF THE INTERIOR

STEWART L. UDALL, SECRETARY

U. S. GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION

OME-6662 (Silver)

E. E. Lewis, Inc.

Lambertson Property--Star Mine

Gunnison County, Colorado

by

J. William Hasler

Geologist

May 1968

Report of Exam.

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Introduction and summary---------- 3

The property---------- 4

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Applicant's revised exploration program---------- 13

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Illustrations

Figure 1. Claim map, Star Mine Group, Tin Cup Mining District, Gunnison County, Colorado

Figure 2. Claim Map Star Mine Group, Tin Cup Mining District, Gunnison County, Colorado showing proposed surface Stage 1 drilling.

Figure 3. Star Mine workings, Tin Cup Mining district, Gunnison Co., Colorado showing proposed underground drilling.

Introduction and summary

E. E. Lewis, Inc., Grand Junction, Colorado, applied to the Office of Minerals Exploration for financial assistance to explore for silver on the Lambertson Property (Star Mine) Gunnison County, Colorado. The application was submitted October 6, 1967, and it was referred to the field October 11, 1967 and was examined on November 2, 1967, by J. W. Hasler, accompanied by Mr. E. E. Lewis, Mr. John Peeso, and Mr. John Lambertson, owner of the Star Mine.

The applicant in a conference February 8, 1968 was requested to submit additional data, with map corrections and a revised program. This material was received in this office March 15, 1968. The applicant proposes a combined two-stage surface and underground exploration drilling program estimated to cost $262,614.00 to explore for silver.

It is concluded that there is a good chance of finding new and undiscovered reserves of silver at the Star Mine as a result of the proposed exploration program however and I recommend that a contract be executed to perform the alternate exploration program herein outlined, at an estimated cost of $65,818.00.

The Star Mine or Lambertson property is located in Tin Cup Mining District, Gunnison County, Colorado, and consists of ten patented, and seven unpatented lode claims that lie in Section 35, T. 12 S., R. 84 W., 6th principal Meridian. The property may be reached from Gunnison, Colorado, by traveling 11 miles northwest to Almont, Colorado on Colorado State highway 135, thence 26 miles on graveled road up Spring Creek to the Taylor River, thence

northwest along the river for 2.8 miles thence west-northwest via unimproved dirt road for 6 miles to the Star Mine.

The property

E. E. Lewis, Inc., controls the property by a lease and option agreement, a copy of which is in the original application sent to Washington. An oversize claim that lies across the northwest portion of the Star and Bull Domingo claim does not belong to the applicant and the applicant stated that the claim was probably never staked. Lien and subordination agreements have been executed and are on file in Washington with the original application. See Fig. 1.

Of the ten patented and seven unpatented claims mentioned above the following claims are requested to be excluded as follows: Iron, Iron Duke, Iron Duke #2, (U. S. Pat. Survey No. 19417) and Last Hope #2 (U. S. Pat. Survey No. 16136 are not contiguous with the others and are structurally separate. Bull Domingo, Bull Domingo #2 (U. S. Pat. Survey No. 16461 and Bull Domingo #3, (U. S. Pat. Survey No. 20493) are excluded because the applicant has not yet completed quiet title action on 1/4 interest. The applicant has a lease on 3/4 interest and has purchased the 1/4 interest, but title is not clear in the opinion of legal counsel.

Claims to be subordinated at the applicant's request are as follows:

Patented Claims	Survey No.
Black Warrior	14937
Falls	20493
Silver Lake	20493

Unpatented Claims	Book	Page No.
Star	152	140
Snowbank No. 2	139	310
Independent	152	141
Colorado	139	310
X-10-U-8	161	106
X-10-U-8 No. 2	161	106
Snowbank	158	363

Geology

The Star Mine is located in Star Basin at the base of the north side of North Italian Mountain. North Italian mountain is developed upon a monzonite stock of Teriary age that intrudes a series of Paleozoic sedimentary rock composed essentially of carbonate rocks. The Paleozoic rocks consist of the Sawatch quartzite, Manitou dolomite, Chaffee formation, Leadville limestone and the hermosa formation consisting of limestone, black shale, and quartzite. The Paleozoic rocks in the Star Basin appear in reverse sequence as they have been overthrust from the east.

The sedimentary rocks near the stock are so highly metamorphosed that correlation becomes difficult. A major thrust from the east; a tight, faulted, overturned anticline; and minor faults related to the intrusion of the granitic stock comprise the structural features of the Star Basin, in order of their importance. The geologic map, pl. 1, accompanying the application shows the relationship of structure to distribution of formations.

The character of mineralization and the type of ore deposit of the basin are distinctly different from that of Aspen, Gilman and Leadville. The ore deposits in the Leadville limestone at the Star Mine according to Garrett[1/] has resulted from the mineralization of

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1/ Garrett, H. L., Master's Thesis, Colorado School of Mines, 1950, Brief of "The Geology of Star Basin and Star Mine, Gunnison County, Colorado".

---

a collapse breccia. The breccia was apparently derived from the collapse of solution cavities, in part represented by pockets of sand overlying the breccia.

The sedimentary rocks in the Star Basin aggregate an estimated 1,105 feet in thickness and includes the following formations: Sawatch Quartzite, a white, vitreous fine- to coarse-grained cross-bedded quartzite. The basal portion is extremely coarse and in places is conglomeratic. The bedding is massive and irregular. The Sawatch quartzite lies unconformably on the precambrian complex and is Cambrian in age. The Sawatch quartzite has a thickness of approximately 165 feet in the Star Basin as measured by Garrett.

Manitou Dolomite, is a dense, blue-black dolomite for the most part, and has a thickness of approximately 380 feet in the Star Basin. The bedding is irregular, and the individual layers vary from less than an inch to as much as one foot in thickness. The contact of the Manitou dolomite of Ordovician age with the underlying Sawatch Quartz is sharp and well defined. Near the base of the Manitou formation there is a transition zone of thin-bedded dolomite, and buff colored, medium grained quartz on sandstone. This transition zone was placed in

the Manitou because of a high dolomitic content but may be the Peerless member of the Sawatch quartzite, as described by J. H. Johnson in his description on the Paleozoic stratigraphy of the Sawatch Range.

Chaffee Formation , of Devonian age, has an estimated total thickness in the Star Basin of some 76 feet and consists of the Dyer Dolomite and the Parting Quartzite members which have a thickness of 62 and 14 feet respectively. The Chaffee Formation in the Star Basin as described by Garrett[1/] consists of interbedded dense, finely crystalline, buff to red dolomite, and buff to red calcareous shales. Locally this formation is called the "Buckskin" dolomite. The contact between the Chaffee Formation and the underlying Manitou Formation is unconformable, and is well defined.

Leadville Formation of Mississippian age attains an estimated total thickness in the Star Basin of 336 feet. The Leadville limestone is the host rock for ore in the Star Basin and is essentially a pure limestone. In areal extent the Leadville Formation covers most of the basin. The contact between the basal sandstone or quartzite member of the Leadville Formation with the underlying Chaffee Formation is sharp and well defined, but is also thought to represent an unconformity. The basal quartzite member is white to grayish white, vitreous, and fine grained, and is massively bedded and irregular. This member is about 14 feet in thickness. The major portion of the Leadville Formation consists of a blue-black fine to medium grained crystalline limestone. The insoluble material, making up less than one percent of the rock, is highly carbonaceous and is disseminated throughout

the rock in a fine state, which probably accounts for the blue-black color. The limestone is massive, and where bedding is well developed, it is quite regular. Near the intrusive the limestone is white, however, in other places near the intrusive the limestone retains its normal color.

In the middle of the formation, about 175 feet above the base, there is a zone of solution cavities which are filled with unconsolidated sand, and under the filled solution cavities is a layer of limestone and breccia.

Hermosa Formation of Pennsylvanian age, consists of three members that total an estimated thickness in the Star Basin of 140 feet. The three members are: at the base a quartzite overlain by a fairly thick carbonaceous shale member, and at the top a limestone member containing intercalated shales. This formation crops out on the ridge trending east of North Italian Mountain.

The medium grained massive blue-gray quartzite of the Hermosa Formation rests unconformably upon the underlying Leadville Formation. The gap between Hot Springs Mountain and Molly Mountain is developed upon the shales of the Hermosa Formation.

The limestone member forms the summit of North Italian Mountain and along the ridge that leads to Hot Spring Mountain. The limestone is highly silicified near the intrusive. Skarn minerals and finely disseminated pyrite occur where the intrusive is in contact with the limestone. At several places this member of the Hermosa Formation occurs as roof pendants in the intrusive.

Igneous Rocks. The basement complex of the region is a biotite granite

that is predominantly porphyritic in texture, but which ranges from porphyritic to aplitic. The biotite granite frequently contains inclusions of gneiss that apparently have no particular orientation. Biotite gneiss, pegmatite dikes, and stringers form the Precambrian complex at Mount Tilton, north of North Italian Mountain. This is the only place where gneissic rocks are found in Star Basin.

North Italian Mountain Intrusive. It is known that the North Italian Mountain Intrusive is post-Pennsylvanian as it intrudes the Hermosa Formation of Pennsylvanian age. The intrusive is probably related to the Laramide Revolution that gave rise to the Rocky Mountains, and this would make the intrusive Early Tertiary in age. Cross and Shannon classified the intrusive as a monzonite, some more recent work (Garrett) indicates that the intrusive is a quartz monzonite. From the stock-like intrusive of North Italian Mountain there are three quartz latitic dikes that radiate into Star Basin.

STRUCTURE

The geologic structure of Star Basin has been complicated due to overthrusting of the Paleozoic sediments from the east and the intrusion of the quartz monzonite stock of North Italian Mountain. Plate 1 of original application (in pocket) shows the relationship.

FAULTS

The study of the Paleozoic rocks by Garrett shows that the sequence of sedimentary rocks is reversed, that the older beds overlie the younger beds, and that the contact of these beds with the quartz monzonite along North Italian Creek is neither an intrusive nor sedimentary contact but is a fault contact. In figure 18 which is totally useless the letter

"1" of original application represents the back slope of American Flag Mountain southeast of Star Basin, which is the dip slope of the Leadville Limestone. The formations at American Flag Mountain are in their normal sequence, while those on the ridge in the foreground are overturned. Also, the Leadville Limestone on American Flag Mountain is displaced westward by thrust faulting relative to exposures of the same rock shown as (c) on the foreground ridge in figure 18. The thrust fault in Star Basin dips gently to the southeast and strikes northeast. The thrust fault crops out along North Italian Creek and apparently crops out between American Flag Mountain and the ridge bearing east from North Italian Mountain. In the gap (numberal "2" on figure 18) between Molly Mountain and Hot Springs Mountain an offset was noted in light-colored beds from a study of aerial photographs. A field check showed the light-colored beds to be shales, and the offset suggests a reverse fault that developed simultaneously with the overturned anticlinal roll (fig. 19). This fault would appear to strike northwest and dip to the east (plate 1, pocket). on the north-trending ridge between North Italian Mountain and Mt. Tilton the entire stratigraphic section has a vertical dip, and the strike changes more than 90° from that on the ridge extending east from North Italian Mountain. This abrupt change of strike and dip is probably due to the intrusion of the quartz monzonite stock. A number of northeast-striking normal faults occur at the point of maximum change of strike and dip.

FOLDS

There is a "M" shaped outcrop of buff colored shales of the Hermosa Formation that occurs in the Leadville Limestone (figure 19). The creek that flows by the "Clara L. Mine" seems to be the dividing

line between easterly dipping beds on the east and westerly dipping beds on the west (pl. 1 in pocket). The field evidence just cited established an overturned anticlinal fold in the basin whose axial trace parallels the drainage previously mentioned (pl. 1, in pocket). This anticlinal fold is overturned to the west and is related to the thrust fault in the basin. A normal fault was also found in conjunction with this anticlinal fold.

Numerous other folds, both anticlinal and synclinal were developed near the monzonite stock. Some of these folds are shown on the geologic cross section (pl. 11) which was drawn through the ridge that extends from North Italian Mountain.

History and Production

The original discovery in Star Basin was made about 1878 on what is now the Bull Domingo claim (pl. 3 in pocket). The rich lead carbonate ore which carried appreciable amounts of silver, was transported by mule tain down to Glacier, approximately five miles south of Crested Butte, to be hauled by wagon to Leadville, Colorado. Charles Hubbert located the Star, X-10-U-8, and Snow Bank claims about 1880. Thereafter, for a short time, the Star claim was mined by a French company, which sank the Star shaft and incline. The Star mine was then returned to Mr. Hubbert, who developed and mined the first level and part of the second level. The American Smelting and Refining Company further developed the second level and sank the incline to the third level. In the early 1920's John Lambertson leased the Star claim and reopened the first level from which he mined. The complete production of the Star Mine is not

available; however, Table 1 accompanying the applicant's application shows production figures from the Star Mine for the period 1927-1928.

Production from the Star Mine as submitted by the applicant shows as follows:

Ore shipped to the American Smelting and Refining Co. smelter at Leadville, Colorado during the years 1951, 1952, 1954, and 1955 totaled some 405 tons that had a gross value of $37,861.58 and averaged $90.97 per ton. Silver values averaged 17.0 oz. per ton, and lead averaged 36.0% Pb per ton.

Shipments made by John Lambertson during 1927 - 1928 averaged 26.72 oz. Ag per ton, and 40.9% Pb per ton, and showed a total value of $8,224.07 and averaged about $47.53 per ton. The applicant has a stockpile of 193 tons that averages 21.0 oz. Ag per ton, and 25.8% Pb per ton, for a gross value at current prices amounting to $118.44 per ton. This ore stockpile would gross some $11,014.92.

From the available production data submitted by the applicant average silver values range from 15.17 oz. to 26.72 oz. per ton, and average lead values range from 7.8% to 40.9 percent. Silver values range from 1/3 to 1/2 as much as lead values with the exception of the dump material sampled by the applicant.

Applicant's Revised Exploration Program

The applicant's revised exploration program is based upon the strength and amount of mineralization exposed in the present mine workings which justify projecting the ore zone at depth. There is reason to believe that the proposed zone of exploration contains considerable unoxidized ore and therefore will be more amenable to concentration by milling. Remnants of sulphide ore are found in the upper adit on the X-10-U-8 No. 2 claim and in the deeper bench of the Independent Mine.

Accessible mine workings have explored a breccia zone in the Leadville limestone without much penetration of the bedding above and below the breccia. The applicant thinks there is a good possibility of discovering ore in the bedding along the thrust fault zone which presumably underlies the mine area and he suggests that the exploration program serve a threefold purpose: 1 to explore for additional lead-silver ore bodies within a known ore zone of collapse breccia about 100 feet thick along the bedding near the center of the Leadville Limestone; 2 to explore for ore bodies in breccia along a thrust fault presumed to underlie the Leadville Limestone at an unknown depth; and 3 to explore for ore bodies in limestone in the hanging wall and footwall of the known ore zone. This threefold objective is outlined in two stages of exploration, revised as follows:

why?

Prospecting

Prospecting surface ore not P.W.

Stage 1 consists of surface rotary drilling, diamond drilling, and minor repair and rehabilitation of workings to permit underground diamond drilling. Stage 2 proposes drifting or crosscutting to favorable areas disclosed by stage 1, followed by additional drilling as indicated by structure and mineralization revealed in exploration headings, and it is outlined and quoted as follows: (See applicant's revised program, attached).

Stage 1 Exploration

"O.M.E. Plate I, a composite plan assay map of the Independent-Star Mine show proposed underground diamond drilling. Cross-section A-A' shows the correlation of present underground workings to the open cut where E. E. Lewis, Inc., mined 250 tons of high grade silver-lead ore during August and September 1967. A composite sample of this ore assayed 27.5 oz. silver and 26.5% lead per ton." where is it?

"The distance between the Star Vein projected to the surface and the open cut indicates the vein to be much wider than previously mined or a parallel vein structure exists. Underground drill holes UDH 1, 3 and 4 are essential to explore for these possibilities."

"UDH-1 is planned to be drilled 250' to cut the thrust fault projected under the mine area. Since the thrust is presumed to be pre-mineral in age (ore solutions are probably related to the younger porphyritic monzonite which intrudes the overturned Paleozoic sediments) the sheared rocks in the thrust zone should make an excellent host for ore deposition." not illustrated

"UDH-4 should be continued past 100' if favorable formation exists at that depth. An additional 100' of drilling should be included for this eventuality."

"Mr. William Hasler, O.M.E. Field Officer of Region III, believes information from UDH-2 would be negligible due to its position in the vein. We concur and agree to eliminate UDH-2 from the program."

"Underground drilling is planned for this area because swampy ground makes surface drill locations unfeasible.."

"Stage 2 drilling will be dependent upon results of Stage 1 in this area."

"In order to do this drilling it will be necessary to repair the Independent shaft and set a better hoist to handle the drill, rods, and supplies. The main incline will require cleaning and installation of air and water pipe lines. Plastic hoses can be used on the second level."

"Surface rotary drilling is proposed to explore areas not in close proximity to the accessible mine workings. Holes proposed in Stage 1 are shown on O.M.E. Plate 2."

"Rotary hole 1 will explore the main breccia ore zone northwest of mine workings and down the rake of the known ore bodies. Surface drilling is necessary here because the 3rd level and the northwest end of the 2nd level are inaccessible so it is less expensive to prospect the zone by drilling from the surface. This hole will be stopped after penetrating the breccia zone--it will not test the underlying limestone unless it cuts bedded mineralization. If so, it should be run an additional 100 feet."

"Rotary hole 2 is designed to prospect bedded as well as breccia ore zones west of the main orebody in the Independent mine and along the Domingo ore trend." not illustrated

Rotary "Hole #3 is proposed to define structure and bedded ore found in the upper X-10-U-8 workings. Ore stockpiled on the X-10-U-8 dumps assays 68.86 oz. silver on "Red Dump" and 14.34 oz. silver on the upper dump. It will also explore at depth an 18" wide, north-dipping sulfide vein that is exposed in the upper X-10-U-8. This vein assays 22 oz. silver, 23% lead and 15% zinc. Cross section B-B' shows relationship of this vein and hole #3." not illus.

-where is it- Rec'd in 1968

But not the bedded ore.

"A porphyritic granite contact is exposed in the road cut below the Black Warrior Shaft. Projection of this contact down dip would indicate that the X-10-U-8 adit would have cut the granite but conversations with John Lambertson, who drove the adit, reveals this was not so. The adit is now caved and inspection impossible, hence rotary drill hole #3. If favorable limestone is encountered at the elevation of the X-10-U-8 adit, rehabilitation of the adit and underground drilling is warranted These underground holes are included in Stage 1 to utilize the drilling equipment while it is on the property, thus saving additional mobilization expense."

"If rotary hole 3 shows granite at the adit level, holes proposed from the end of the adit should be run from the surface and inclined down at suitable angles (depending on the elevation of the granite contact) to prospect the X-10-U-8 ore zone as part of Stage 1 drilling."

"Rotary hole 4 will prospect the bedding about midway between the Bull Domingo Shaft and main ore zone of the Independent Shaft. Cross-section A-A' shows the possibility of ore in the footwall limestone."

"Rotary hole 5 is situated along the projection of the main Independent-Star ore zone southerly from the French Stope. This hole will determine if the main breccia ore zone continues beyond the French Stope."

"X-10-U-8 drilling recommended consists of 3 diamond drill holes, 200 feet deep, to prospect the area under ore mined from the upper adits. Here, the bedding dips 20 to 30 degrees south or southwest but steep north and northeast faults may have dragged the beds so that local

attitudes are unreliable. Since the formations are overturned, the favorable Leadville underlies the Manitou dolomite exposed in surface drilling because there is an unknown thickness of Manitou dolomite plus 62 feet of Chaffee formation to penetrate before encountering the favorable Leadville limestone. If the granite has not been faulted into the position where the Leadville is expected, this area should be very favorable for ore deposition."

Stage 2 Exploration

"Where mineralization is found by Stage 1 rotary drilling, additional offset holes should be run to extend our knowledge of the ore zone. These holes will be deeper than Stage 1 holes, thus a budget should be provided for not less than an additional 2,000 feet of rotary drilling in Stage 2.

"Also, if drilling from the 2nd level in the Independent mine is favorable, the main incline should be mucked out and a crosscut run to a point under the shaft and a raise extended to the shaft thus making vertical hoisting from the 3rd level possible."

"None."

"Starting the project depends on weather since elevations at the mine are about 11,500 feet. Work could probably be commenced in April or May, 1968."

Recommended Exploration

The applicant feels that the area between the large open cut workings and the vein should be explored for a possible additional vein that may lie in the footwall, or at least another similar breccia zone. Their proposed hole UDH No. 1 will not adequately test this area as adequately as UDH-4 would do. There is no justification for drilling

UDH No. 1 to just explore the Leadville limestone and the thrust or flat fault as projected unless the hole tests the area of the intersection of the ore zone with the flat or thrust fault. My proposal would be to drill UDH No. 4 from its present proposed location. See Figure 3. A vertical hole some 80 feet northeastward along the 200 level to a depth of 200 feet would more adequately explore the zone of intersection. This hole is designated as UGH3. Drill Hole No. 4 or any others that may be drilled from this vicinity must be drilled from an underground location due to swampy or "boggy" conditions on the surface. The three more or less circularly contoured areas shown on the applicant's claim map (1" = 200') are shallow lakes and/or bogs, consequently drill rigs or any heavy equipment cannot be used in those areas. This limits the favorable areas on the surface that are best suited for exploring the vein at depth.

UDH No. 2 has been deleted upon my recommendation as it was designed to follow or test within the vein itself. This will of course accomplish little except to havethe knowledge that one would be drilling in the vein itself. This will of course accomplish little except to have the knowledge that one would be drilling in the vein itself.

Surface rotary drilling hole numbers 1 and 2 (Figure 2) appear to be warranted as proposed hole No. 1 is designed to explore the ore zone and the "Flat Fault." One or both are mineralized. This is a good target. Surface hole No. 2 is to test along the strike of the ore zone west of known ore bodies, this also is a good target and should be drilled.

During the field examination of the available workings on the X-10-U-8 claim showed a 1.5 foot vein had been exposed that assayed 22.02 oz. Ag., 22.8% Pb and 15.0% Zn, a three foot sample of oxide material assayed 8.32 oz. Ag., 0.23% Pb and 0.50% Zn.

Surface drill hole No. 3 work should be completed by the applicant in this area, and the other holes from the X-10-U-8 workings should probably be completed in Stage I.

Surface drill hole No. 4 should probably be drilled as some ore has been mined in the footwall at the surface.

Drill hole No. 5 is designed to test the ore zone south of the known ore bodies and is a valid target.

Item	Amount	Unit Cost	Total	Mine Area
Shaft Repair	170 ft.	$50.00	$8500.00	Independent
Main Incline	110 ft.	40.00	4400.00	1st to 2nd level
Set Hoist	1	600.00	600.00	Surface
			$13500.00	
		Underground Drilling (AX-core)		
UDH 1 (3)	200 ft.	7.50*	1500.00	Independent
UDH 3 (2)	140 ft.	7.50*	1050.00	Independent
UDH 1 (4)	200 ft.	7.50*	1500.00	Independent
			$4050.00	
		Surface Rotary Drilling		
Hole 1	400 ft.	4.25*	$1700.00	Independent
Hole 2	500 ft.	4.25*	2125.00	Independent
Hole 3	200 ft.	4.25*	850.00	X-10-U-8
Hole 4	150 ft.	4.25*	638.00	Projection of Bull Domingo Star
Hole 5	100 ft.	4.25*	425.00	Star
Drill Sites	5	100.00	500.00	Preparation
			$6238.00	

X-10-U-8 Area

Item	Amount	Unit Cost	Total	Mine Area
Opening Adit	296 ft.	25.00	7400.00	X-10-U-8
D-Hole 1	200 ft.	7.50*	1500.00	X-10-U-8
D-Hole 2	200 ft.	7.50*	1500.00	X-10-U-8
D-Hole 3	200 ft.	7.50*	1500.00	X-10-U-8
			11900.00	
			Total:	$35,688.00

*Note: Mobilization of men and equipment included in these figures.

7. (b) Personal services

Stage 1	Total Cost
(Supervision, engineering, and project manager full time for 1 man @ $850. per month for 6 months	$5,100.00
Geological consultant @ $75.00/day) 5 days/month for 6 months)	2,250.00
Per Diem consultant 30 days @ $16.00	480.00
Hoistman at Independent Shaft) $30/day for 60 working days)	1800.00
Stage I Total	9,630.00

7. (c) Operating Supplies

	Total Cost
Fuel, for compressor, 30 gal., diesel per day, 120 days, Stage 1, at $.28 delivered	$1,008.00
Oil, greases, other minor supplies, est. $5.00/day	600.00
Sample sacks, 100 at $.15 each	15.00
Cement, mud, other drilling accessories	500.00
Core boxes, for diamond drill core 150 @ $1.00	150.00

Operating Supplies (Cont.)	Total Cost
Mine timber and stulls, est. 10 M @ $125.00	$1,250.00
Powder, caps and fuse, est. in contract	0.00
Office supplies, communication	
(Radio, telephone) $50/month	300.00
Stage I total	$3,823.00

7. (d) Stage I

Four-Wheel Drive vehicle rental, 6 months @ $100.	$ 600.00
Consultants transportation, 6 mo 350 mi/mo. @$0.12	252.00
Hoist rental $200 per month, 6 month	1,200.00
Comp. rental 600 cfm rotary, 6 mo. $800.00/month	4,800.00
Underground tugger hoist on incline, 6 months at $50.00	300.00
16# Mine rail and accessories (X-10-U-8)	
Purchase 2 tons @ $250	500.00
Pipe 4" (Compressed air line of fittings) 400' @ $1.00/ft	400.00
Pipe 1" (water line) 400' @ $.25/ft.	100.00
Blower, rent @ $60/mo., 6 months	360.00
Vent tubing 15", purchase 400' @ $2/ft	800.00
Stage 1, Total	$9,312.00
7. (g) Repair & maintenance of equipment $200/mo., 6 mo.	1,200.00
Assaying 300 each: Au-Ag combined @$5.00, Pb @ $4.00	
Zn @ $4.00 Cu @ $4.00 for combined sample cost of $17.00	5,100.00
Accountant, part time @ $50/month, 6 months	300.00
Ins., taxes, etc. - 15% supervisor's salary	765.00
Stage 1 Total	$7,365.00

Summary

Drilling and shaft repair	$35,688.00
Personal Services	9,630.00
Operating supplies (7c)	3,823.00
Operating supplies (7d)	9,312.00
Operating supplies(7g)	7,365.00
Total estimated cost Stage 1	$65,818.00

Conclusions and recommendations

Although reported, and available data on production from the Star Mine throughout a rather long history of mining is small the grade of the ore shipped and or stockpiled indicates that it is of a high enough grade to be profitable. The chances that a considerable tonnage of silver may be discovered at depth through a moderate exploration program as outlined and suggested herein. Some 2,000 tons of material mined, including dump material ranges in value from $47.53 to as much as $118.44 per ton. The gross value of all the reported tonnage shipped from the Star Mine totals some $114,116.50. There is agood chance that an expenditure of $65,818.00 to explore the property as outlined will prove profitable. A stage two program could be considered but not until Stage 1 has been completed.

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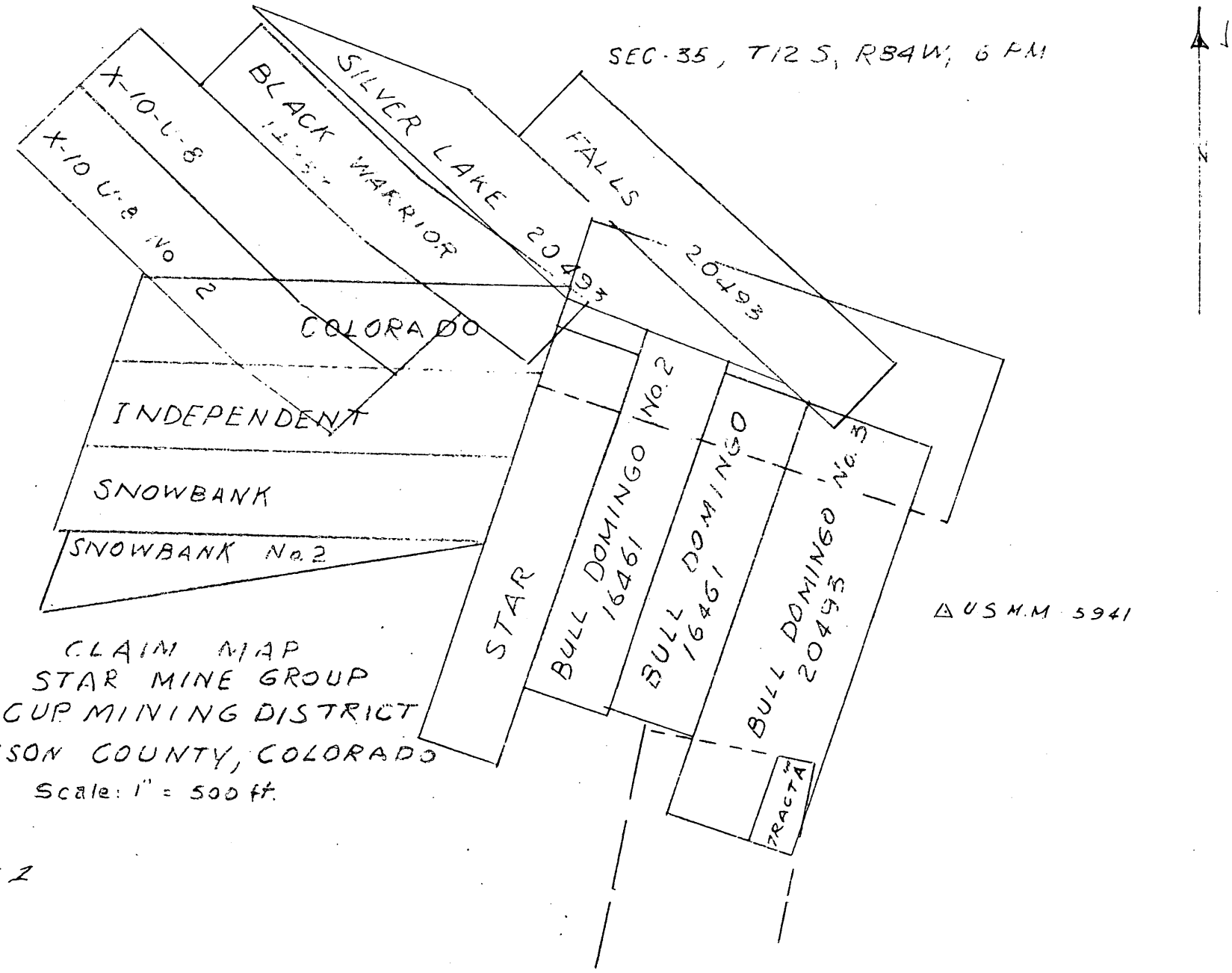
U.S. GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION
DOCKET 6662.

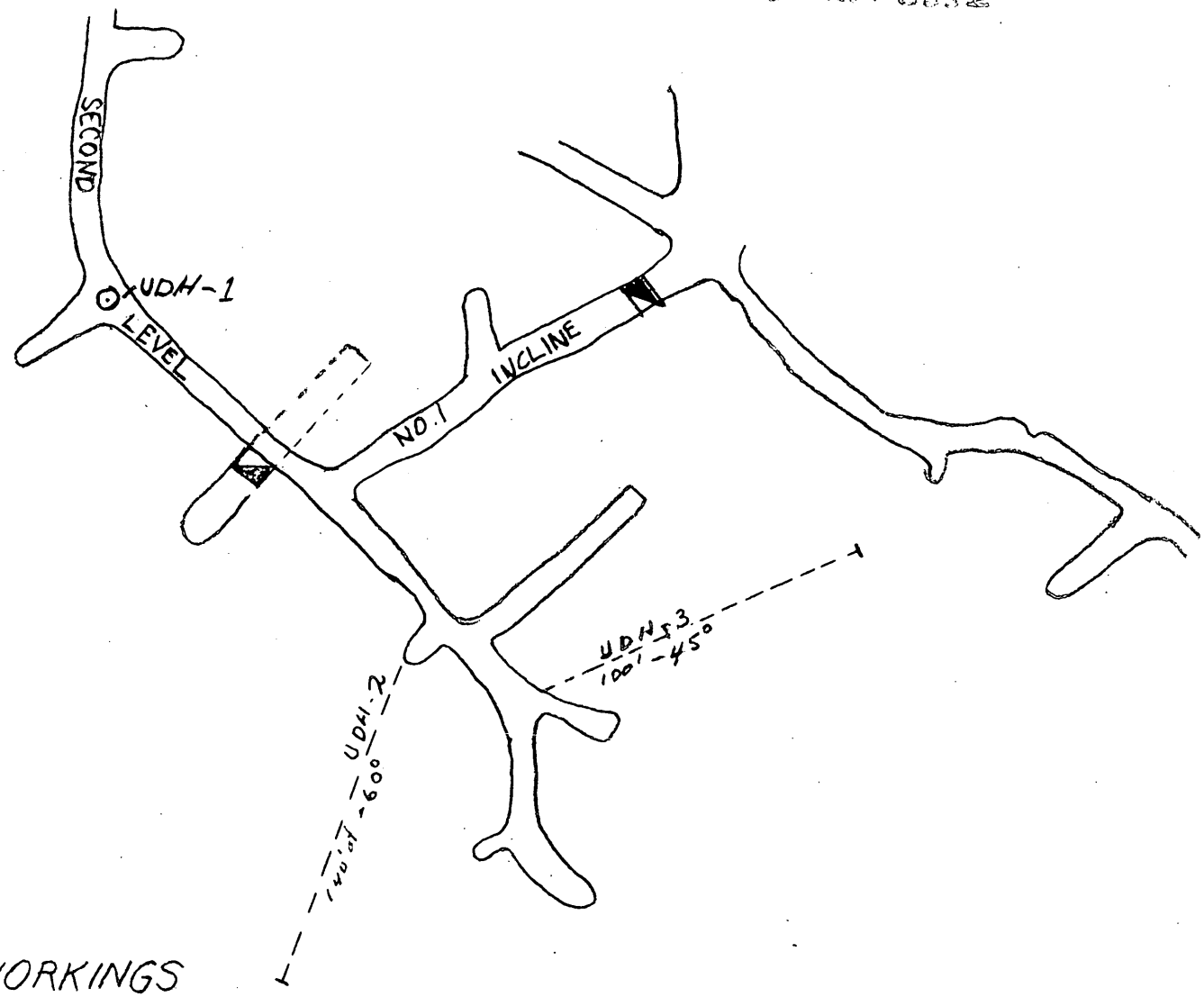


CLAIM MAP
STAR MINE GROUP
TIN CUP MINING DISTRICT
GUNNISON COUNTY, COLORADO
Scale: 1" = 500 ft.

FIGURE 2

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICE OF MINERALS EXPLORATION
DOCKET 6652



STAR MINE WORKINGS

TIN CUP MINING DISTRICT

GUNNISON CO., COLORADO

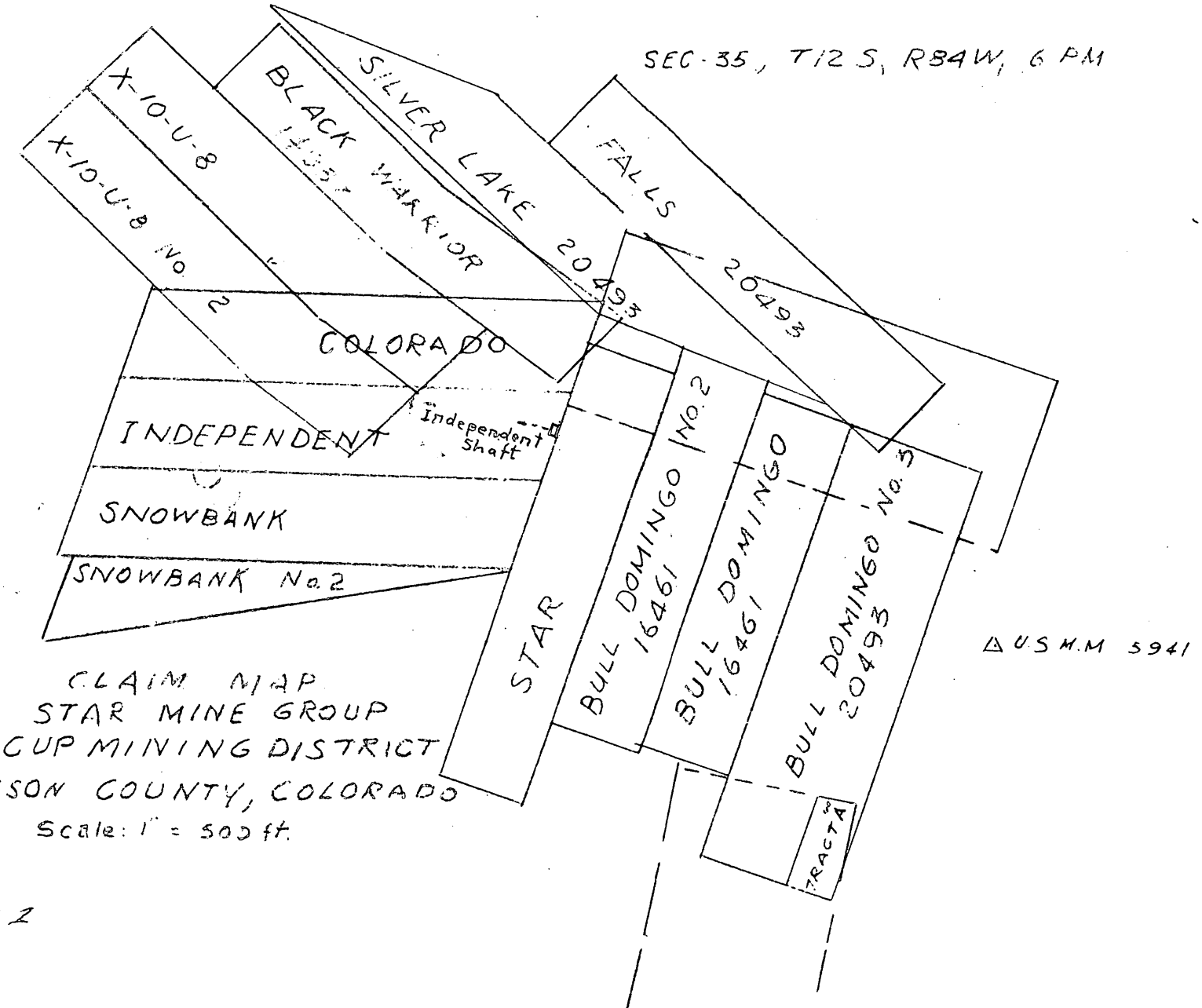
SHOWING PROPOSED UNDERGROUND DRILLING

SCALE 1 in = 30 ft.

FIGURE 3

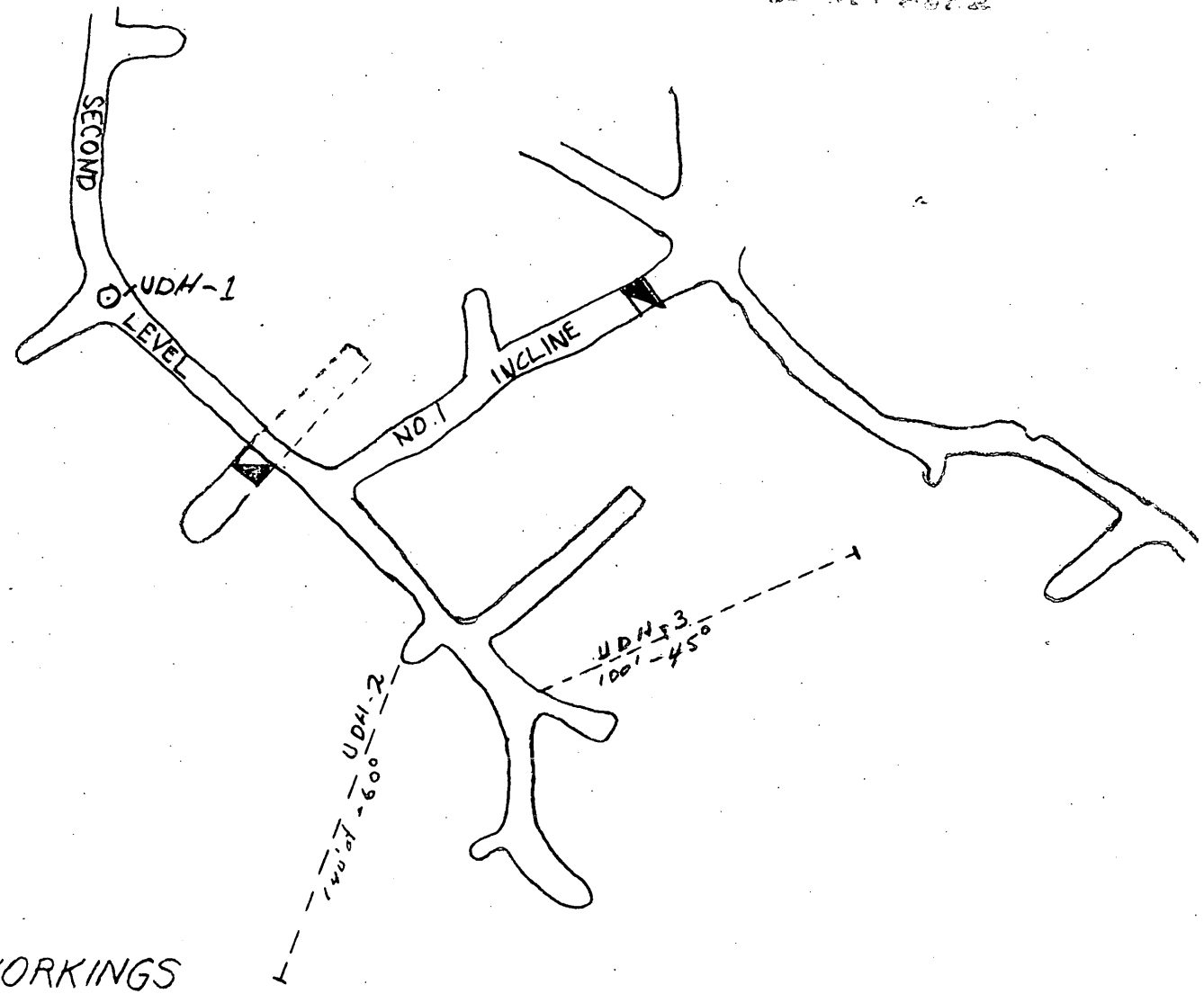
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION
DOCKET 6662.



CLAIM MAP
STAR MINE GROUP
TIN CUP MINING DISTRICT
GUNNISON COUNTY, COLORADO
Scale: 1" = 500 ft.

FIGURE 2



STAR MINE WORKINGS

TIN CUP MINING DISTRICT

GUNNISON. CO., COLORADO

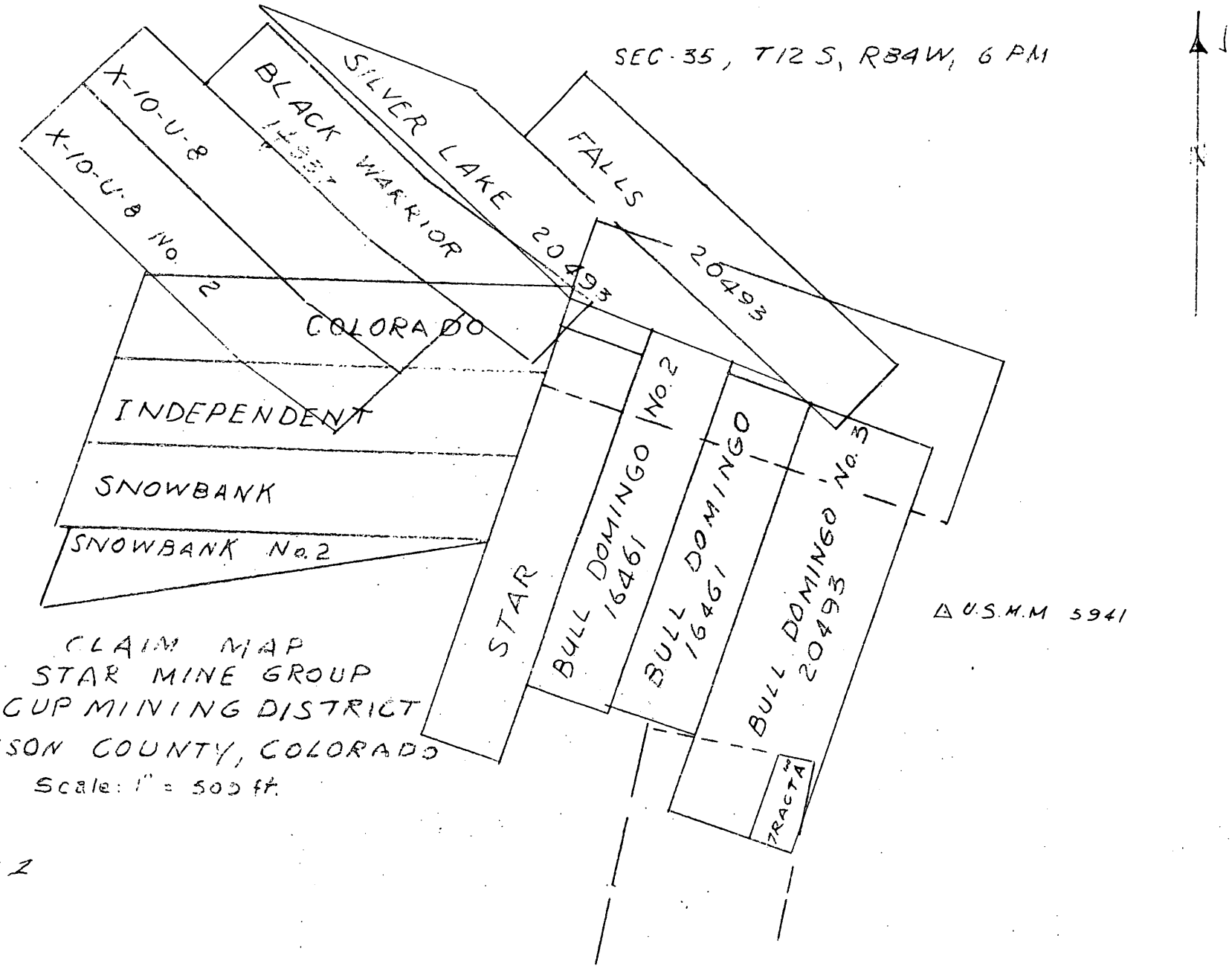
SHOWING PROPOSED UNDERGROUND DRILLING

SCALE 1 in = 30 ft.

FIGURE 3

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

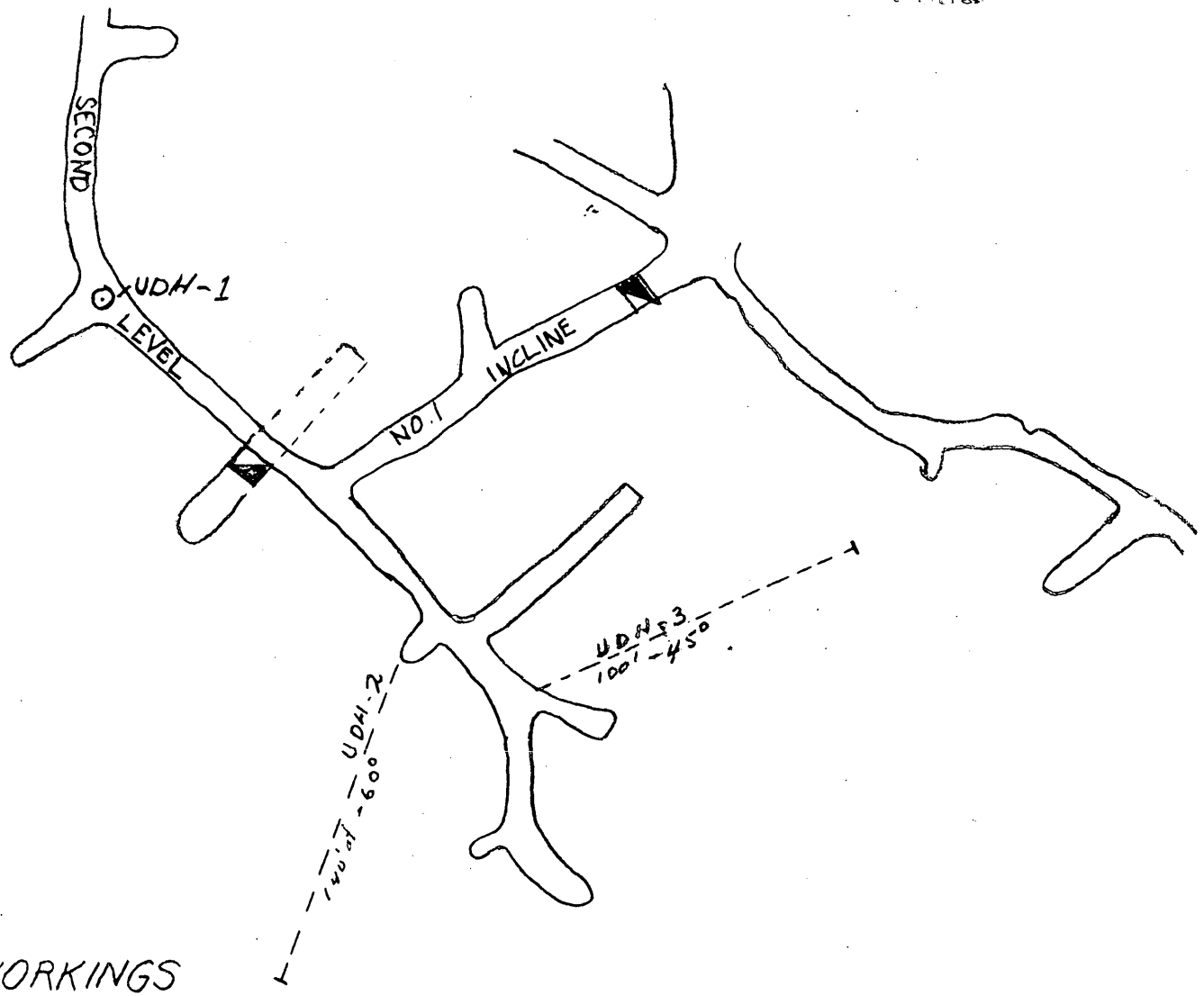
OFFICE OF MINERAL EXPLORATION
DOCKET 6662.



CLAIM MAP
STAR MINE GROUP
TIN CUP MINING DISTRICT
GUNNISON COUNTY, COLORADO
Scale: 1" = 500 ft.

FIGURE 2

OFFICE OF MINERALS EXPLORATION
SECRET AREA



STAR MINE WORKINGS

TIN CUP MINING DISTRICT

GUNNISON CO., COLORADO

SHOWING PROPOSED UNDERGROUND DRILLING

SCALE 1 in = 30 ft.

FIGURE 3

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OFFICE OF [illegible] INFORMATION
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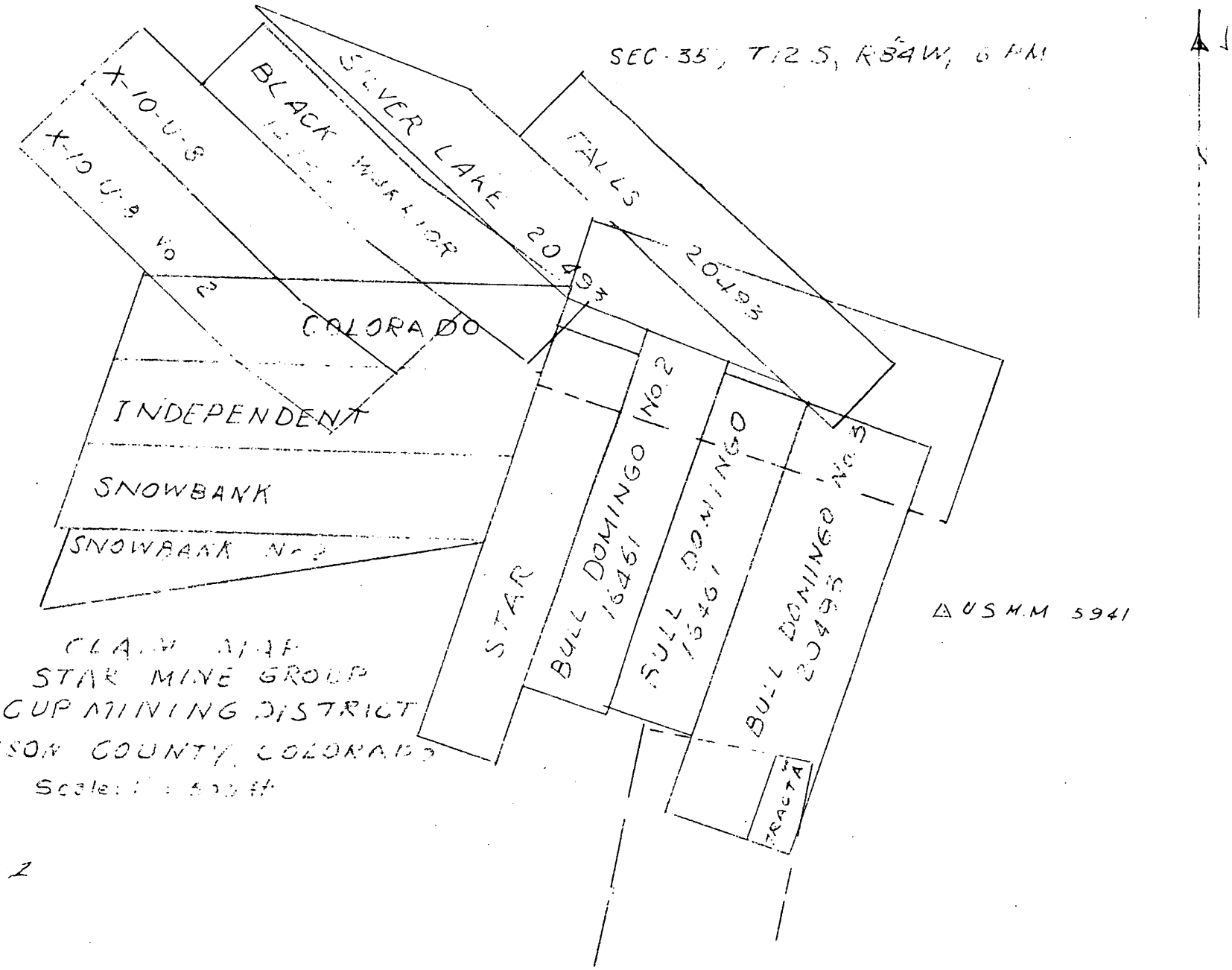
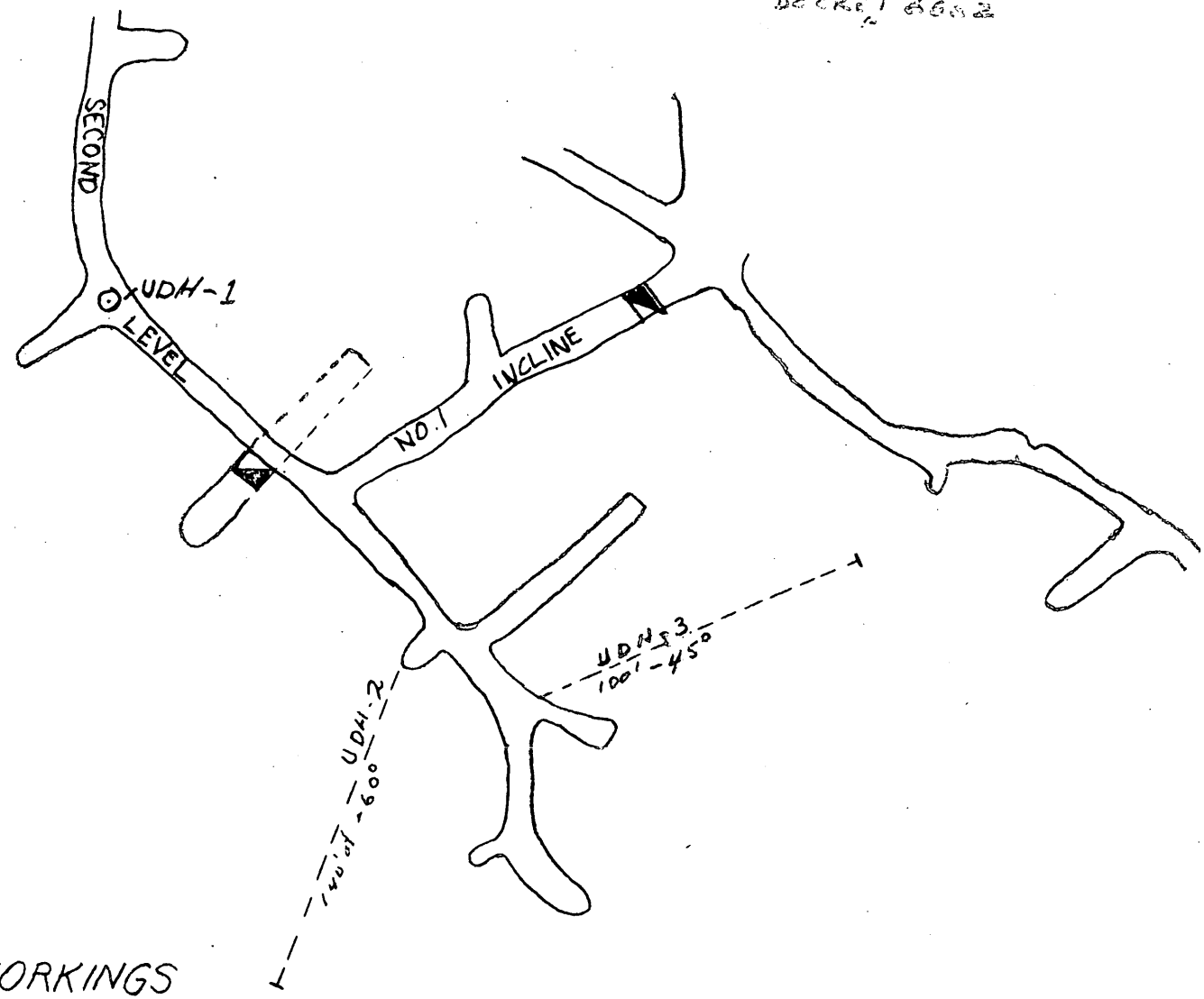


FIGURE 2

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES SURVEY

OFFICE OF MINERALS EXPLORATION
DECRET 6602



STAR MINE WORKINGS

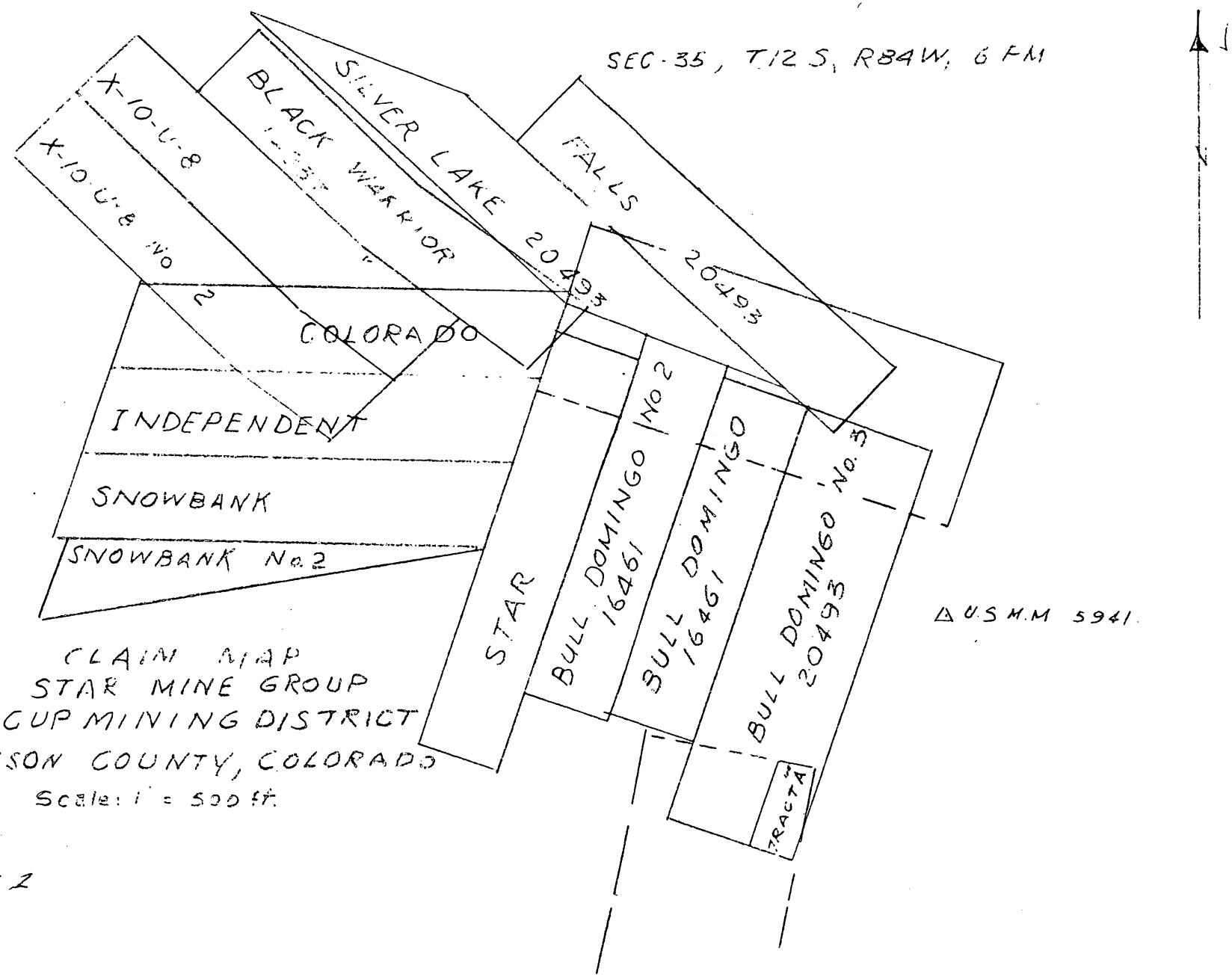
TIN CUP MINING DISTRICT

GUNNISON CO., COLORADO

SHOWING PROPOSED UNDERGROUND DRILLING

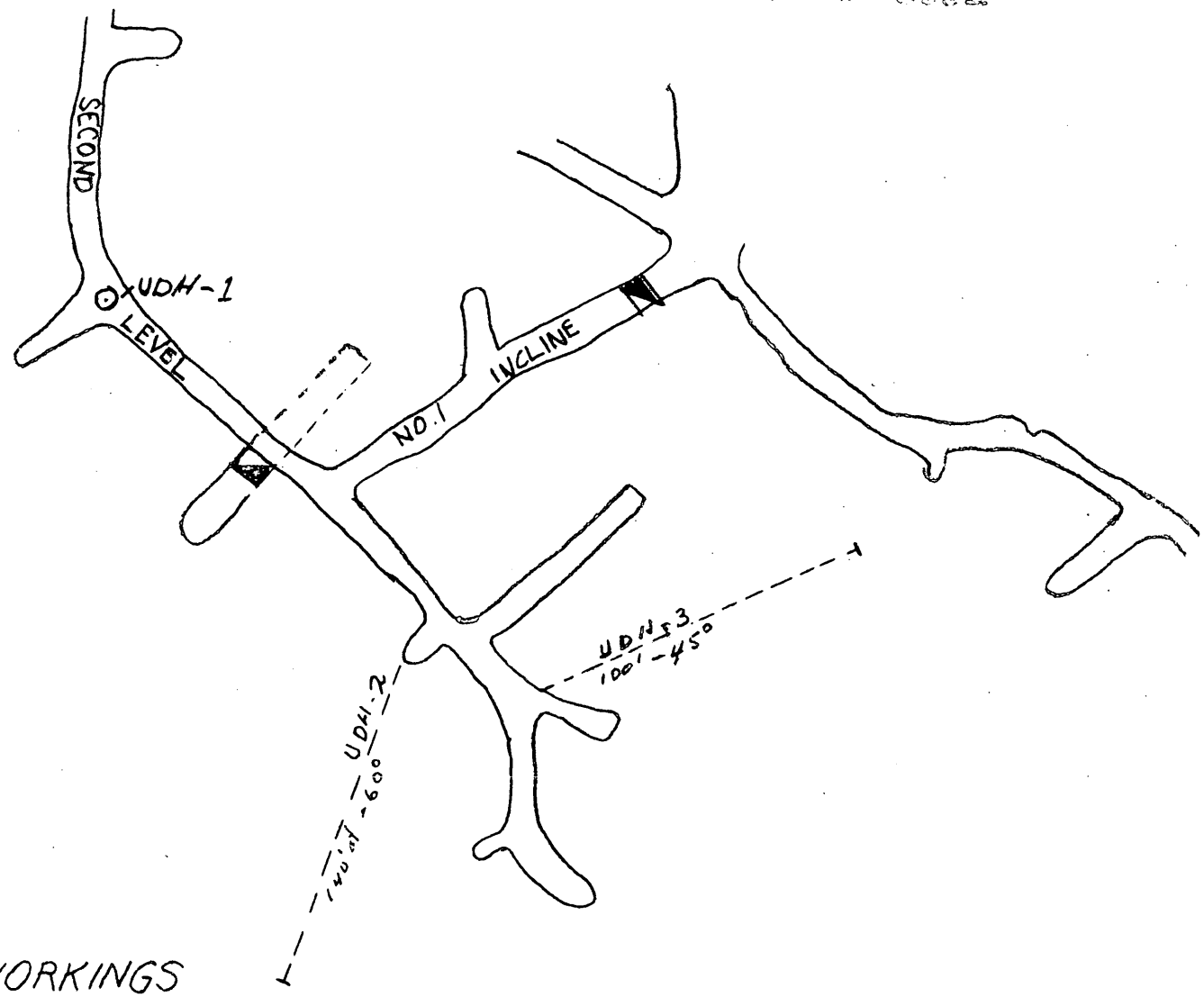
SCALE 1 in = 30 ft.

FIGURE 3



CLAIM MAP
STAR MINE GROUP
TIN CUP MINING DISTRICT
GUNNISON COUNTY, COLORADO
Scale: 1" = 500 ft.

FIGURE 2



STAR MINE WORKINGS

TIN CUP MINING DISTRICT

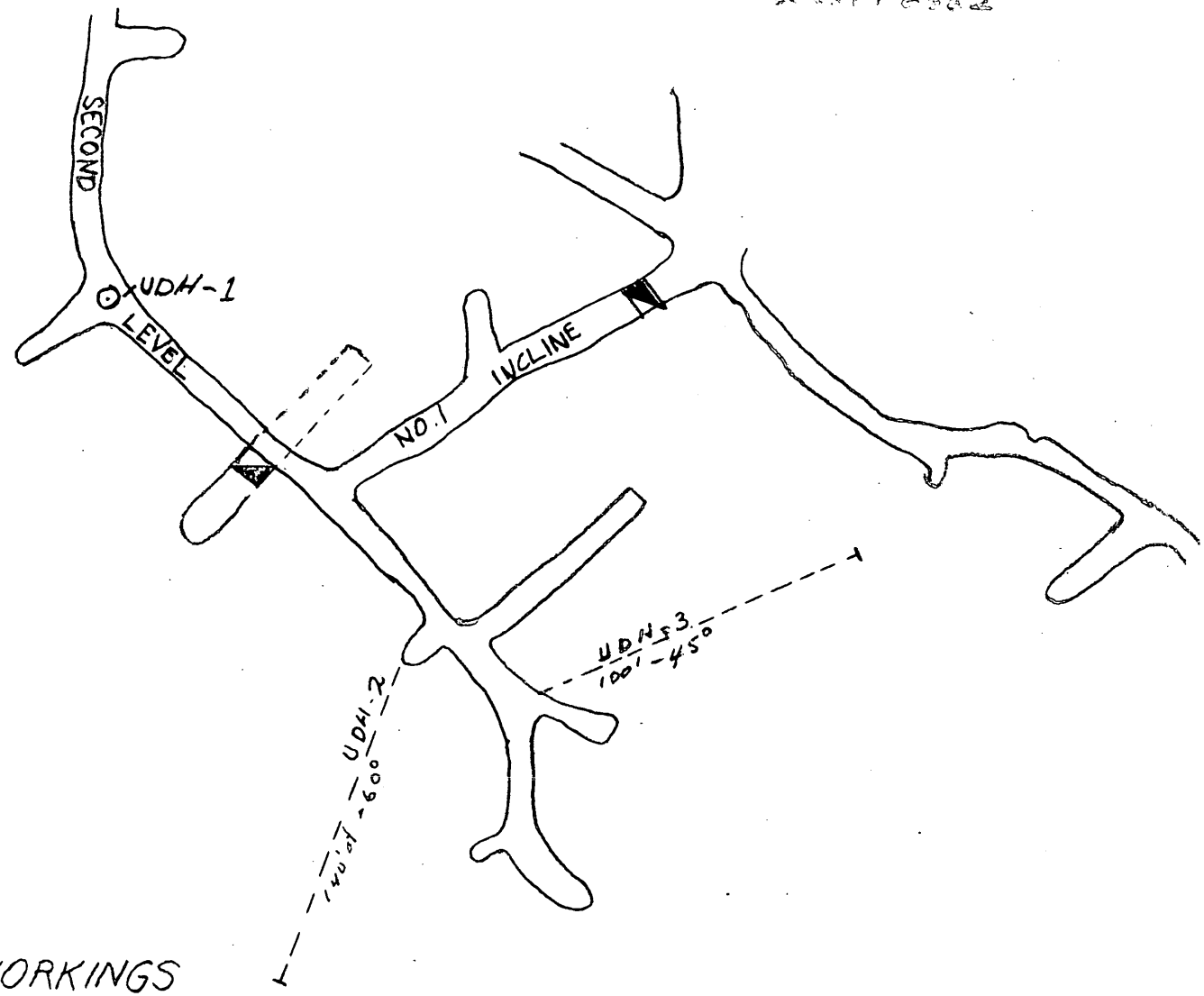
GUNNISON. CO., COLORADO

SHOWING PROPOSED UNDERGROUND DRILLING

SCALE 1 in = 30 ft.

FIGURE 3

OFFICE OF MINERALS EXPLORATION
DENVER



STAR MINE WORKINGS

TIN CUP MINING DISTRICT

GUNNISON CO., COLORADO

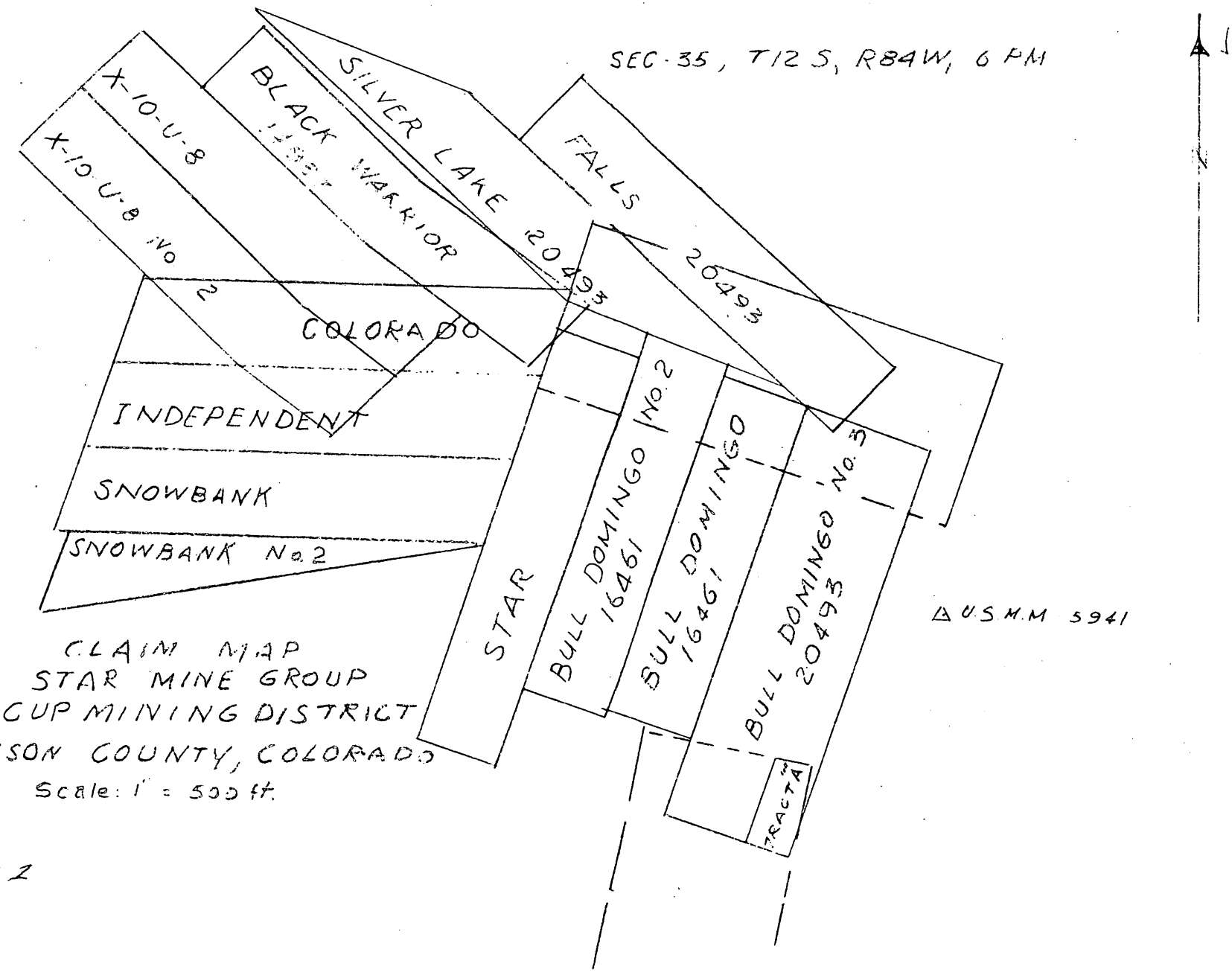
SHOWING PROPOSED UNDERGROUND DRILLING

SCALE 1 in = 30 ft.

FIGURE 3

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OFFICE OF MINERAL EXPLORATION
DOCKET 6662.



CLAIM MAP
STAR MINE GROUP
TIN CUP MINING DISTRICT
GUNNISON COUNTY, COLORADO
Scale: 1" = 500 ft.

FIGURE 1

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November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

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~~Betty Hall~~ ~~423 / G5A~~	STOP	~~CONSERVATION DIVISION~~ ~~ATTN. OF: MR. VARAN~~ ~~3216 GSA BLDG.~~	STOP
ACCOUNTS 5408 Interior	STOP	24	STOP
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	STOP	Mr. BENNETT Rm. 22 AT	STOP
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Denver, Colorado

January 22, 1968

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JAN 29 1968

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bel	120
	140
	120

Mr. J. William Hasler
Field Officer, Region III
Office of Minerals Exploration
Building 53, Room 203
Federal Center
Denver, Colorado 80225

Dear ~~Mr. Hasler~~: Bill

Regarding your letter of January 18, 1968.

I will be in Denver February 8th. If it would be convenient, I would like to meet with you about 10:30 a.m. February 8th.

Very truly yours,

E. E. LEWIS, INC.

Elbert E. Lewis, Pres.

EEL/dg

Office of Minerals Exploration
Building 53 Room 203

January 18, 1968

Mr. E. E. Lewis
P. O. Box 1481
Grand Junction, Colorado 81501

Subject: OME-6662 (Silver)
E. E. Lewis, Inc.
Lambertson Property
Gunnison County, Colorado

Dear Mr. Lewis:

I would like to discuss with you a modified program concerning your application for financial assistance in minerals exploration on the above-stated subject.

Will you please contact our office and let us know when it is convenient for you to come over, and we will set up an appointment. Our office address is:

Mr. J. William Hasler, Field Officer, Region III
Office of Minerals Exploration--U. S. Geological Survey
Denver Federal Center--Building 53 -- Room 203
Denver, Colorado 80225

Our telephone number is 233-3611, extensions 8598 or 8731.

Sincerely yours,

J. William Hasler
mc

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

cc: Chief, OME
OME-6662
OME chron
M r. Hasler

[illegible] COURTS STREET

TELEPHONE [illegible]

CHARLES O. PARKER & CO.

CHEMISTS • ASSAYERS • ENGINEERS

DENVER, COLORADO 80205

Folio [illegible]

Date Nov. 18, 1967.

Office of [illegible] Exploration,
United States Geological Survey,
Denver Federal Center,
Denver, Colorado, 80225

We hereby Certify, that the samples assayed for you gave the following results

Mark	DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT WET	LEAD PER CENT	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	[illegible] PER TON
[illegible]	Union vein ------		5.39	0.02	[illegible]	0.12			
[illegible]	E. E. Lewis		4.60		[illegible]	[illegible]			
[illegible]	E. E. Lewis		2.18		[illegible]	[illegible]			

Gold at _____ per ounce Copper at _____ per unit

Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $ 13.50

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

1/56/8/PKd.

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(2/63)

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Date	Surname	Code
10/20/67	Smith	120
"	On leave	120
		110
		220
		120M

OCT 20 1967

AIRMAIL

E. K. Lewis, Inc.
P. O. Box 1481
Grand Junction, Colorado 81501

Re: OME-6662 (Silver)
E. K. Lewis, Inc.
Star Mine
Gunnison County, Colorado

Gentlemen:

Your application for financial assistance in exploring the referenced mine has been reviewed by the Washington Office and referred to Mr. J. William Hasler, Field Officer, Region III, Office of Minerals Exploration, U. S. Geological Survey, Room 2204, Building 25, Denver Federal Center, Denver, Colorado 80225.

Mr. Hasler will notify you if additional information is needed.

Sincerely yours,

FRANK H. JOHNSON

Frank H. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Reading File
Mr. Smith
~~130~~ R-III

RSmith/bsl 10-20-67

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(2/63)

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10/20/67	[illegible]	120
	on leave	120
		110
		220
		120M

OCT 20 1967

AIRMAIL

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6662 (Silver)
E. E. Lewis, Inc.
Star Mine
Gunnison County, Colorado

The application is referred to Region III for review, a field examination if necessary, and for recommendations.

Our preliminary review indicates that exploration may be warranted, but the program is too ambitious for the small size of ore bodies that might be found.

The purpose of the project proposed by the Applicant is threefold: to explore for additional lead-silver ore bodies within a known ore zone of collapse breccia about 100 feet thick along the bedding near the center of the Leadville limestone; to explore for ore bodies in breccia along a thrust fault presumed to underly the Leadville limestone at an unknown depth; and to prospect for ore bodies in the limestone hanging wall and footwall of the known ore zone.

The Applicant proposes a two-stage program of rehabilitation, surface and underground drilling, crosscutting, raising, shaft sinking, and drifting.

Our comments on specific items of the Applicant's proposal are as follows (see exploration costs):

Stage I

Shaft repair including hoist installation: This rehabilitation is to provide access for underground drilling of four holes from the 2nd level. Holes 2, 3, and 4 may be warranted, but Hole 1 appears to be prospecting (see below). If the cost of Holes 2, 3, and 4 including rehabilitation is less than equivalent holes from the surface, or if the targets cannot be tested from the surface, then the rehabilitation may be warranted.

Surface rotary drilling: Hole 1 is to test the ore zone and the "Flat fault" (OME Plate 1). Since both are mineralized, this is a good target. Hole 2 is to test along the strike of the ore zone west of known ore bodies and also has a valid target. Hole 3 is prospecting for geology: preliminary geological work should be done by the Applicant. Hole 4 is prospecting unless some evidence is furnished that the footwall limestone beds are mineralized. (If they are not mineralized at the surface, why expect ore at depth?) Hole 5 is to test the ore zone south of known ore bodies and has a valid target.

Underground drilling: Hole 1 is prospecting--there is no reason given to expect ore in the footwall and no target except possibly the thrust fault, depth unknown. We would expect better results from testing the thrust fault where it cuts the ore zone. Holes 2, 3, and 4 may or may not be in the ore zone--thetargets are not clear from the information at hand. If they are only for the purpose of testing the limestone walls of the ore zone, why are they spotted in this particular location?

X-10-U-8 Area: Opening the adit and drilling Holes 1, 2, and 3 are all contingent upon Rotary Hole 5 which may not be allowable. This work appears to be premature, but if RH5 is warranted in Stage I then underground work might be appropriate in Stage II.

Stage II

Rotary drilling: Offset holes to further test ore bodies found in Stage I holes is good exploration, but the purpose of drilling deeper should be explained.

Underground work is contingent on drilling in Stage I, and is excessively costly compared with the size ore bodies suggested by the production (1927-1928) of $4,112.00 per year. Doubtless, a less costly plan could be devised after Stage I results are available. You may wish to consider deferring the planning of Stage II. From present data, it appears that this work is development and unlikely to be approved.

In summary, it appears to us that a single stage surface drilling project might be warranted. If successful, funds for a second stage could be added by amendment. If you recommend a contract, vertical sections showing all proposed holes (such as OME Plate I) will be helpful. Also, if you recommend a contract, please obtain an explanation and justification for omitting the Bull Domingo claims from the project area.

Costs in general appear to be reasonable except for rentals which exceed purchase prices, and for assaying. Supervisor's expenses may not be allowable and we question the need for a full-time hoistman.

Frank E. Johnson

cc: Director's Reading File
Division file
Economic Geology File
OME Docket
OME Reading File
Mr. Smith
130

RMSmith/gla 10-20-67

October 13, 1967

E. E. Lewis, Inc.
P. O. Box 1481
Grand Junction, Colorado 81501

Subject: OME - 6662

Gentlemen:

Your application for exploration assistance, dated October 2, 1967, submitted to our office at Denver, Colorado, has been assigned Docket No. OME-6662.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to Region III

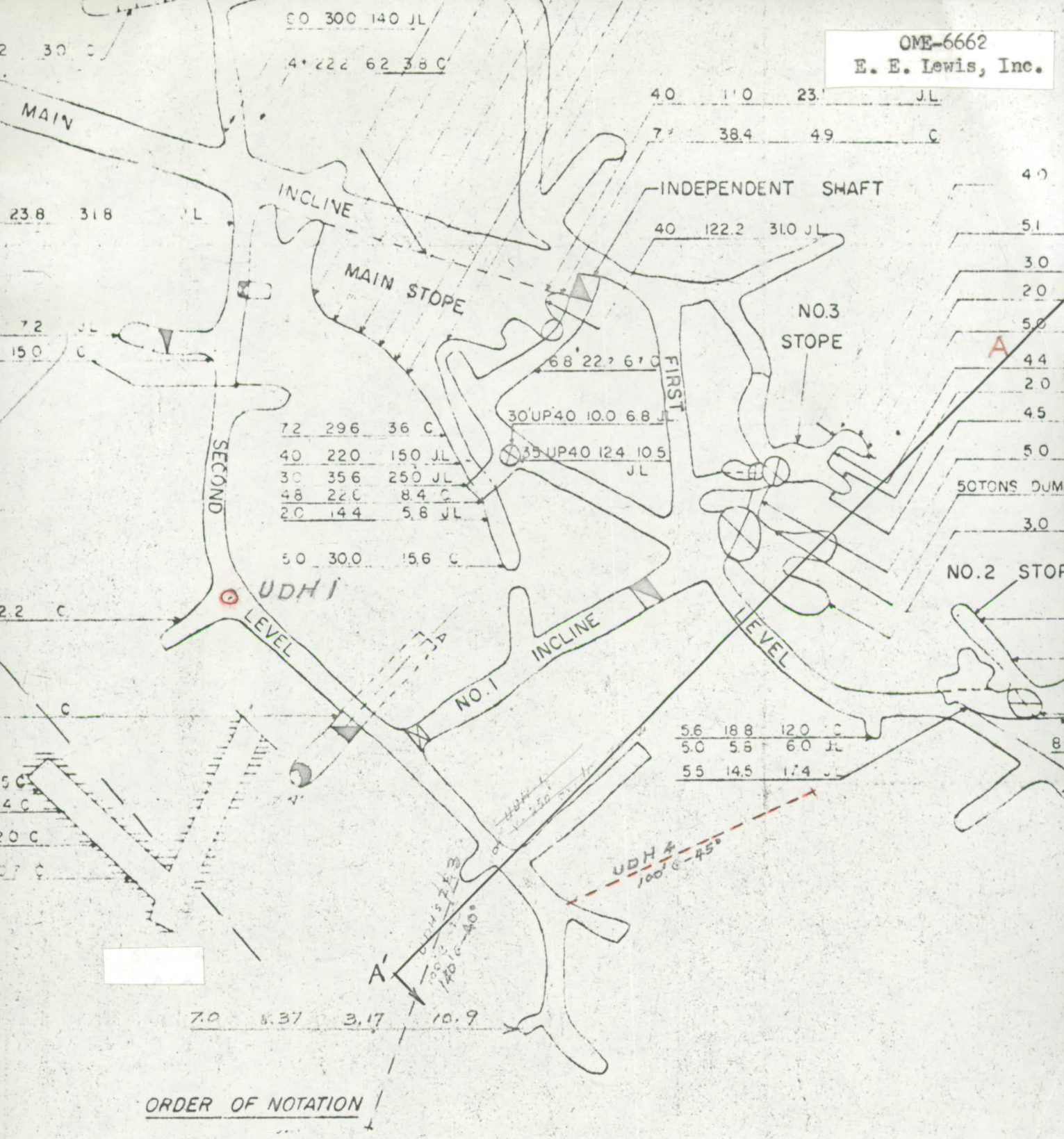


Figure 4. STAR MINE WORKINGS
Tin Cup Mining District
Proposed Underground Drilling
Scale: 1 in. = 30 ft.

OME-6662
E. E. LEWIS, INC.

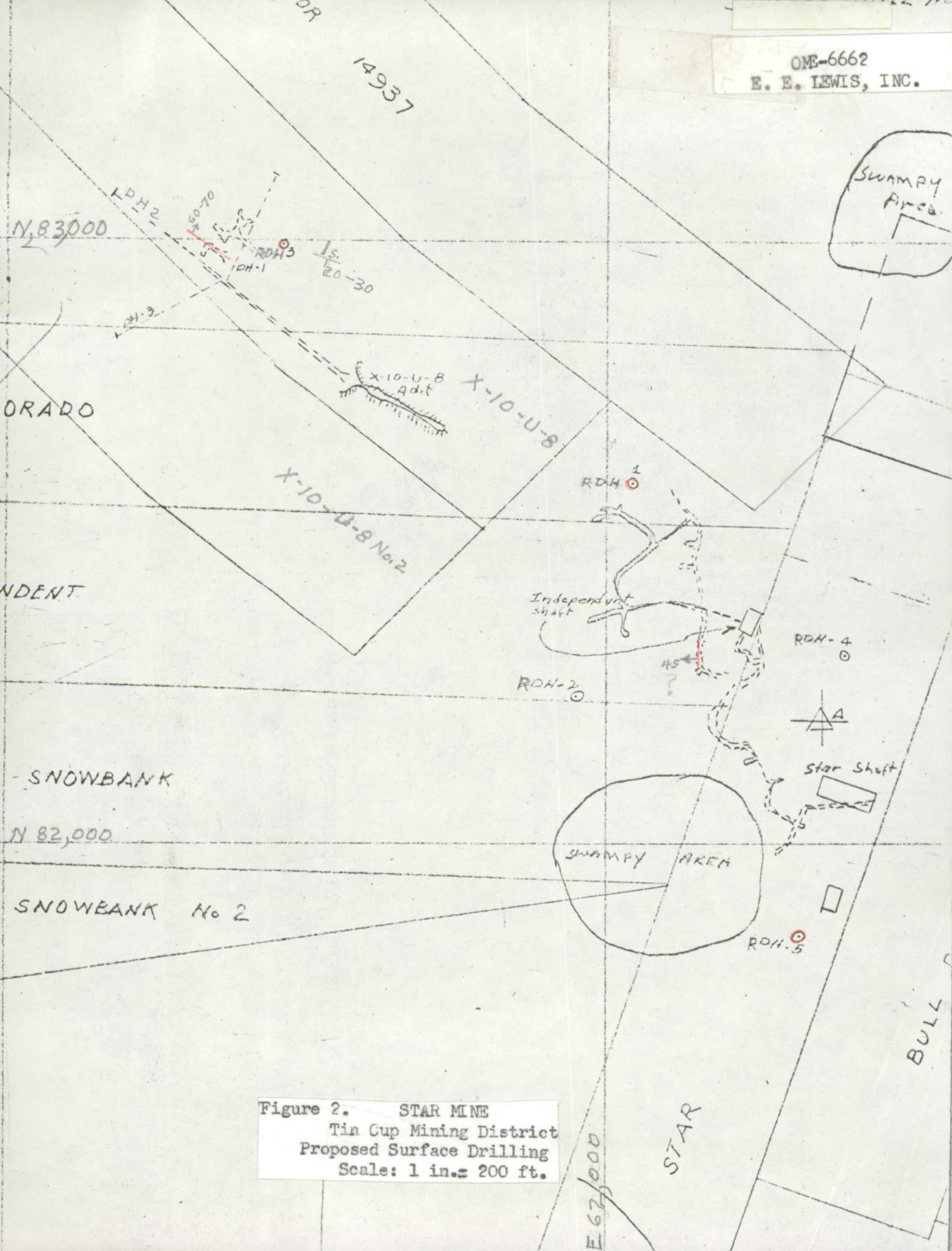
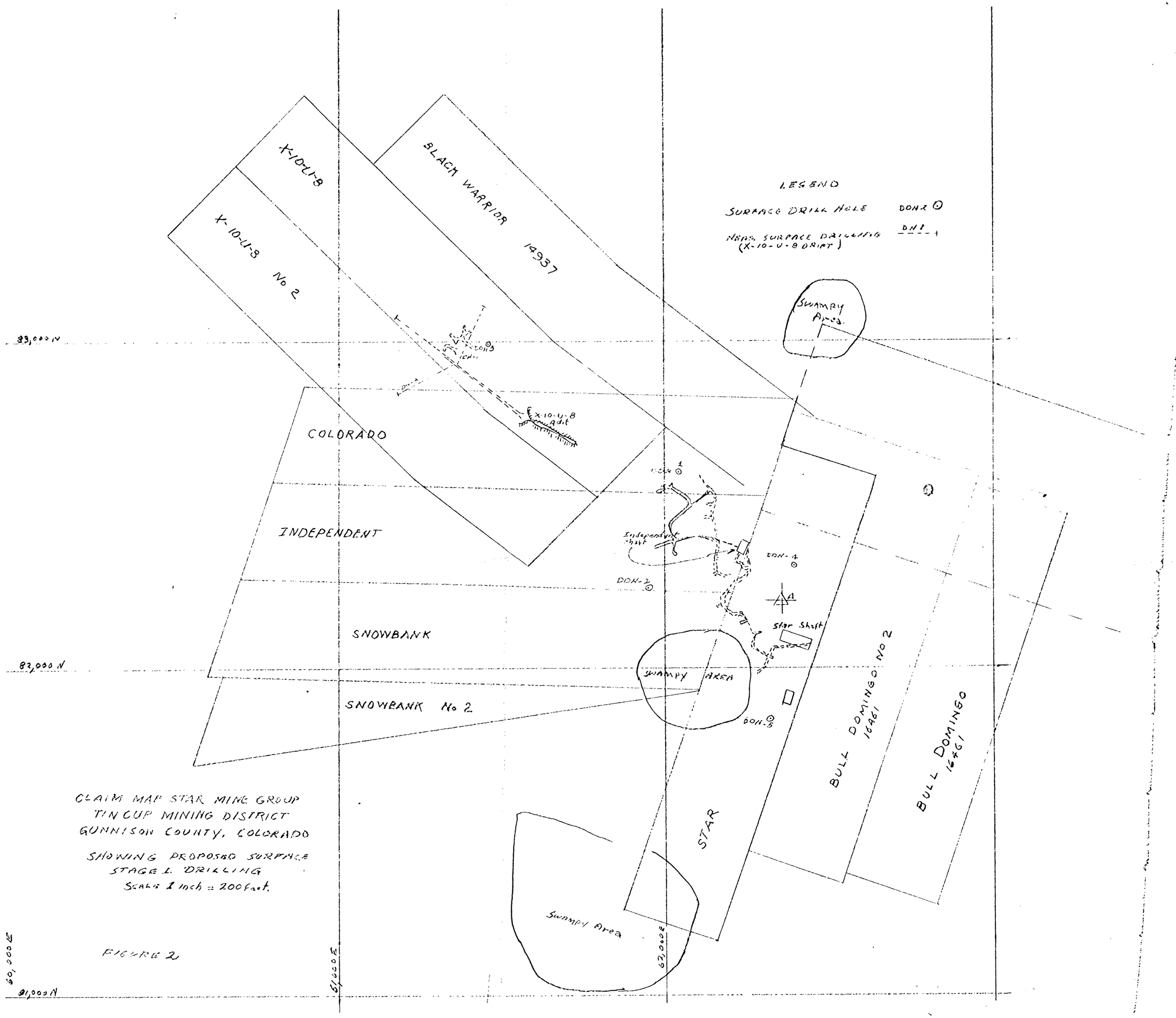


Figure 2. STAR MINE
Tin Cup Mining District
Proposed Surface Drilling
Scale: 1 in.= 200 ft.

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

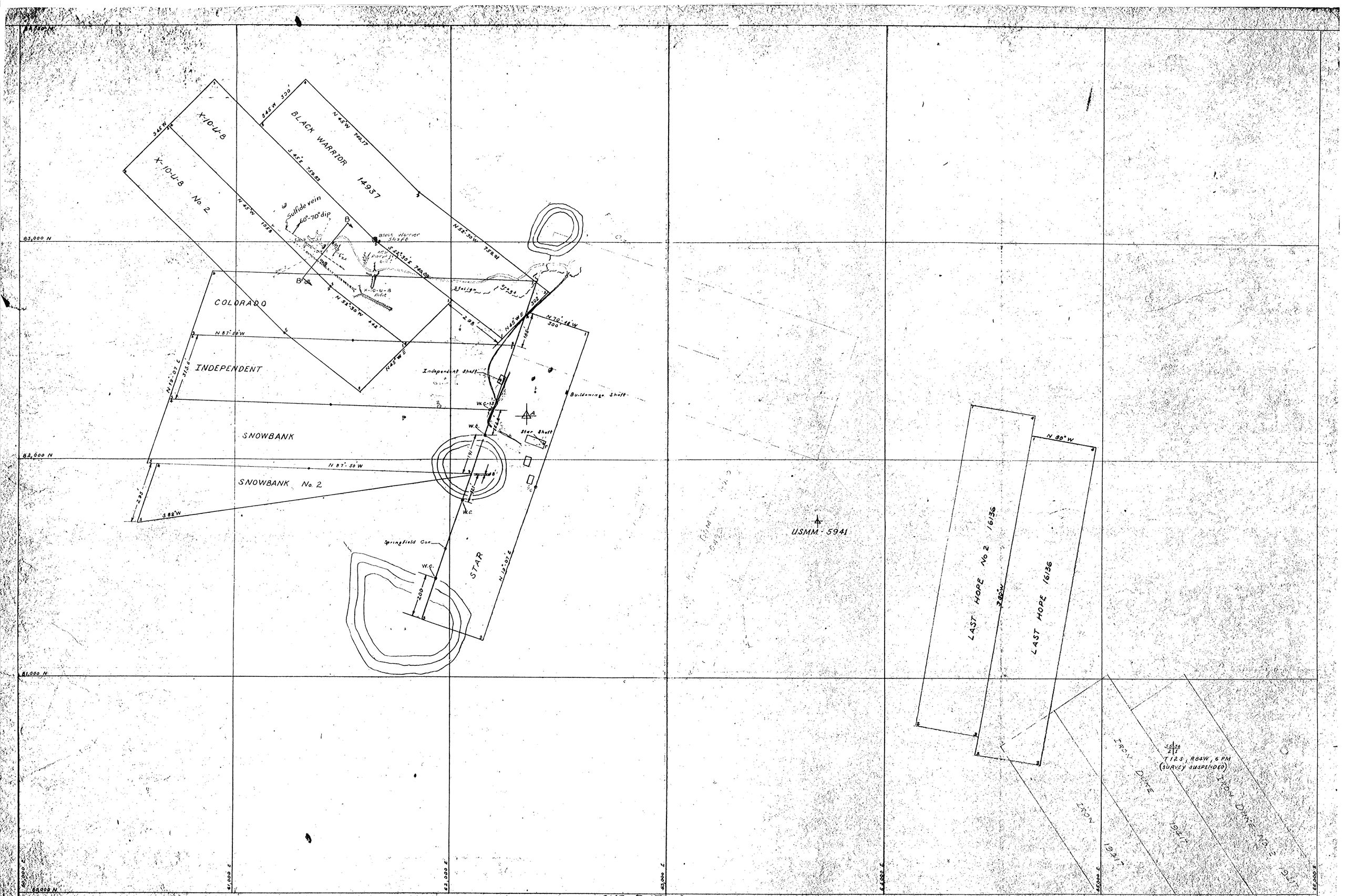
OFFICE OF MINERALS EXPLORATION
DOCKET 6662



CLAIM MAP STAR MINE GROUP
TIN CUP MINING DISTRICT
GUNNISON COUNTY, COLORADO

SHOWING PROPOSED SURFACE
STAGE 1. DRILLING
SCALE 1 inch = 200 feet.

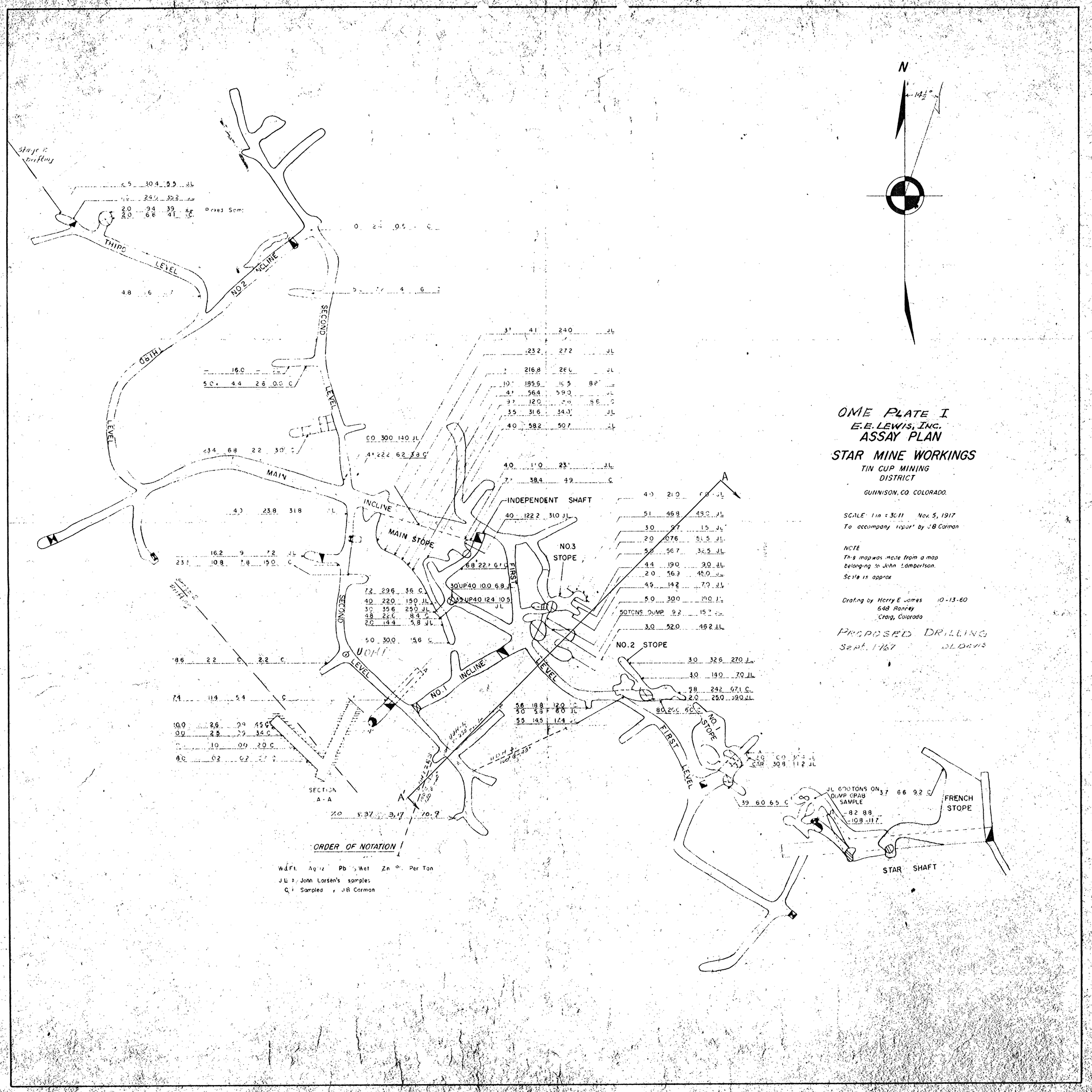
FIGURE 2

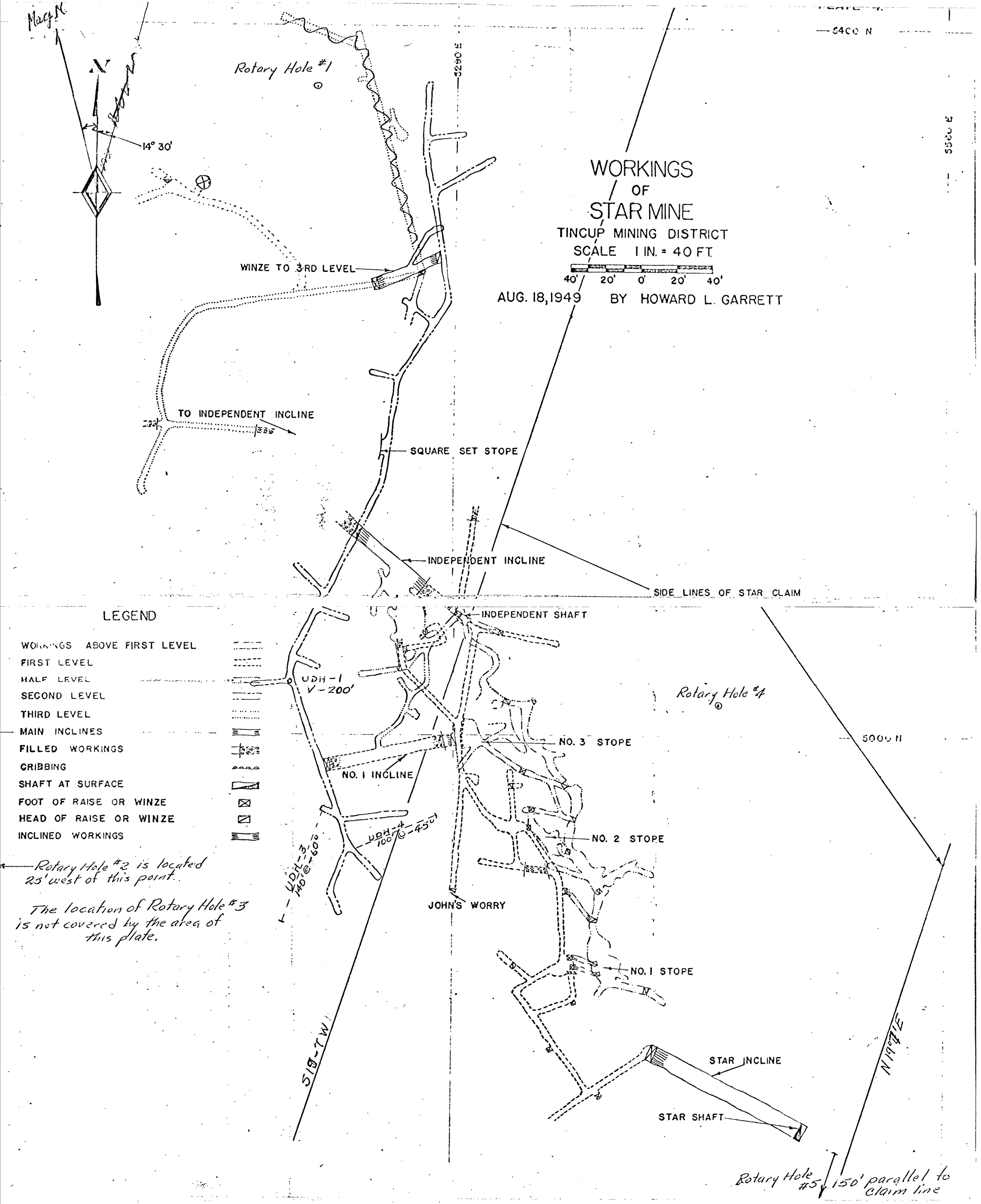


OME PLATE 2
CLAIM MAP STAR MINE GROUP
TIN CUP MINING DISTRICT GUNNISON COUNTY, COLORADO
Scale 1in. = 200ft.

LEGEND

W.C. = WITNESS CORNER
TRIANGULATION STA.
U.S. MINERAL MONUMENT
BUILDINGS
STREAM
PITS
SHAFT
LAKE
DUMPS
PROSPECT TUNNEL


N
14½°
THIRD LEVEL
NO 2 INCLINE
SECOND LEVEL
THIRD LEVEL
MAIN LEVEL
MAIN INCLINE
MAIN STOPE
INDEPENDENT SHAFT
NO.3 STOPE
FIRST LEVEL
SECOND LEVEL
NO.1 INCLINE
NO.2 STOPE
NO.1 STOPE
FIRST LEVEL
FRENCH STOPE
STAR SHAFT
JL 600 TONS ON DUMP GRAB SAMPLE
SECTION A-A
A
A'
ORDER OF NOTATION
Wt Ft. Ag oz Pb % Wet Zn % Per Ton
JL = John Larsen's samples
C = Sampled by J B Corman
ONE PLATE I
E.E. LEWIS, INC.
ASSAY PLAN
STAR MINE WORKINGS
TIN CUP MINING DISTRICT
GUNNISON, CO. COLORADO.
SCALE: 1 in = 30 ft Nov. 5, 1917
To accompany report by J B Corman
NOTE
This map was made from a map belonging to John Lambertson.
Scale is approx
Drafting by Harry E James 10-13-60
648 Ranney
Craig, Colorado
PROPOSED DRILLING
Sept. 1967 JL Davis


WORKINGS
OF
STAR MINE
TINCUP MINING DISTRICT
SCALE 1 IN. = 40 FT.
40' 20' 0' 20' 40'
AUG. 18, 1949 BY HOWARD L. GARRETT
Mag N
N
14° 30'
Rotary Hole #1
5400 N
5290 E
5380 E
WINZE TO 3RD LEVEL
TO INDEPENDENT INCLINE
SQUARE SET STOPE
INDEPENDENT INCLINE
SIDE LINES OF STAR CLAIM
INDEPENDENT SHAFT
UDH-1
V-200'
Rotary Hole #4
5000 N
NO. 3 STOPE
NO. 1 INCLINE
NO. 2 STOPE
UDH-3
140'@-60°
UDH-4
100'@-45°
JOHN'S WORRY
NO. 1 STOPE
STAR INCLINE
STAR SHAFT
S19°-7W
N19°7E
Rotary Hole #5 150' parallel to claim line
LEGEND
WORKINGS ABOVE FIRST LEVEL
FIRST LEVEL
HALF LEVEL
SECOND LEVEL
THIRD LEVEL
MAIN INCLINES
FILLED WORKINGS
CRIBBING
SHAFT AT SURFACE
FOOT OF RAISE OR WINZE
HEAD OF RAISE OR WINZE
INCLINED WORKINGS
Rotary Hole #2 is located 25' west of this point.
The location of Rotary Hole #3 is not covered by the area of this plate.