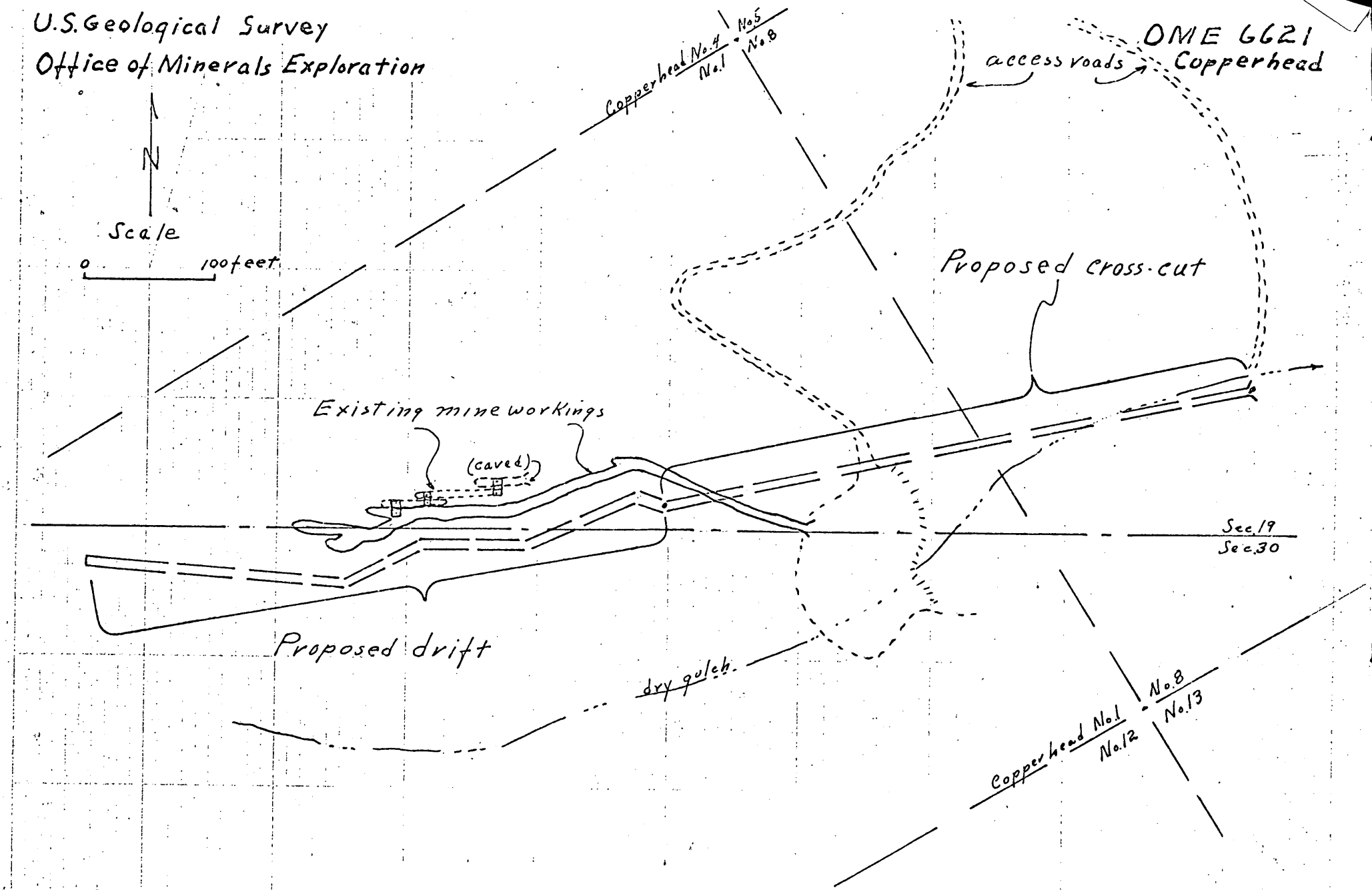
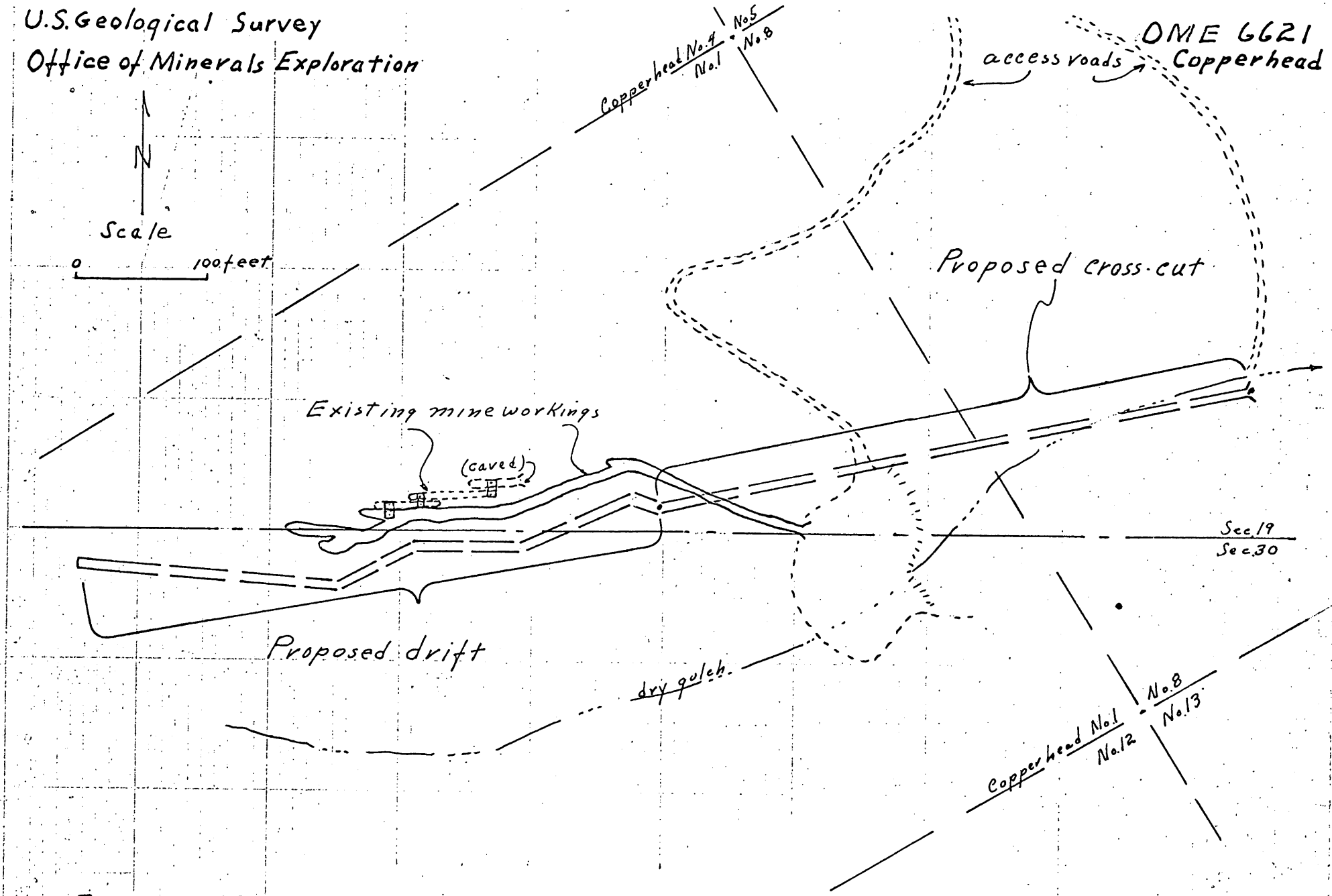


Figure 3 - Map showing existing mine workings and proposed cross-cutting and drifting, Copperhead Mine Mohave County, Arizona.

RUK. 10/67



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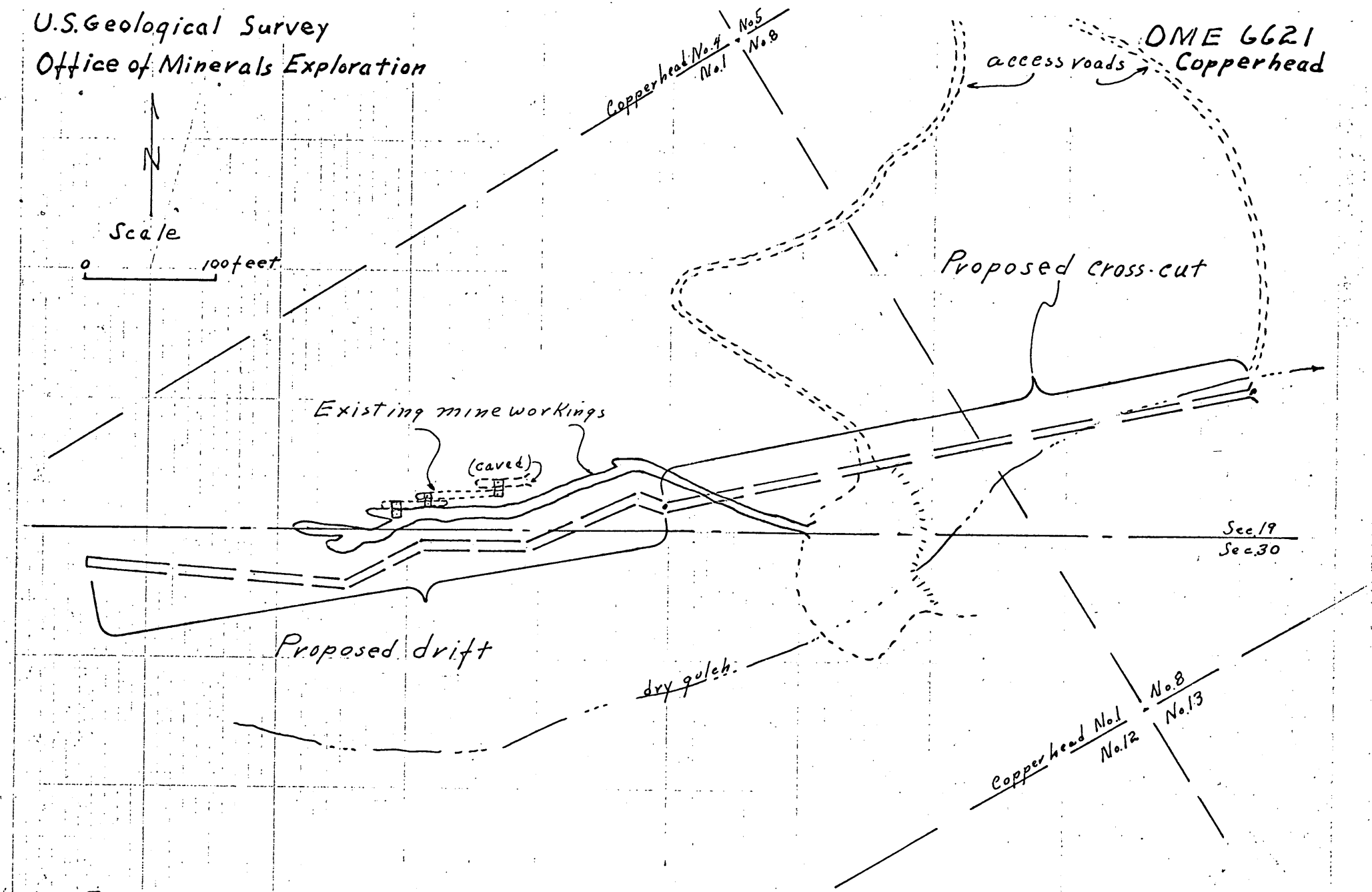
RUK. 10/67



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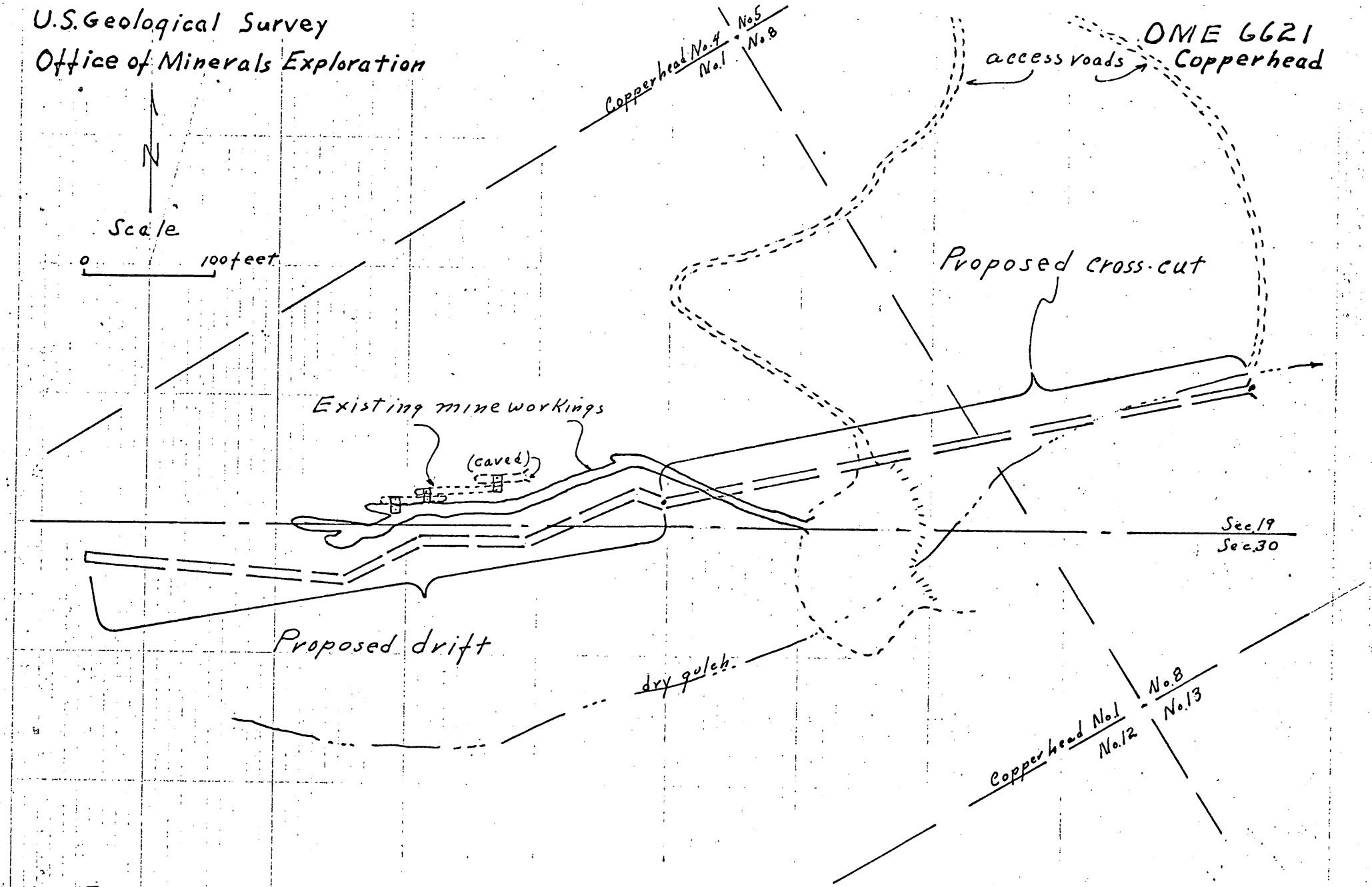

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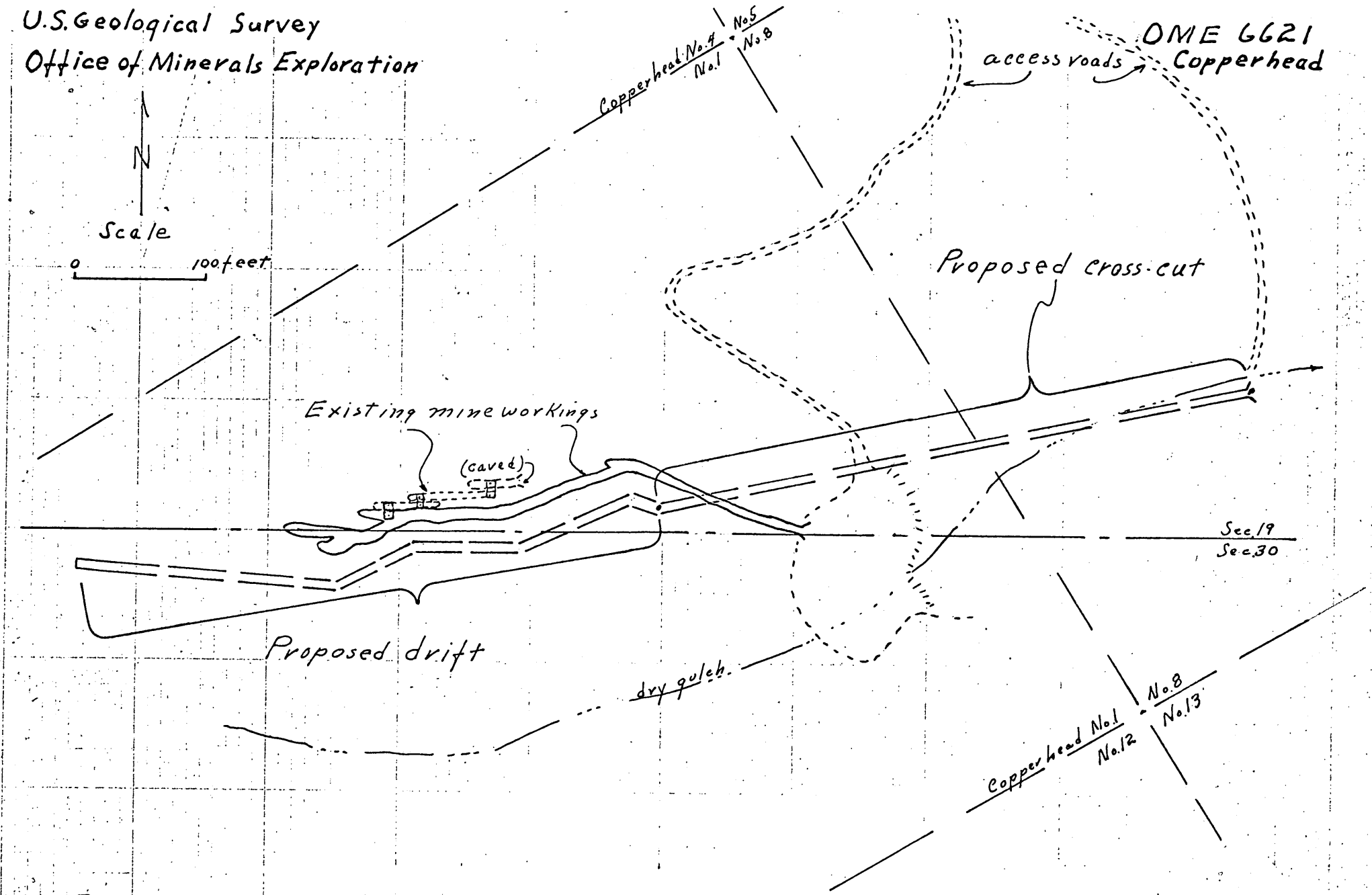


Figure 3 - Map showing existing mine workings and proposed cross-cutting and drifting, Copperhead Mine Mohave County, Arizona.

RUK. 10/67

U.S. Geological Survey
Office of Minerals Exploration

OME 6621
Copperhead

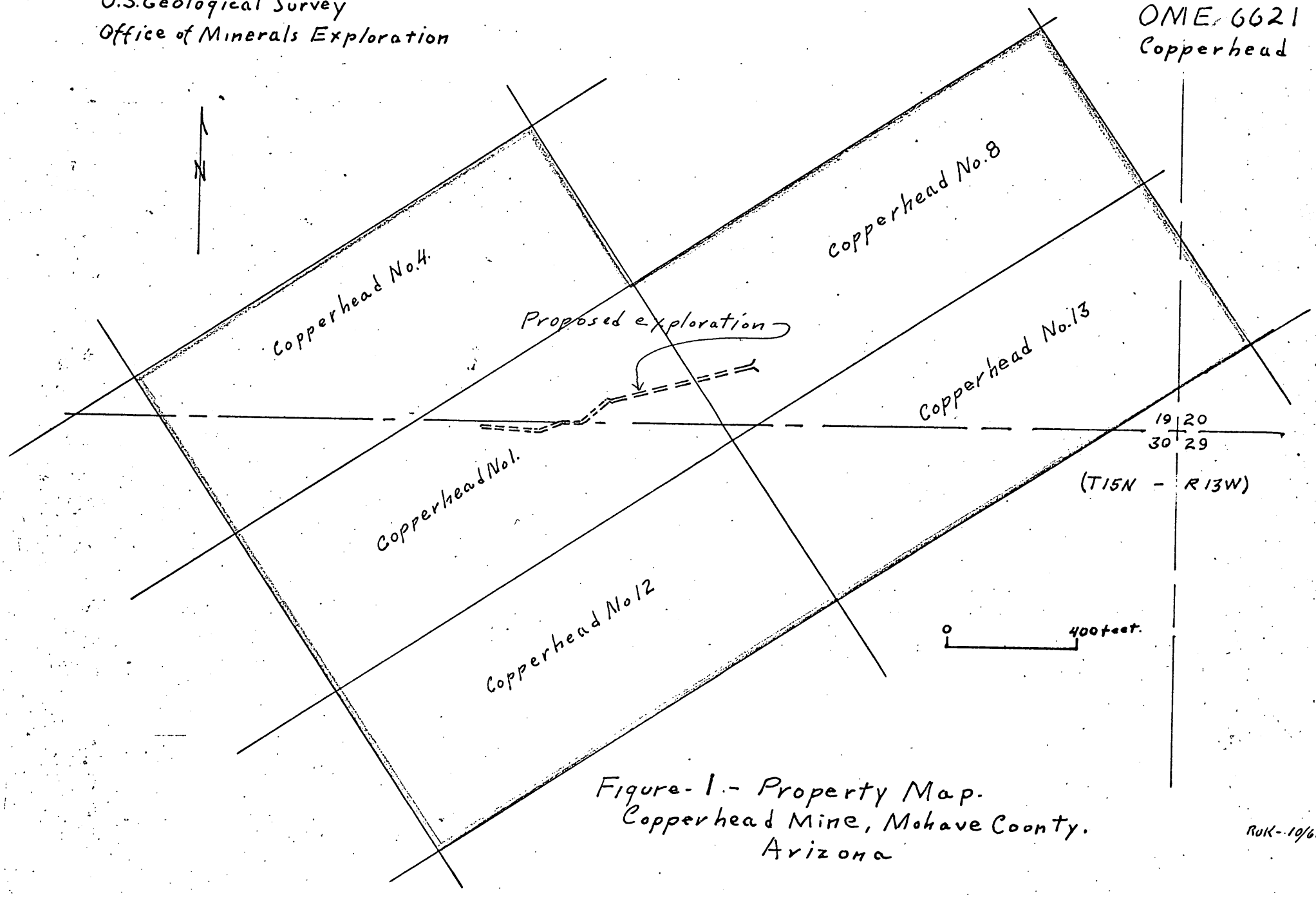
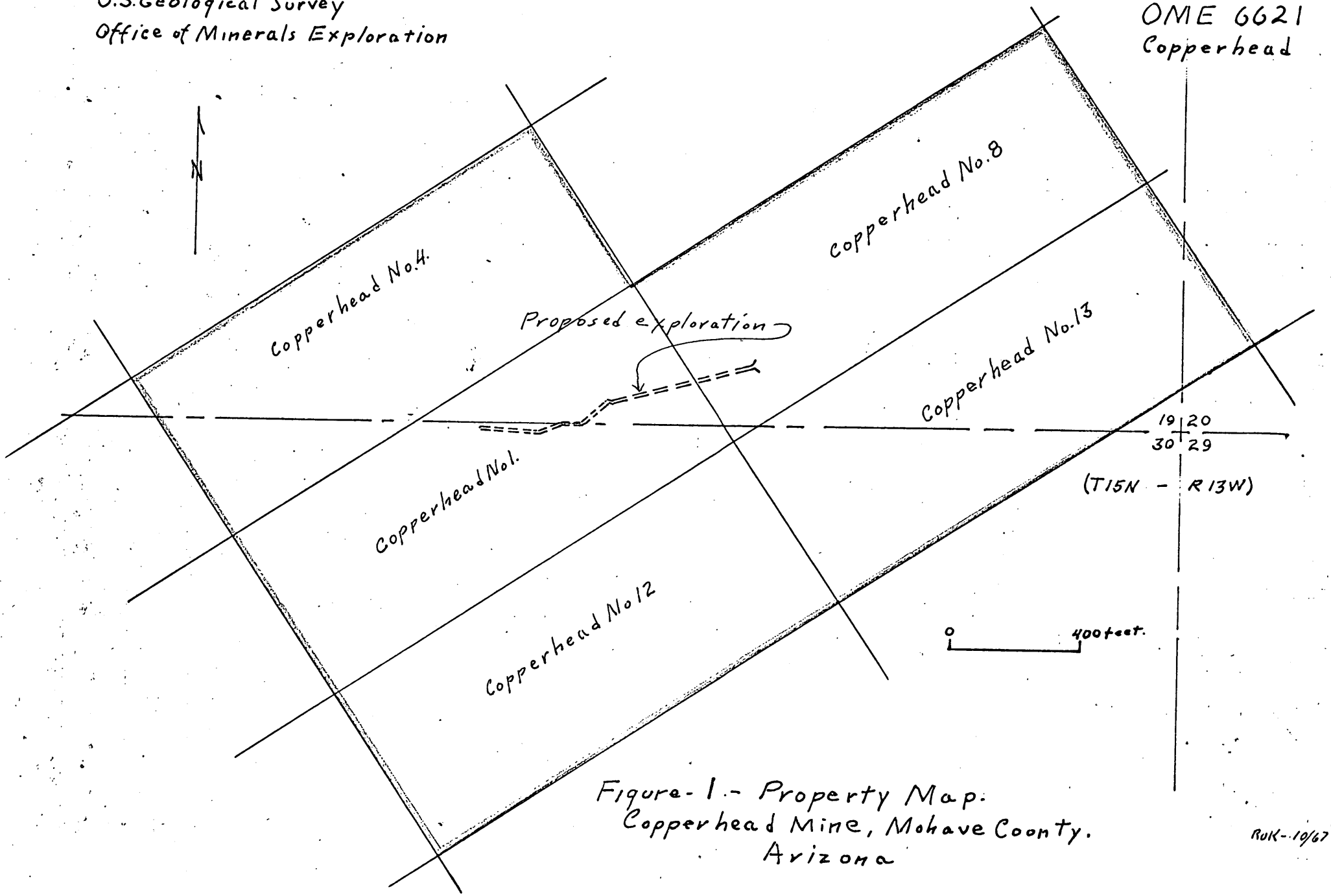


Figure-1.- Property Map.
Copperhead Mine, Mohave County.
Arizona

RUK-10/67

U.S. Geological Survey
Office of Minerals Exploration

OME 6621
Copperhead



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Arizona

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U.S. Geological Survey
Office of Minerals Exploration

OME 6621
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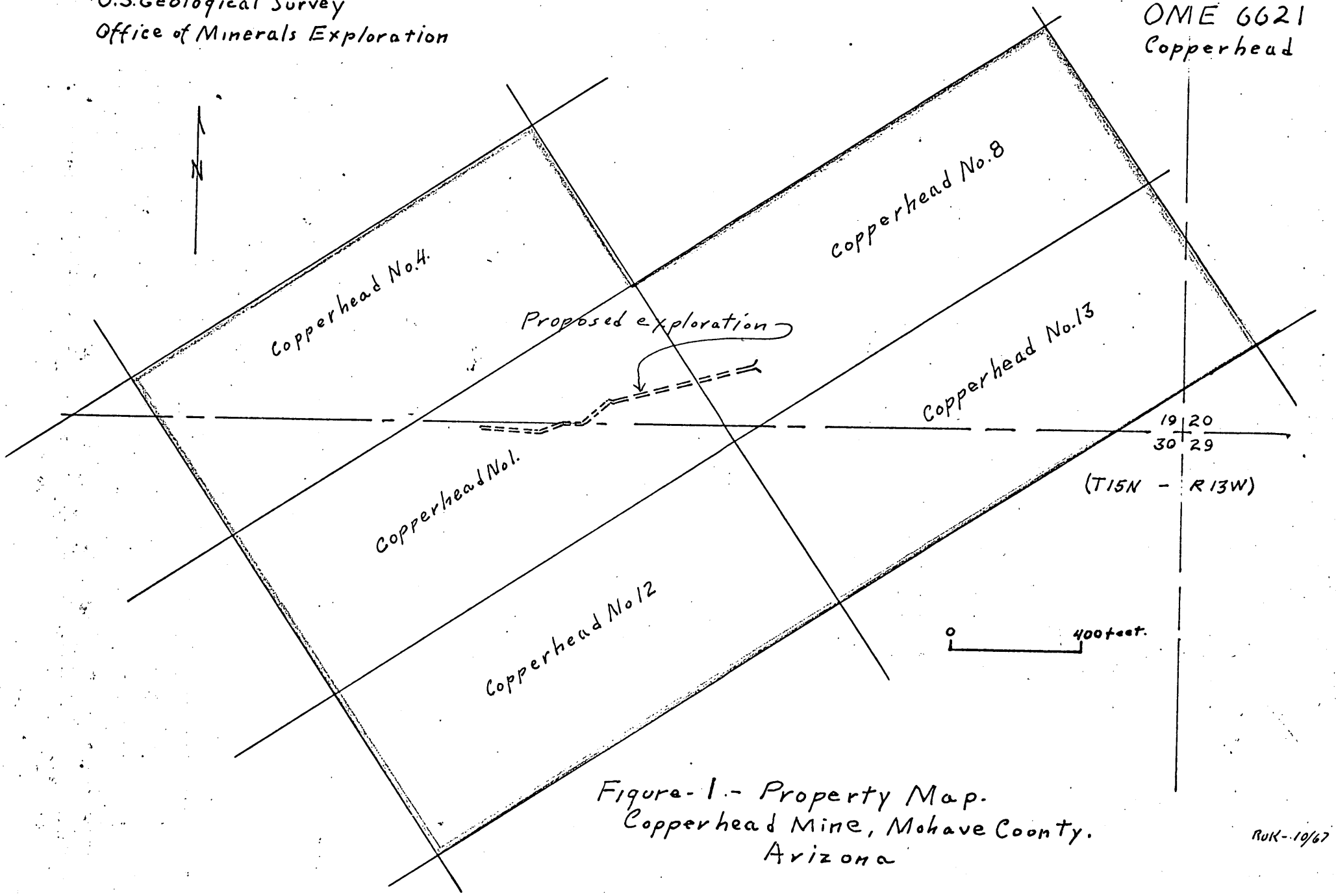

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RoK-10/67

U.S. Geological Survey
Office of Minerals Exploration

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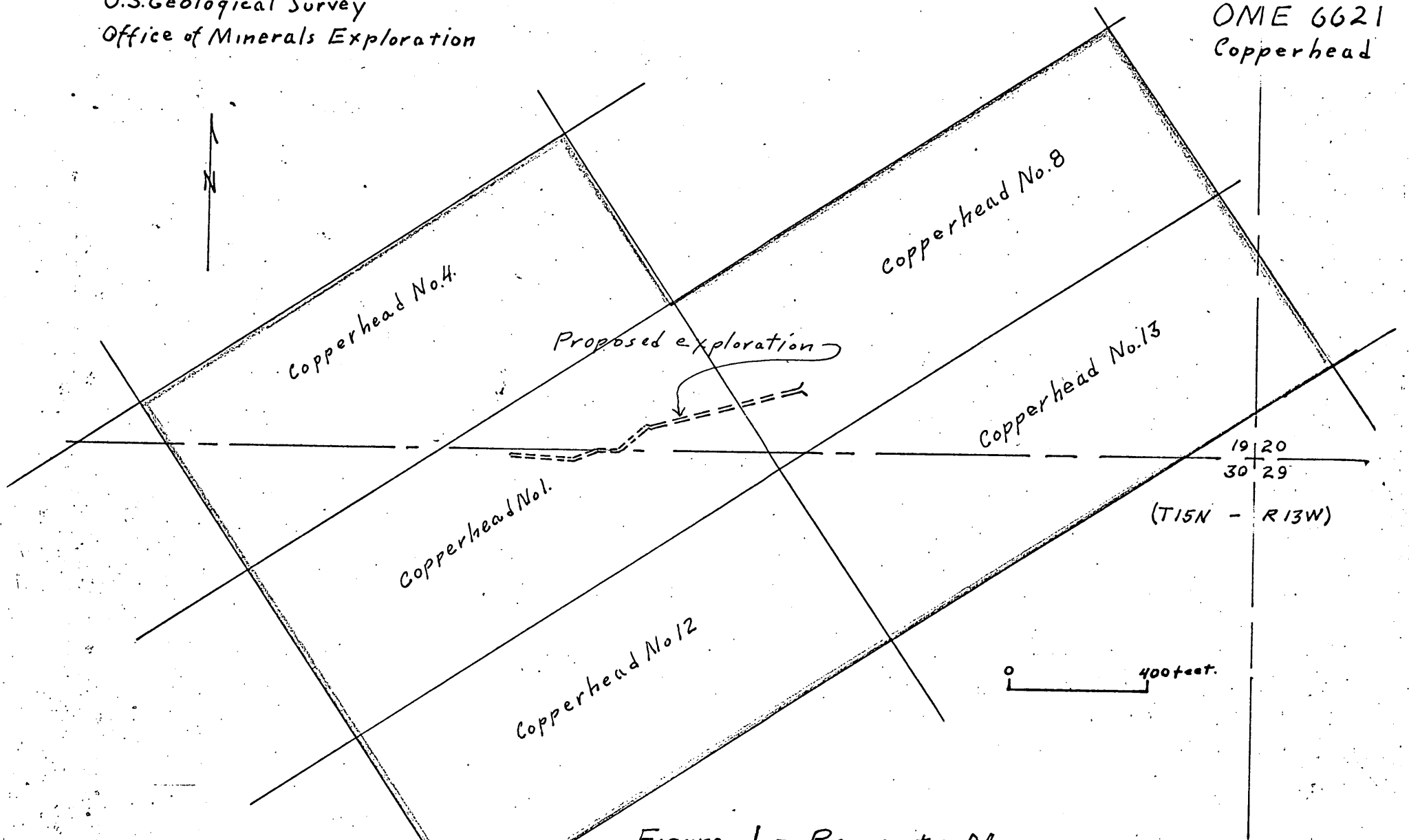

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Copperhead Mine, Mohave County.
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RUK-10/67

U.S. Geological Survey
Office of Minerals Exploration

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Copperhead

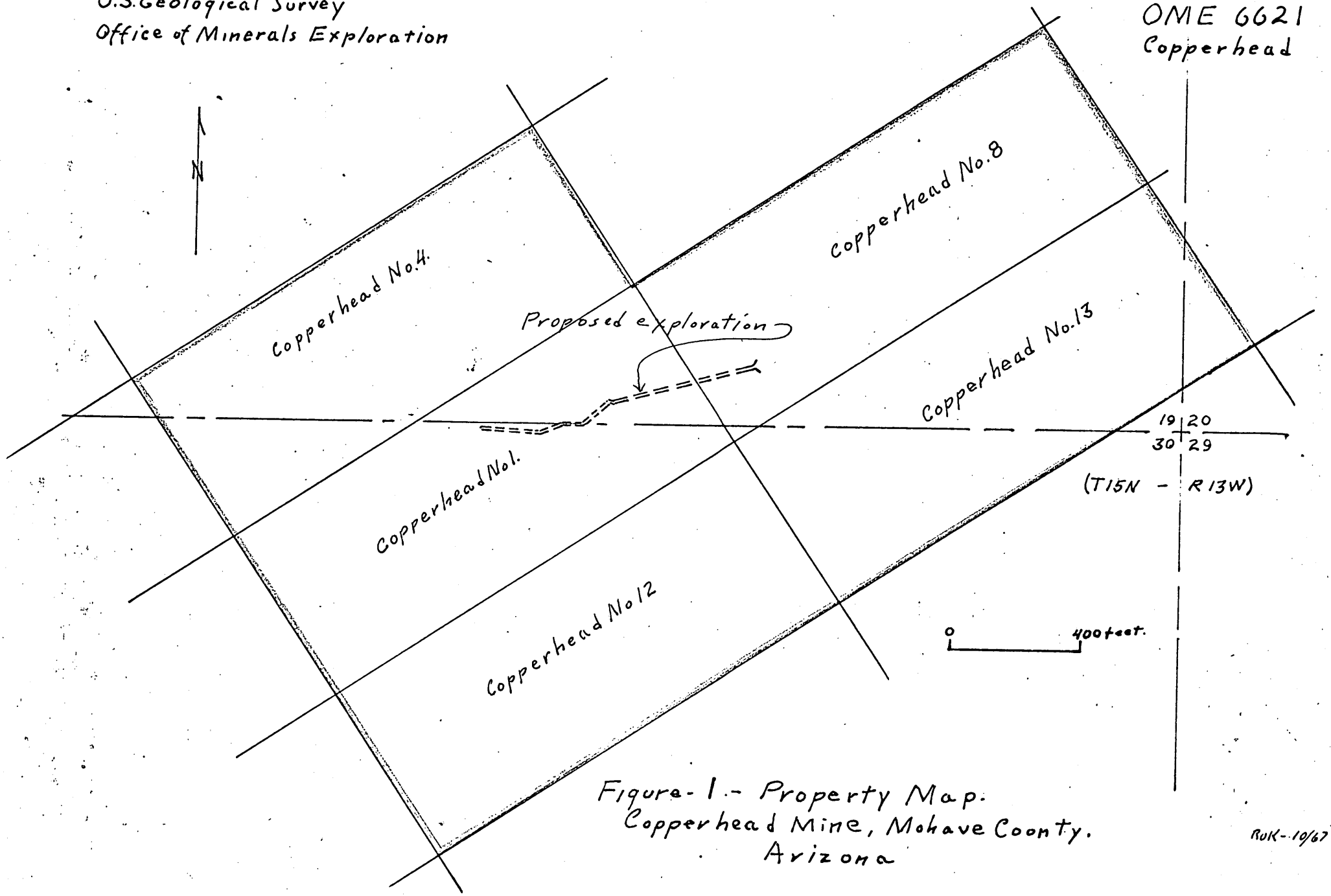

Figure-1.- Property Map.
Copperhead Mine, Mohave County.
Arizona

RoK-10/67

ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS:

That Keith B. Redd and C. Alfred Frost, ASSIGNORS, of Monticello, San Juan County, State of Utah, do hereby sell, assign, transfer, and set over to Copper Head, Inc., a corporation, having its principal place of business at Monticello, San Juan County, State of Utah, ASSIGNEE, for the sum of Ten Dollars and other good and valuable consideration, all of the right, title and interest of the ASSIGNORS in and to that certain Mining Lease With Option To Purchase dated the 4th day of November, 1965, made and entered into by and between Grat Wilson and Louise Wilson, as Lessors, and the ASSIGNORS herein as Lessees, and which covers certain unpatented lode mining claims situated in the Aubrey Mining District, Mohave County, State of Arizona, which are more particularly described in Exhibit A which is attached hereto and made a part hereof.

To Have and To Hold unto ASSIGNEE, its successors and assigns, to its own use forever.

WITNESS the hands of the said ASSIGNORS this 1st day of July, 1967.

Keith B. Redd

Keith B. Redd

C. Alfred Frost

C. Alfred Frost

STATE OF UTAH)
: ss.
County of San Juan)

On this 1st day of July, 1967, personally appeared before me Keith B. Redd and C. Alfred Frost, the signers of the foregoing instrument, each of whom duly acknowledged to me that they executed the same.

L. Robert Barber

Notary Public residing at
Monticello, Utah

My Commission Expires:
Jan 4, 1971

EXHIBIT A

Those certain unpatented mining claims, including the amended locations thereof, situate in the Aubrey Mining District, Mohave County, Arizona, the names of which and the book and page where the original location notices thereof may be found of record in the Office of the County Recorder of said Mohave County, Arizona, being as follows, to-wit:

NAME	BOOK OF MINES	PAGE
TRAIL	5-V	21
COPPER HEAD	5-U	110
COPPER HEAD # 2	5-V	19
COOPER HEAD # 3	5-V	20
COOPER HEAD # 4	5-V	167
COOPER HEAD # 5	5-V	168
COOPER HEAD # 6	5-V	169
COPPER HEAD # 7	5-V	170
COPPER HEAD # 8	5-V	171
COPPER HEAD # 9	5-V	172
COPPER HEAD # 10	5-V	173
COPPER HEAD # 11	5-V	174
COPPER HEAD # 12	5-V	175
COPPER HEAD # 13	5-V	176
COPPER HEAD # 14	5-V	177
COPPER HEAD # 15	5-V	178

The amended location notices on the above named mining claims may be found of record in the office of the County Recorder of said Mohave County, Arizona, as follows, to-wit:

NAME	BOOK OF MINES	PAGE
COPPER HEAD AMENDED	6-A	165
COPPER HEAD # 2, AMENDED	6-A	166
COPPER HEAD # 3, AMENDED	6-A	167
COPPER HEAD # 4, AMENDED	6-A	168
COPPER HEAD # 5, AMENDED	6-A	169
COPPER HEAD # 6, AMENDED	6-A	170
COPPER HEAD # 7, AMENDED	6-A	171
COPPER HEAD # 8, AMENDED	6-A	172
COPPER HEAD # 9, AMENDED	6-A	173
COPPER HEAD # 10, AMENDED	6-A	174
COPPER HEAD # 11, AMENDED	6-A	175
COPPER HEAD # 12, AMENDED	6-A	176
COPPER HEAD # 13, AMENDED	6-A	177
COPPER HEAD # 14, AMENDED	6-A	178
COPPER HEAD # 15, AMENDED	6-A	179

OME Region III
RECEIVED
JUL 3 1967
Denver, Colorado

ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS:

That Keith B. Redd and C. Alfred Frost, ASSIGNORS, of Monticello, San Juan County, State of Utah, do hereby sell, assign, transfer, and set over to Copper Head, Inc., a corporation, having its principal place of business at Monticello, San Juan County, State of Utah, ASSIGNEE, for the sum of Ten Dollars and other good and valuable consideration, all of the right, title and interest of the ASSIGNORS in and to that certain Mining Lease With Option To Purchase dated the 4th day of November, 1965, made and entered into by and between Grat Wilson and Louise Wilson, as Lessors, and the ASSIGNORS herein as Lessees, and which covers certain unpatented lode mining claims situated in the Aubrey Mining District, Mohave County, State of Arizona, which are more particularly described in Exhibit A which is attached hereto and made a part hereof.

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Keith B. Redd

C. Alfred Frost

STATE OF UTAH)
: ss.
County of San Juan)

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L. Robert Anderson
Notary Public residing at
Monticello, Utah

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COPPER HEAD # 9	5-V	172
COPPER HEAD # 10	5-V	173
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COPPER HEAD # 13	5-V	176
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COPPER HEAD # 13, AMENDED	6-A	177
COPPER HEAD # 14, AMENDED	6-A	178
COPPER HEAD # 15, AMENDED	6-A	179

MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE

Contract No. _____ Docket No. 6621

Application
- [x] Denied
- [ ] 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
- [ ] 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) 10/67
- [ ] 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

DCSB

DOVE CREEK STATE BANK

DOVE CREEK, COLORADO

3-31-67

MEMO FROM

S. E. THOMPSON
CASHIER

Copper Head, Inc.
%C. Alfred Frost
Box 248
Monticello, Utah.

Mr. Frost,

Your application for a loan in the amount of $ 39,937.00 has been rejected by our bank because of the location of the project and the fact that the amount of the loan is over our loan limit.

N.G.

Yours Truly,

S. E. Thompson

Letter. 5/17

COPPER HEAD, INC.

Monticello, Utah
March 16, 1967

Mr. S. E. Thompson, Cashier
Dove Creek State Bank
Dove Creek, Colorado

Dear Mr. Thompson:

Mr. Keith B. Redd and myself have acquired a lease on a silver mining property near Wikieup, Arizona known as the "Old Copper Head Mine" and we are operating under the name of Copper Head, Inc.

The ore vein has been stoped out from the present tunnel to the surface, but the ore continues to go down under the floor. Different mining engineers who have inspected the property have recommended running an exploration tunnel under the present tunnel to intersect the ore body at a greater depth, and we have been convinced that this is the course we should follow.

We submit an application for a loan of $39,937.00 to run 900 feet of exploration tunnel and 100 feet of raise. This amount is recommended by Mr. William N. Booth, Mining Engineer of Kingman, Arizona. All money is to be used only on tunnel work.

Other Mining Engineers and Geologists who have inspected this property and recommended this tunnel are:

1) Dr. Brown, Arizona State College, Tempe, Arizona
2) Frank J. Frankovitch, Spokane, Washington
3) Thomas Anderson, Kingman, Arizona
4) Gerry Weathers; Bill Collins, Atlas Minerals, Moab, Utah
5) C. R. Ranney, Grand Junction, Colorado

I will be glad to meet with your directors at their convenience.

Very truly yours,

C. Alfred Frost

C. Alfred Frost
COPPER HEAD, INC.

First Security Bank of Utah
NATIONAL ASSOCIATION

MONTICELLO OFFICE

MONTICELLO, UTAH

March 31, 1967

Copper Head, Inc.
C/O C. Alfred Frost
Box 247
Monticello, Utah

Dear Mr. Frost:

We have carefully reviewed your request for a $39,937.00 loan to develop an exploration tunnel at your mine in Arizona.

Due to the speculative nature of this project and the tight money situation that is prevalent in today's market, we are unable to grant you this loan.

We want to thank you for giving us an opportunity to consider your application.

Very truly yours,

Robert Dalton
Manager

RD:mh

COPPER HEAD, INC.

Monticello, Utah
March 16, 1967

Mr. Robert Dalton, Manager
First Security Bank of Utah, N.A.
Monticello Office
Monticello, Utah

Dear Mr. Dalton:

This letter is to confirm our recent conversation concerning a loan for ore exploration. This property near Wikieup, Arizona is being purchased on a contract from Grat Wilson of whom you know. It is known as the "Old Copper Head Mine." We are operating under the name of Copper Head, Inc.

We submit an application for $39,937.00 to be used in running a 900 foot drift under the old workings, and a 100 foot raise, and also including engineering, timbering, and other expenses incurred only on the tunnel project. Mr. William N. Booth, Mining Engineer of Kingman, Arizona estimated this amount of money needed.

There have been quite a number of mining engineers and geologists inspect this property and they all have recommended the tunnel project. To name of few of these men:

1) Dr. Brown, ARizona State, Tempe, Arizona
2) Thomas Anderson, Kingman, Arizona
3) Frank J. Frankovitch, Spokane, Washington
4) William N. Booth, Kingman, Arizona
5) Gerry Weathers, Bill Collins, Atlas Minerals, Moab, Utah
6) C. R. Ranney, Grand Junction, Colorado

I will be glad to furnish any additional information you may require.

Very truly yours,

C. Alfred Frost

C. Alfred Frost
COPPER HEAD, INC.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

April 10, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
APR 12 1967
INITIALS/CODE

Memorandum

To: Chief, OME

From: Field Officer, Region III

Subject: C. Alfred Frost (Silver)
Copper Head, Inc.
Copper Head Mine
Mohave County, Arizona

Transmitted herewith is one copy of an application for financial assistance in minerals exploration on the above-stated property, for your attention and consideration. The other copy is being retained in the Field Office files, Region III.

J. William Hasler

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

MEClark/mc/4/10/67

MME Form 40
Jan. 65

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL COPY
O. & G. E.
RECEIVED
APR 12 1967
INITIAL
CODE

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.)*

Copper Head, Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6621

DATE RECEIVED: 4-12-67

REGION: III

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

INDIVIDUAL	
CORPORATION	
PARTNERSHIP	X
OTHER *(Specify)*	

STATE IN WHICH FIRM IS ORGANIZED: Utah & Arizona

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
C. Alfred Frost	Box 247 Monticello, Utah	owner partner
Keith B. Redd	Box 237 Monticello, Utah	owner partner

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

ESTIMATED COST OF PROJECT: $ 53,516.00

PROPERTY NAME	LOCATION COUNTY	LOCATION STATE
Copper Head Mine	Mohave	Arizona

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, D. C., or with 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.

3-31-1967
DATED

Keith B. Redd C. Alfred Frost
BY *(Signature)*

owners
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 operations *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).]

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

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Copper Head, Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah

1-a) Enclosed are two letters from local banks on refusal of loan.

1-b) Lease-purchase contract held in the names of C. Alfred Frost and Keith B. Redd, both of Monticello, Utah, having a 100% interest. The lease is in the process of being incorporated in the name of Copper Head, Inc. All work has been done and ore shipments have been made under name of Copper Head, Inc.

1-c) Our share of the cost of exploration work will be furnished by C. Alfred Frost and Keith B. Redd.

2-a) We have a lease-purchase contract from Grat and Louise Wilson of Wikieup, Arizona (copy attached) which calls for 15% royalty on the first $75,000.00 and 10% royalty on the balance, with a paid out of royalty purchase price of $250,000.00
There are no liens, mortgages or other encumbrances. Lease recorded November 10, 1965 in docket No. 85, pages 357 to 365, records of Mohave County, Kingman, Arizona.

need F + S agreement

2-b) Unpatented (but it is surveyed) mining claims located in Aubrey Mining District, T 15N R 13W sec. 19 and 30, Mohave County, Arizona. The claims are Copper Head, recorded in book 5U, page 110. Amended Copper Head, recorded in book 6-A, page 165. Copper Head #4 recorded in book 5V, page 167. One half of Copper Head #8 recorded in book 5V, page 171. We have 14 other Copper Head claims No. 2 to 15, inclusive, surrounding these listed claims. They should not be included in this application.

2-c) No liends or subordination agreements.

Copper Head, Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah

3-a) (See enclosed map.) The original work was started in 1896 and completed in 1908. It consisted of stoping out and following the ore shoot from the top of a hill down to the present tunnel. The old face was 290 feet from the portal. We drifted ahead for 34 more feet with a continuous small showing of ore and hit a vein of high grade from which we shipped lot No. 6845, which ran 341.33 oz. silver per ton. This vein was cutt off by a fault. We have drifted ahead 30 feet and down about 14 feet, but failed to pick up a good grade of ore in the vein again.

3-b) We have 100% interest in the operations described, and are paying 15% royalty on ore shipped.

3-c) As near as can be estimated by the original family who worked the Copper Head between 1892 and 1908, about 140,000 oz. of silver was mined. Since we acquired the property and put a road into it, we shipped on April 25, 1966 Lot No. 6845, assaying 341.33 oz. of silver per ton for 13.343 tons. On July 21, 1966 we shipped Lot No. 7242, assaying 63.06 oz. of silver per ton for 14.97 tons. Both shipments were made in the name of Copper Head, Inc. to Inspiration Consolidated Copper Co. at Inspiration, Arizona. Settlement sheets are included.

3-d) There are no known ore reserves, but the stoped out ore shoot coming down from above goes under the floor of the tunnel, where there is an exposed vein of low grade silver ore going down. See enclosed map.

Copper Head, Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah

The purpose of this loan is to drive a tunnel to intersect and prospect this ore shoot at a greater depth.

3-e) The formation is precambrian and the vein system approximates east and west. Vein shows numerous zones of mineralization. The vein is quartz with intrusion of diorite. The walls are gneiss, granite and pegmatites.

3-f) The present tunnel cuts four ore shoots (before reaching the main ore body). The proposed work would intersect these ore shoots at greater depth.

The Primary Purpose: The main ore body extends below the floor, having low grade ore exposed in the floor. The loan is to prospect this ore body at greater depth. Samples taken are cut samples and marked on map. The high grade samples No. 575 and 373 are grab samples, see map.

3-g) Assays and maps included.

4-a) Person who will meet O.M.E. representative is F. J. Denten, Box 931, Wikieup, Arizona. Take the Chicken Springs Road going west out of the center of Wikieup, Arizona, for about four miles. After crossing the first cattle guard, take the first road to the left (about 100 yards) and follow the main travelled road to the mine.

4-b) Ore will be shipped by truck from mine near Wikieup, Arizona to Inspiration Consolidated Copper Co. at Inspiration, Arizona, about 200 miles.

Copperhead, Inc. proposes to drive the 900 feet of tunnel and 100 feet of raise at the following cost:

53,52/pr

1. 900 feet of tunnel 7' x 8', and,
2. 100 feet of raise, 1,000 total for $53,516.00

The above is all-inclusive, arrived by the following:

a. 900 feet of drift at $40.00 per foot		$36,000.00
b. 100 feet of raise at $30.00 per foot		3,000.00
c. 500 feet of timbering at $6.75 installed		3,375.00
d. 30 assays, Ag. Pb. Cu. at $7.50		225.00
e. Monthly expense:		
1. Supervisor-Manager	$850.00	
2. Geologist-Engineer (Weekly Examination)	400.00	Cons.
3. Bookkeeping	100.00	
4. Permissable rental on Copperhead, Inc. equipment	329.49	
	$1,679.49	

Based on advance of 7.5 feet per day, 1,000 feet 5 day week, 6½ months, 6½ x $1,679.49 = $10,916.00

Total $53,516.00

The above costs are based on the inclusion of Social Security, State Insurance, Withholding, Liability Insurance and Transportation.

Copperhead, Inc, is applying for a loan based on exploration for silver.

O. M. E. loan, 75% of $53,516.00 = $39,937.00

1.(9)

First Security Bank of Utah

NATIONAL ASSOCIATION

MONTICELLO OFFICE

MONTICELLO, UTAH

March 31, 1967

Copper Head, Inc.
C/O C. Alfred Frost
Box 247
Monticello, Utah

Dear Mr. Frost:

We have carefully reviewed your request for a $39,937.00 loan to develop an exploration tunnel at your mine in Arizona.

Open request

Due to the speculative nature of this project and the tight money situation that is prevalent in today's market, we are unable to grant you this loan.

We want to thank you for giving us an opportunity to consider your application.

Very truly yours,

Robert Dalton

Robert Dalton
Manager

RD:mh

DCSB

DOVE CREEK STATE BANK

DOVE CREEK, COLORADO

3-31-67

MEMO FROM . .

S. E. THOMPSON
CASHIER

Copper Head, Inc.
%C. Alfred Frost
Box 240
Monticello, Utah.

Mr. Frost,

NG

Your application for a loan in the amount of $ 39,937.00 has been rejected by our bank because of the location of the project and the fact that the amount of the loan is over our loan limit.

Opin. requested

Yours Truly,

S. E. Thompson

WILLIAM N. BOOTH
GEOLOGIST

PHONE: AREA CODE 602
753-6408

2017 MOTOR AVE.
KINGMAN, ARIZONA 86401

3(c)

HISTORY OF THE COPPERHEAD MINE

This silver mine, located in the Hualapai Mountains, in Mohave County, in Arizona, was first staked about 1892, by a Mr. Ed Williams. Mr. Williams and his associates mined the property from 1892 until 1912, producing about 140,000 oz. of silver. Ore shipped averaged 700 oz.

The mine was closed until it was re-located by Mr. William's son, Budge, in 1935. He opened up the vein at a point 100 feet lower than the first drift. He mined a payshoot about 20 feet long and two feet wide, which produced a small tonnage of ore running 30 oz. in silver.

In 1964, the property was re-located by Mr. Budge Williams and Mr. Grat Wilson. In 1965, Mr. Williams sold his interest to Mr. Wilson. In this same year a truck road was cut into the mine, to replace the old mule trail.

In the fall of 1965, Mr. Alfred Frost and Mr. Keith B. Redd, of Monticello, Utah took a lease option on the property and engaged Mr. F. J. Denten as manager of operations. In January of 1966, widening and drifting was commenced in the new drift. In March, values in silver, from 1911 oz. to 4582 oz. per ton were found in a four inch streak. A thirteen ton shipment, (Lot #6845) was shipped from the shoot. The drift was then extended to a point 400 feet from the portal. While further exploring, a stope through ore assaying 89.0 oz., broke into the bottom of the old winze, sunk in the original workings.

At a point 265 feet from the portal, a winze was dug to determine the extent and the value of the ore under the floor. From a section

twenty feet long and four feet deep, about fifteen tons of ore assaying 63.06 oz. of silver were shipped, (Lot 7242). The winze was back filled from a raise above it. From that time to date the only work done has been underground and above ground cleanup, and proper timbering where necessary.

T. W. ANDERSON, *Geological Engineer*

WILLIAM N. BOOTH
GEOLOGIST

PHONE: AREA CODE 602
753-6408

2017 MOTOR AVE.
KINGMAN, ARIZONA 86401

3(e)

GEOLOGY OF THE COPPERHEAD MINE

The "Copperhead" is located in the Southern Hualapai Mountains, in Mohave County, Arizona. It is in the S. E. ¼ of Sec. 19, T. 15 N., R. 13 W, in the Aubrey Mining District, about 7 miles South and West of Wikieup. It is at an elevation of approximately 4,500 feet. This mountainous area consists in the greater part of Pre-Cambrian crystalline rocks. They are granitoid rocks, gneisses, and a variety of schists. There are a few interbedded amphibolites, representing local intrusions that were metamorphosed with the rest of the Pre-Cambrian. The area also contains masses of pegmatitic material, probably features of granitization. The following is the sequence of events found at the Copperhead.

1. Metamorphism of the Pre-Cambrian.
2. Granitization action, with pegmatitic phases.
3. Invasion by masses of andesite with slight to heavy propylitization.
4. Mineralization.
5. Later andesitic and dioritic intrusions.
6. Continuous faulting and shearing.

The mineralization at Copperhead is classed as Epithermal. The mineral assemblage consists of sulphides of lead and silver, with minor amounts of copper, zinc and mercury. Some free silver is found in the altered, oxide zone. The mineralization accompanies a prominent quartz vein, which varies in width from four to eight feet. In many places the shear zones have been filled with guantities of calcite and barite.

The country rock in the immediate vicinity of the vein system is so varied in lithology and structure that no purpose is achieved by detailed mapping. Mineralization is not confined to any particular contact lithology. Deposition was essentially shallow, as indicated by the Epithermal classification, and in particular by the cinnabar found in the upper workings.

The vein system trends in an East-West direction. It is very steep in attitude. Although the vein system is very well developed throughout its exposed length, the richest ore occurs in high-grade shoots. The production of 140,000 oz. of silver from the upper workings is very impressive, considering the conditions and equipment of the early days. The enclosed map shows the general plan of the vein on the lower level; the section shows the position of the workings, the stopes, the shoots, and the projected ore bodies. Both diagrams illustrate the positions of the faults, with their movements. The plan shows a post-mineralization diorite dike which broke through the vein system. It varies from side to side, and splits the vein in part.

The movement in Fault A took place during mineralization. Although there are some values above the fault, they do not compare with those found below. Rich ore that was under Fault A, and West of Fault B was down-dropped by Fault B, and so will be found in a position under the present drift.

The proposed cross-cut and drift will undoubtedly intersect the vein system at a greater depth, and certainly encounter ore, as this system can be expected to persist downward for many hundreds of feet.

Obviously, the tonnage and tenor of the ore cannot be ascertained. It is recommended that the new cross-cut and drift be carried a

WILLIAM N. BOOTH — Geologist

minimum total of eight hundred feet from the portal, preferably 900 feet. One hundred feet of raise is also desirable.

William N. Booth

WILLIAM N. BOOTH — Geologist

SOURCES OF SUPPLY

4 (b)

1. Flagstaff, 208 miles. Most reasonable prices for powder, fuse, caps.
2. Williams, 156 miles. Timber, $90 per thousand, or $100 per thousand at the mine.
3. Phoenix, 140 miles. Certain equipment and repairs.
4. Kingman, 80 miles. Groceries, minor repairs and supplies.

Blanding, Utah
March 1, 1967

7 (a)

Mr. Keith Redd
Copperhead, Inc.
Wikieup, Arizona

Dear Mr. Redd:

In response to your request for contract construction bids at your Wikieup, Arizona property we would like to submit the following for your consideration:

> Seven by eight foot bare drift work up to 1000 lineal feet at $46.00 per lineal foot exclusive of any timber work.

Timber work either required by the ground or requested by you at cost of $7.85 per foot.

Usual force majure and usual contract provisions to be attendant to the contract including adequate insurance, provisions for State and Federal requirements, etc.

This bid may be considered firm until you are notified by letter to the contrary.

We would request at least two weeks advance notice of the acceptance of the bid.

Very truly yours,

R J Noonan

R. J. Noonan
Lone Butte Mining Company
P. O. Box 143
Blanding, Utah 84511
Tel: 678-3541

C. G. PATTERSON
Mining
P. O. Box 174
CHLORIDE, ARIZONA

11-10-66

Copper Head Mine
Wickiup Arizona
C. alford Frost.
Keith B. Redd-
Box 931 -
Bid - 7X8 Drift - $55.00 Per foot.
Timber 6X6 - 9.80 per foot. Total - $64.80
Licence No. 25448 - Class A. General Engineering.

C. G. Patterson
Box 174
Chloride Arizona

Monticello, Utah
March 27, 1967

Copperhead Inc.
c/o C. Alfred Frost
P. O. Box 247
Monticello, Utah

Dear Mr. Frost:

In reply to your invitation to bid on proposed tunnel of 1010 feet near Wikieup, Arizona. I offer the following bid:

Seven by eight foot clear drift tunnel less timbering--------	$43.50 per lineal foot
Necessary timbering----------	Cost plus 25%
Dewatering when necessary----------	Cost plus 25%

Engineering to be furnished by your company and compliance to state and Federal laws and regulations.

Sincerely,

Clyn P. Young

Clyn P. Young
Monticello, Utah

PERMISSABLE RENTS

7(D)

	Value		Rent Per Month
Bobcat loader	$ 4,800		$ 80.00
2-Ton Shuttle	2,000		33.33
3-Ton "	2,750		45.83
365 LeRoi Compr.	3,000		50.00
Ingersol-Rand Hammer & Leg	800		13.33
Loaders, 340 Int.	2,500		41.67
Blower (12") & Motor	600		10.00
Drill Cart	1,500		25.00
DC-4 Bulldozer	2,000		33.33
		Total	$322.49
Blower Line or Vent Pipe	420		7.00
			329.49

Item 3d

Date 3/19/66

Minerals Assay Laboratory

549 Noland Avenue -:- Grand Junction, Colorado

Copperhead Inc.
% C. Alfred Frost
Box 247, Monticello, Ut.
Phone 242-8021

NAME Mr. Kieth B. Redd ADDRESS Box #237 Monticello, Utah

LAB. NO.	3/18/66 3:PM SAMPLE RECEIVED	Lead % Pb	PERCENT URANIUM % U_3O_8	PERCENT VANADIUM % V_2O_5	OZ. GOLD PER TON	OZ. SILVER PER TON	PERCENT COPPER % Cu
369	Blivin #1					2.9	0.15
370	Copperhead #1 Wall					0.00	
371	Copperhead #2 shoot #1					40.5	
372	Copperhead #3 Fault	4.4				89.7	0.40
373	Copperhead #4 Hi grade	7.5				1911.0	1.37
374	Copperhead #5 Vein at Fault	1.3				45.0	0.21

TOTAL CHARGES $

R E Morris

Shop No. 2193C
File No. 1315 CO

Date 27 OCT 1966

Arizona Assay Office

815 NORTH FIRST STREET
Phone: 253-4001

Phoenix, Arizona 85001
P. O. BOX 1148

VALUES
Latest Quotation

1 oz. Gold.....
1 oz. Silver.....
1 lb. Copper.....
1 lb. Lead.....
1 lb. Zinc.....

THIS CERTIFIES
Samples submitted for assay contain as follows:

COPPER HEAD INC
WICKIEUP ARIZONA

Short Ton ..... 2000 Lbs.
Short Ton Unit ..... 20 Lbs.
Long Ton ..... 2240 Lbs.
Long Ton Unit ..... 22.4 Lbs.

MARKS	SILVER PER TON Ozs.	SILVER PER TON Tenths	VALUE PER TON	GOLD PER TON Ozs.	GOLD PER TON 100ths	VALUE PER TON		TOTAL VALUE PER TON of Gold & Silver		PERCENTAGE				REMARKS
# 1	13	1	$16.37											
# 2	1	8	$2.25											
# 3	4	9	$6.12											
# 4	1	7	$2.12											
# 5	4	4	$5.50											
# 6	19	0	$23.75											
# 7	28	7	$35.87											
# 8	65	6	$82.00											
# 9	352	10	$440.12											

REGISTERED ASSAYER
CERTIFICATE EXPIRES DEC. 31 19
JACK E. A. STONE
JACK STONE REG. No. 479
ARIZONA, U.S.A.

Charges $ 22.50 PAID

Assayer Jack E. A. Stone

ANDY CHUKA, PRINT

Item 3d

Date 5/8/66

Minerals Assay Laboratory

549 Noland Avenue -:- Grand Junction, Colorado

Phone 242-8021

Copper Head, Inc.
% C. Alfred Frost
Box 247
Monticello, Utah

NAME Copper Head Inc. Mr. Kieth B. Redd ADDRESS Box#237 Monticello, Utah

LAB. NO.	SAMPLE RECEIVED 5/3/66 NOON	PERCENT URANIUM % U_3O_8	PERCENT VANADIUM % V_2O_5	OZ. GOLD PER TON	OZ. SILVER PER TON	PERCENT COPPER % Cu
573	Emory Malapia				32.0	
574	Leo Claim			None	0.7	0.48
575	Copper Head#1				4582.0	

TOTAL CHARGES $

P. E. Mottla

Form 13 9c Item 3 C

Copper Head Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah

INSPIRATION CONSOLIDATED COPPER CO.

SMELTING DEPARTMENT

Smelter Lot 6845 Shipper Lot 1 DATE April 25, 1966

BOUGHT OF Copper Head, Inc. Date Received April 19, 1966

Street Box 931 City Wickieup, Arizona

CAR Initial	CAR Number	WET WEIGHT	Moisture %	DRY WEIGHT
ICC	932	27,540	3.10	26,686

N Y QUOTATIONS

Copper (per lb) 36.182¢

Less 4.85¢ = 31.332¢

Silver (per oz.) 128.900¢

Gold (per oz.)

ASSAY and ANALYSES	Copper %	Silver Oz.	Gold Oz.	Silica %	Alumina %	Iron %	Lime %	Sulpher %
	.62	341.33	Tr.	72.6	6.3	2.4	2.5	1.0

PAYMENTS PER TON						DEBITS	CREDITS	Valuation For Freight
Copper	12.40 Lbs. per ton, less	10 # %	2.40 Lbs. at	31.332	per Lb.	$	$ .75	$
Silver	341.33 Ozs. per ton, less	5 %	324.26 Ozs at	128.900¢	per Oz		417.97	
Gold	Ozs. per ton, less	%	Ozs. at		per Oz			
Silica Credit = 72.6 less 67.9 = 4.7 units @ 8¢							.38	
Excess Metal Values	$418.72 - 15.00 = $403.72		First $ 25.00 @ 10%			2.50		
			$378.72 @ 5%			18.94		
Treatment Charge						6.00		
					TOTALS	27.44	419.10	
					Net Value per ton		391.66	

Net Value for Freight Charges, per wet ton $

Royalty to be paid to	13.343	Dry tons at $ 391.66	$ 5,225.92
Account of Grat Wilson	Sampling	tons at	
First Security Bank	Freight		
Monticello, Utah	Trucking		
	AMOUNT DUE SHIPPER		5,225.92
	Less 15 % Royalty Smelter Net		783.89
	NET AMOUNT DUE SHIPPER		$ 4,442.03

Correct [signature] Approved [signature]

Form 13 9c Item 3e

Copper-Head Inc.
% C. Alfred Frost
P.O. Box 247
Monticello, Utah

INSPIRATION CONSOLIDATED COPPER CO.
SMELTING DEPARTMENT

Smelter Lot 7242 Shipper Lot 2 DATE July 21, 1966

BOUGHT OF Copper Head, Inc. Date Received July 14, 1966

Street Box 931 City Wikieup, Arizona

CAR Initial	CAR Number	WET WEIGHT	Moisture %	DRY WEIGHT
ICC	923	30,260	1.00	29,957

N. Y. QUOTATIONS

Copper (per lb.) 36.018¢

Less 4.85 = 31.168¢

Silver (per oz) 128.900¢

Gold (per oz.)

ASSAY and ANALYSES	Copper %	Silver Oz.	Gold Oz.	Silica %	Alumina %	Iron %	Lime %	Sulpher %
	.52	63.06	Tr.	73.3	2.8	3.3	3.0	1.3

PAYMENTS PER TON		DEBITS	CREDITS	Valuation For Freight
Copper 10.40 Lbs. per ton, less 10 # % .40 Lbs. at 31.168 per Lb.		$	$ .12	$
Silver 63.06 Ozs. per ton, less 5 % 59.91 Ozs. at 128.900¢ per Oz.			77.22	
Gold Ozs. per ton, less % Ozs. at per Oz.				
Silica Credit = 73.3 less 34.3 = 39.0 units @ 8¢			3.12	
Excess Metal Values $77.34 - 15.00 = $62.34	First $25.00 @ 10%	2.50		
	$37.34 @ 5%	1.87		
Treatment Charge		6.00		
TOTALS		10.37	80.46	
Net Value per ton			70.09	
Net Value for Freight Charges, per wet ton				$

Royalty to be paid to	14.9785 Dry tons at $ 70.09	$ 1,049.84
The Account of Gnat Wilson	Sampling tons at	
First Security Bank	Freight	
Monticello, Utah	Trucking	
	AMOUNT DUE SHIPPER	1,049.84
	Less 15 % Royalty Smelter Net	157.48
	NET AMOUNT DUE SHIPPER	$ 892.36

Correct [signature]

Approved R F Morrison

COPPERHEAD SAMPLE INFORMATION

Sample No.	LOCATION (Across back unless noted)	TYPE & WIDTH
1	Main Level Portal - Spad A plus 10'	12" Chip
2	" " " - Spad A plus 28'	3.2' Chip
3	" " " - Spad A plus 79'	1.3' Chip
4	" " " - Spad B plus 21'	1.1' Chip
5	" " " - Spad B plus 81'	2.0' Chip
6	" " " - Spad C plus 30'	1.9' Chip
7	" " " - Spad C plus 39'	2.2' Chip
8	" " " - Spad C plus 55' sub-level	1.0' Chip
9	" " " - Spad D plus 18' N Rib	0.8' Chip

Item 2. — Return this copy

(C.A) Fred Frost
Monticello, Utah

MINING LEASE WITH OPTION TO PURCHASE

THIS AGREEMENT, made and entered into this 4th day of November, 1965, by and between Grat Wilson and Louise Wilson, husband and wife, of Wikieup, Arizona, (hereinafter designated "Lessor") and Keith B. Redd and C. Alfred Frost of Monticello, Utah, (hereinafter designated "Lessee").

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

W I T N E S S E T H :

WHEREAS, Lessor is the owner of certain unpatented lode mining claims situated in the Aubrey Mining District, Mohave County, Arizona, described on schedule A hereto attached (hereinafter designed as "Mining Claims") and,

WHEREAS, the parties are mutually desirous of entering into a mining lease and an option to purchase in accordance with the terms and conditions hereinafter expressed.

ACCORDINGLY, in consideration of the mutual promises, covenants and conditions hereinafter set forth and other good and valuable consideration, the receipt and adequacy of which is acknowledged, the parties have agreed:

I.

GRANT OF LEASE

1.1 Lessor has agreed and by these presents does hereby lease to Lessee, subject to the terms and conditions hereinfter expressed, the mining Claims.

1.2 The within lease is granted for the purpose of mining, development and exploitation of the above described Mining Claims, any and all mineral values therein contained and for all purposes and activities reasonably incident thereto.

1.3 Concurrently with the execution and deliver hereof Lessee has paid Lessor the sum of One thousand five hundred Dollars ($1,500.00) and Five Thousand Dollars ($5,000.00) and upon the signing of this agreement the sum of Thirteen thousand and five hundred ($13,500.00) as the consideration for the granting of the withing Mining Lease with option to Purchase, the receipt whereof is hereby acknowledged.

11.

TERM

2.1 The term of this lease shall be the time required to pay for properties under terms set forth in the Lease and Option.

111.

ROYALTY

3.1 Lessor has reserved and there shall be paid Lessor a royalty of ten percent (10%) of the net smelter returns received from the sale of all ores mined, removed and sold from the mining claims to a Smelter or other ore buyer as crude ore which net smelter returns shall include all amounts received by Lessee from the sale thereof excluding the cost of transporting the ore from the mine to the smelter or ore buyer., subject however to provisions contained in Exhibit B, which is hereby made a part of this lease & Option3.2 Royalty due Lessor shall be paid on or before fifteen (15) days from the end of each calendar month with respect to all crude ore or Concentrates sold and for which Lessee has received payment during the particular calendar month.

1V.

MANNER OF PERFORMING WORK

4.1 All of the work which may be performed by Lessee hereunder shall be performed in a good and workmanlike manner and in accordance with sound engineering and geological practice. All of the work and activities of Lessee hereunder, shall be performed in a manner so as to obtain the maximum economic return from the Mining Claims and in such manner required to maintain such property and all parts thereof which may be developed hereunder as workable minig property.

4.2 Lessee shall comply with all laws, rules and regulations pertaining to any operations or activities hereunder of Federal, State and Local authorities, and on request of Lessor furnish supporting evidence of such compliance. Without limitation of the generality of the foregoing, Lessee shall, (1) carry, at his expense, Workmen's Compensation and Occupational Disease Disability Insurance covering all persons employed or engaged to work or perform services upon or with respect to the Mining Claims, and before commencing any work hereunder, shall furnish Lessor a certificate of the insurance carrier of such coverage, and, if obtainable, an agreement of such insurance carrier that such insurance will not be cancelled without first giving Lessor at least ten (10) days' written notice of intention to cancel; (2) pay any taxes or contributions and make any deductions from payrolls required by any applicable Federal or State Income Tax, Social Security, or Unemployment Benefit Laws.

4.3 Lessor and his agents or representatives, authorized in writing, shall, at their own risk, have the right at all reasonable times, when accompanied by a representative of Lessee, to enter into and upon the Mining Claims and the workings therein for the purpose of inspecting the same, and for ascertaining whether the terms and conditions hereof are being carried out and performed by Lessee.

4.4 Lessee will keep accurate records of his operations hereunder, including the amounts of ore taken from the Mining Claims and the assays thereof; said records shall be accessible for inspection by the Lessor at all reasonalbe times. Lessee will prepare maps of all mining operations on the Mining Claims, showing thereon all workings, excavations and the location of all ore bodies which may be discovered, which maps shall be available for inspection by Lessor at all reasonable times.

V.

PROTECTION FROM LIENS AND INDEMNITY

5.1 Lessee shall promptly pay all bills and accounts for labor performed and supplies and materials furnished in and for operations under this Lease and shall not allow any claim or lien to be effectually made or asserted against the Mining Claims.

5.2 Lessee shall forthwith post and thereafter keep posted in conspicuous places at entrances to the Mining Claims such notices as may be necessary adequately to notify all persons who may come in or upon said Mining Claims that the same are held by Lessee under lease from Lessor and that Lessee is and shall be liable for all labor performed and supplies and materials utilized by it in and upon such premises, and that Lessee, and not Lessor, will be solely responsible for all debts and expenses incured in operatiâns under this lease, all as may be required by the Statutes of the State of Arizona.

5.3 Lessee shall held Lessor harmless and fully indemnify him against all claims and demands of any kind or nature which may be made upon him or against the Mining Claims, for, or on account of any debt or expenses incurred by Lessee, as well as from and against any and all acts, transactions or omissions of Lessee, its agents or employees, and Lessee shall defend and save Lessor harmless and fully indemnify him against any liablity or asserted liability for or on account of injury to or death of any person or damage to any property sustained during the continuance of this Lease alleged to have resulted from any act or omission of Lessee, his agents or employees, or the unsafe condition of the Mining Claims. Lessee agrees to purchase liability insurance indemnifying both Lessee and Lessor in the minimum amount of $50,000/$100/000 in the event Lessee or Lessor shall be found liable as set

forth in this paragraph.

VI.

TAXES

6.1 So long as the within Lease shall remain in force and effect Lessee shall pay when due all taxes assessed against his personal property and improvements placed upon the Mining Claims and all taxes levied against the Mining Claims as nonproducing properties. Any taxes measured or calculated on the basis of production from the Mining Claims shall be apportioned between and paid by the parties hereto in accordance with the proportionate amounts received for the sale of such production as determined pursuant to Section III hereof. In the event of termination of this Mining Lease for any reason, irrespective of any provisions elsewhere contained herein, if any such taxes have accrued but are not then payable Lessee shall remain responsible for payment at the time the same become due and payable of Lessee's percentage (determined as hereinabove in this Section provided) of that portion of such taxes as is based upon ore produced by Lessee from the Mining Claims.

VII.

LOCATION OF ADJACENT CLAIMS

7.1 Should Lessee locate any unpatented mining claims while this Lease shall remain in effect which are adjacent to the Mining Claims referred to in the attached Exhibit "A", such unpatented claims shall be located in the name and for the benefit of Lessor, provided, however, that any and all such unpatented claims shall become subject to this Mining Lease with Option to Purchase, and shall be considered for all purposes as a part of the claims included in the term the "Mining Claims" as used herein.

VIII.

ANNUAL ASSESSMENT WORK

8.1 Lessee agrees that during each assessment year during the term of this lease it will perform upon or for the benefit of each of the Mining Claims (including those located under the terms of paragraph VII hereof) which are unpatented, assessment work of a character and value reasonably expected to satisfy the requirements of the mining laws of the United States and of the State of Arizona and will file necessary affidavits and proofs thereof annually on or before the 1st day of August.

IX.

OPTION TO PURCHASE

9.1 Lessor has agreed and by these presents does hereby grant to Lessee, its legal representatives, heirs and assigns and Option to Purchase the Mining

Claims for a total purchase price of Two hundred fifty thousand ($250,000) Dollars. All payments paid to Lessor hereunder, whether as consideration for the granting of this lease, royalties or otherwise, shall be applied and credited against the said purchase price.

X.

TITLE

10.1 Lessor makes warranty of tile, with respect to the unpatented mining claims listed under Exhibit "A" herein, Upon full and faithful compliance with each and all of the terms of this agreement by the Lessee, Lessor agrees to deliver to Lessee a Quitclaim Deed to the Mining Claims.

XI.

FORFEITURE

11.1 The failure of Lessee to make or cause to be made any of the payments herein provided for or to keep or perform any obligation or agreement required by it the terms and provisions of this Lease, shall, at the election of Lessor, work a forfeiture hereof; provided, however, that in the event of a defaulht on the part of Lessee, and the election of Lessor to terminate this agreement on account thereof, Lessor shall give Lessee a written notice of his intention to declare a forfeiture of this agreement and to terminate the same on account thereof, specifying the particular default or defaults relied upon, the Lessee shall have sixty (60) days after receipt of such notice in which to correct or cure such default or defaults, in which event, there shall be no forfeiture thereof; and provided further, that in the case of default of the payment of royalties, Lessee shall have only ten (10) days after receipt of such notice in which to make good such default or defaults. Waiver or failure to give notice of a particular default or defaults shall not be construed as condoning any subsequent default.

XII.

RIGHT OF SURRENDER

12.1 Notwithstanding any provision herein to the contrary, Lessee may at any time, upon thirty (30) days prior written notice to Lessor, surrender its rights under this Lease and thereby cancel and terminate this lease. In order to exercise such right of surrender Lessee shall supply Lessor with a recordable instrument, in proper form, terminating and surrendering to Lessor any rights and interest which Lessee may have obtained under this Lease. Upon such cancellation and termination Lessee shall be under no further obligation whatsoever to Lessor, except for the making of payments which have already accrued as of the date of such cancellation and termination.

XIII.

FORCE MAJEURE

13.1 The breach or failure to perform any of the covenants or conditions hereof on the part of Lessee shall not be grounds for cancellation or termination or forfeiture when such breach or failure to perform is caused or compliance is prevented by severe weather conditions, explosions, unusual mining casualty, fire, flood or any Civil or Military Authority, insurrection, riots, strikes, Acts of God, or from any regulation or restriction of Governmental Authority, or on account of any eventuality beyond the reasonable control of Lessee, while such circumstances or conditions shall continue to exist, provided, however, that Lessee shall notify Lessor in writing specifying the conditions so existing and Lessee shall, in such event, use all reasonable diligence to remove such preventing cause and upon its removal shall thereafter promptly resume work. In no event, however, will Lessee be relieved of the obligation to pay royalties and taxes required of it hereunder.

XIV.

REMOVAL OF PERSONAL PROPERTY

14.1 Lessee shall have a period of ninety days after a valid forfeiture, cancellation or other termination of this Agreement to remove from the Mining Claims, all warehouse stocks, merchandise, materials, tools, equipment, supplies and all machinery, trade fixtures and personal property erected or placed in or upon the Mining Claims by Lessee, provided, however, that Lessee shall not remove any timbering or other underground structures required for support of any underground drifts, tunnels or other workings. Lessee shall be entitled to remove any underground track, rails, water or air pipelines or electrical lines installed by it except for such thereof as may be installed in the main haulage tunnel.

14.2 Upon termination of this Lease and removal of personal property as above provided, Lessee will promptly deliver to Lessor the Mining Claims with all broken ores of whatever description, either above ground, in stopes, raises or chutes with all shafts, main drifts, crosscuts and raises and other essential working, thoroughly drained, clear of loose rocks, waste and rubbish and ready for immediate use, except workings which Lessee has been relieved of the obligation to keep open in accordance with the provisions hereof. Upon such termination Lessor shall have the right to enter upon and into the Mining Claims, repossess and enjoy the same.

XV.

NOTICES

15.1 Any notice herein provided to be given to Lessor shall be sufficient if given in writing by certified or registered mail addressed to:

Grat Wilson
Wikieup, Arizona

or to such other address as Lessor may from time to time designate to Lessee in writing.

15.2 Any notice herein provided to be given to Lessee shall be sufficient if given in writing by certified or registered mail addressed to:

C. Alfred Frost
Monticello, Utah

or to such other address as Lessee may from time to time designate to Lessor in writing.

15.3 Service of notice shall be deemed effective and complete on the date of posting and mailing in accordance herewith.

XVI.

ASSIGNABILITY

16.1 Lessee shall have the right to assign this Agreement, in whole or in part, or to sublease all or portions of the Mining Claims, at any time during the term hereof, or any renewals or extensions thereof, provided, however, that any assignee or sublessee shall be bound by the terms and conditions of this Agreement to the same degree and extent as is Lessee.

XVII.

BENEFIT AND LESSER INTEREST

17.1 This Mining Lease With Option to Purchase Agreement shall be binding upon and inure to the benefit of the parties hereto, their legal representatives, successors, heirs and assigns.

17.2 If Lessor owns a less interest in the Mining Claims than the entire and undivided mineral estate therein, then the royalties and any payments provided herein shall be paid to Lessor only in the proportion which his interest bears to the whole and undivided mineral estate.

EXECUTED THIS 4th day of November, 1965.

Grat Wilson
GRAT WILSON, LESSOR

Louise Wilson
LOUISE WILSON

C. Alfred Frost
C. ALFRED FROST

Keith B. Redd
KEITH B. REDD

EXHIBIT A

These certain unpatented mining claims, including the amended locations thereof, situate in the Aubrey Mining District, Mohave County, Arizona, the names of which and the book and page where the original location notices thereof may be found of record in the Office of the County Recorder of said Mohave County, Arizona, being as follows, to-wit:

NAME	BOOK OF MINES	PAGE
TRAIL	5-V	21
COPPER HEAD	5-U	110
COPPER HEAD # 2	5-V	19
COOPER HEAD # 3	5-V	20
COOPER HEAD # 4	5-V	167
COOPER HEAD # 5	5-V	168
COOPER HEAD # 6	5-V	169
COPPER HEAD # 7	5-V	170
COPPER HEAD # 8	5-V	171
COPPER HEAD # 9	5-V	172
COPPER HEAD # 10	5-V	173
COPPER HEAD # 11	5-V	174
COPPER HEAD # 12	5-V	175
COPPER HEAD # 13	5-V	176
COPPER HEAD # 14	5-V	177
COPPER HEAD # 15	5-V	178

The amended location notices on the above named mining claims may be found of record in the office or the County Recorder of said Mohave County, Arizona, as follows, to-wit:

NAME	BOOK OF MINES	PAGE
COPPER HEAD AMENDED	6-A	165
COPPER HEAD # 2, AMENDED	6-A	166
COPPER HEAD # 3, AMENDED	6-A	167
COPPER HEAD # 4, AMENDED	6-A	168
COPPER HEAD # 5, AMENDED	6-A	169
COPPER HEAD # 6, AMENDED	6-A	170
COPPER HEAD # 7, AMENDED	6-A	171
COPPER HEAD # 8, AMENDED	6-A	172
COPPER HEAD # 9, AMENDED	6-A	173
COPPER HEAD # 10, AMENDED	6-A	174
COPPER HEAD # 11, AMENDED	6-A	175
COPPER HEAD # 12, AMENDED	6-A	176
COPPER HEAD # 13, AMENDED	6-A	177
COPPER HEAD # 14, AMENDED	6-A	178
COPPER HEAD # 15, AMENDED	6-A	179

EXHIBIT B

1.B Lessee agrees that 15% royalties will be paid on the first Seventy-five thousand ($75,000), the Twenty thousand ($20,000) option already paid will apply on this Seventy-five Thousand ($75,000) after this original Seventy-five Thousand ($75,000) is paid, then the royalty will drop to 10% as provided in lease. In the event a mill is installed the royalty will be 10%.

2.B Lessor agrees consent to and sign a Government Loan Application if applied for.

3.B Lesse agrees to perform two-hundred sixty-four (264) work days per year.

4.B Lessor agrees to execute a quit claim deed to claims listed on Exhibit A and put same in escrow at the Monticello Branch of the First Security Bank of Utah, Monticello, Utah.

STATE OF ARIZONA)
) SS.
COUNTY OF MOHAVE)

The foregoing lease and option to purchase with Exhibits A and B attached was acknowledged before me this 4th day of November, 1965, by GRAT WILSON and LOUISE WILSON, husband and wife, lessors, and KEITH B. REDD and C. ALFRED FROST, lessee, therein mentioned.

Lewis L. Wadsworth
Notary Public

My commission expires
September 17, 1967.

Filed and Recorded at Request of L. L. Wallace atty
NOV 10 1965 05 Min. Past 10 o'clock a. M.
BOOK 84 DOCKET NO. 85, Page 357-365
Records of Mohave County, Arizona.
By _____ Deputy Recorder
Recorder

Ret: C. Alfred Frost
Monticello, Utah

157908

$7.75

INDEXED
PHOTO COPIED

Maps 6621

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
10/18	Peterson	120
10/18	Kirkham	120
"	Johnson	110
10/19	Flynn	
		110
		120

AIRMAIL

Copper Head, Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah 84535

OCT 24 1967

Re: OME-6621 (Silver)
Copper Head, Inc.
Copper Head Mine
Mohave County, Arizona

Gentlemen:

Careful study of your application for financial assistance to explore the subject property and of other information available to us indicates that the probability of disclosing significant ore reserves on the property is not sufficiently promising to justify Government participation in the proposed exploration. Although lenticular bodies of ore-grade material may be found in and along the Copperhead vein, their small size and irregular distribution indicates that further exploration of this type of deposit is not warranted. Under the circumstances, we regret to inform you that your application for assistance is denied.

We wish to thank you for your interest in the minerals exploration program and for bringing your property to our attention.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
Mr. Peterson
130
Region III

ECPeterson/bsl 10/18/67

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
10/18	Kirkemo	120
10/19	Johnson	120
10/19	Lippa	110
		220

Memorandum

To: The File

From: E. C. Peterson

Subject: OME-6621 (Silver)
Copper Head, Inc.
Copper Head Mine
Mohave County, Arizona

Justification for Denial of Application

In his examination report the field examiner recommends that the subject application for assistance be approved and an exploration contract prepared. However, after carefully reviewing the report and data submitted by the Applicant, I recommend that the application be denied for the following reasons.

1. The proposed work of testing the downward continuation of a known ore-body only 100 feet below old mine workings is more in the nature of development than exploration and as such is not eligible for OME assistance.

2. Available geologic data indicates that some high-grade silver occurrences may be found in small lenticular bodies scattered along the length of the Copperhead vein, but the possibility of discovering significant ore reserves on the property is considered remote. Indications are that the target area is approximately the same size as the previously mined block which yielded about 140,000 ounces of silver.

Under these circumstances, it appears that Government participation in the proposed work is not warranted, and I therefore, recommend that the application be denied.

I have discussed this recommendation with the Field Officer and he concurs.

Edward C. Peterson

Edward C. Peterson

cc: Director Rdg. File
Division File
Econ. Geol. File
OME Docket
Ome Reading File
Mr. Peterson
130

ECPeterson/bsl 10/18/67

23263

IN REPLY REFER TO:

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

Office of Minerals Exploration

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 16 1967

INITIALS	CODE
gla	130
	120 m
Kg	~~110~~
	130 P

October 13, 1967

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME-6621 (Silver)
Copper Head, Inc.
Mohave County, Arizona

Transmitted herewith is the original of the field examination of the subject application by Robert U. King recommending approval of a modified exploration program estimated to cost $51,331.74. The field officer concurs with the recommendations made in the report.

Enclosed are two copies of assignment of lease transferrring rights of Keith B. Redd and C. Alfred Frost to Copper Head, Inc., as requested by OME, Washington.

Experience background concerning the project supervisor, in the event of a contract, Mr. F. J. Denton, Wickieup, Arizona, is attached to the report as Appendix A.

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

REGION III

On-site Report

OME DOCKET 6621 (SILVER)

COPPER HEAD, INC.

MOHAVE COUNTY, ARIZONA

By

Robert U. King

October, 1967

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Conclusions and recommendations---------- 2

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Fixed Unit cost schedule---------- 10

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Illustrations

Figure 1.--Property Map. Copperhead Mine, Mohave County, Arizona 1

Figure 2.--Vertical section, Copperhead Mine, showing proposed drifting---------- 4

Figure 3 -- Map showing existing mine workings and proposed crosscutting and drifting, Copperhead Mine, Mohave County, Arizona---------- 6

REPORT OF EXAMINATION

OME-6621 (SILVER)

COPPER HEAD, INC.

MOHAVE COUNTY, ARIZONA

Introduction

Messrs. C. Alfred Frost and Keith B. Redd, owner-partners of Copper Head Inc., applied to the Office of Minerals Exploration for financial assistance to explore the Copper Head mine for silver. A field examination was requested by OME, Washington, and was made by Robert U. King on June 20, 1967, accompanied by Mr. F. J. Denton, project supervisor for the applicant.

During and subsequent to the examination, the applicant agreed to eliminate the proposed 100 foot of raising and to change the bearing of the initial crosscutting from S. 55° W. to S. 80° W. in order to begin the exploration of the Copper Head vein on the 200 level at a more favorable point on the vein, and to shorten the required tunnelling footage to a total of 900 feet. The applicant company proposes to obtain a performance bond in lieu of a lien and subordination agreement on 1/2 of Copper Head No. 8, Copper Head, and Copper Head No. 4 claims. Because the proposed exploration is proximate to the boundaries of these claims it is recommended that the Copper Head No. 12, Copper Head No. 13, and the remaining 1/2 of Copper Head No. 8 be included in the property (claims) subject to subordination or bond (fig. 1). The applicant presumably will agree to the addition of the named claims.

The Copper Head mine is in the Aubrey mining district, Mohave County, Arizona, about 7 miles south-southwest of the town of Wickieup.

The property, consisting of 15 unpatented claims, is in the SE 1/4, sec. 19, SW 1/4, sec. 20, NE 1/4, sec. 30, T. 15 N., R. 13 W., G and SRM. These 15 claims and their amended location notices are recorded as follows in the office of the Mohave County Recorder, Kingman, Arizona:

NAME	BOOK OF MINES	PAGE	NAME	BOOK OF MINES	PAGE
Trail	5-V	21	----	----	----
Copper Head	5-U	110	Copper Head Amended	6A	165
Copper Head #2	5-V	19	Copper Head #2 Amended	6A	166
Copper Head #3	5-V	20	Copper Head #3 do	6A	167
Copper Head #4	5-V	167	Copper Head #4 do	6A	168
Copper Head #5	5-V	168	Copper Head $5 do	6A	169
Copper Head #6	5-V	169	Copper Head #6 do	6A	170
Copper Head #7	5-V	170	Copper Head #7 do	6A	171
Copper Head #8	5-V	171	Copper Head #8 do	6A	172
Copper Head #9	5-V	172	Copper Head #9 do	6A	173
Copper Head #10	5-V	173	Copper Head #10 do	6A	174
Copper Head #11	5-V	174	Copper Head #11 do	6A	175
Copper Head #12	5-V	175	Copper Head #12 do	6A	176
Copper Head #13	5-V	176	Copper Head #13 do	6A	177
Copper Head #14	5-V	177	Copper Head #14 do	6A	178
Copper Head #15	5-V	178	Copper Head #15 do	6A	179

The above-listed claims are held by the applicant Company by assignment of a lease and option to purchase agreement. A performance bond is to be submitted by the applicant in lieu of subordination agreement in the event a contract is executed.

Conclusions and Recommendations

It is concluded that there is a good chance of discovering significant silver ore, along the downward continuation of an ore shoot on the Copper Head vein, by the applicant's proposal to crosscut on the 200 level 450 feet to the Copperhead vein and to drift westerly 450 feet along the Copper Head vein.

I recommend the modified program estimated to cost $51,331.74 be approved.

Geologic Summary

The rocks that make up the main mass of the southern part of the Hualapai Mountains include granitic rocks, pegmatite, gneiss, and schist of Precambrian age (Schrader, 1909[1/]). Quartz-hornblende gneiss mixed with biotite schist underlies the Copper Head mine. Thin irregular dikes of pegmatite cut the country rocks in the vicinity of the mine. The foliation of the rocks trends easterly and for the most part dips vertically to steeply south. Massive, medium to coarse grained biotite crops out above one half mile to the north of the mine.

The Precambrian rocks are cut by andesitic to dioritic dikes of probable Cretaceous or Tertiary age. A thin east-northeast trending diorite dike 6 inches to one foot wide is exposed in the main adit (100 level) from 130 feet to the face. The dike is along the footwall of the Copperhead vein from 130 feet to 200 feet, and in the central part of the vein from 200 feet to the face of the drift.

The ore minerals of the Copperhead vein consist of silver-bearing galena, sphalerite, with small amounts of chalcopyrite. Some mercury is reported to accompany the sulfides. The gangue minerals are quartz, pyrite, clay minerals, carbonate and barite, and silcified and argillized wall rocks. The ore occurs in lenticular bodies 5 to 20 feet long by one to 3 feet wide, distributed along the entire exposed length of the Copperhead vein on the 100 (main level, fig. 2), but in considerably larger elongate lenticular bodies where they are close to the foot wall of the flat fault. They plunge from 25° to 45° westerly; their attitude controlled at least in part by the dip of the flat fault. The Copper Head vein is known to continue beyond the flat fault, but no ore has been found on the hanging wall side of the fault.

1/ Schrader, F. C., 1909, Mineral deposits of the Cerbat Range, Black Mountains, and Grand Wash Cliffs, Arizona: U. S. Geol. Survey Bull 397.

The Copperhead vein is a mineralized fracture zone that is from 6 inches to 5 feet wide trending generally easterly and parallel to the strike of the gneiss and schist, but in detail the strike of the vein ranges from N. 70° E. to S. 70° E. It dips from 75° to 80° south. Two faults are exposed in the mine workings (fig. 2). One, a flat-lying fault in part at least post mineral, strikes N. 15° to 20° E. and dips 25° to 30° west. It crosses the Copper Head vein at a high angle, and on the 100 level it displaces the vein south about 10 feet. The second fault strikes S. 70° E., and dips 80° south. It cuts the flat fault almost at right angles to the strike and offsets the flat fault in a normal sense with an apparent displacement of about 50 feet. The steep fault cuts the Copper Head vein at a very low angle and displaces it about 10 feet. From the limited exposures it is not clear whether the displacement of the Copper Head Vein on the steep fault is due to normal movement or whether there is also a horizontal component of fault displacement.

The grade of the Copperhead ore in the upper levels is indicated by the reported production of 140,000 oz. of silver during the 20 year period from 1892 to 1912. This ore is said to have averaged 700 oz. Ag per ton and presumably came from the two stopes above the 100 level, which together must have yielded 200 to 250 tons of ore. Assuming a stope width of 2 to 3 feet, the stope dimensions shown on the map are within reason.

The grade of ore on and immediately above and below the 100 level is indicated by the analyses of samples and ore lots in the following table:

SAMPLE NUMBER	LOCATION	TYPE OF SAMPLE	WIDTH IN INCHES	Ag/oz/ton
	Main tunnel (100 level except as noted)			
1	Portal + 10 feet	chip	12	13.1
2	Portal + 30 feet	do	38	1.8
3	Portal + 80 feet	do	16	4.9
4	Portal + 160 feet	do	13	1.7
5	Portal + 215 feet	do	24	4.4
6	Portal + 265 feet	do	23	19.0
7	Portal + 275 feet	do	26	28.7
8	Portal + 290 feet (floor of drift)	do	12	65.6
9	Portal + 330	do	10	352.1
371	(CH#2) Same as 5, Ore shoot in back of 100 level adit	Grab?	18	40.5
372 1/	Bottom of winz of upper level workings, in footwall of steep fault	Grab?		89.7
373 2/	Portal + 320 feet, 12 feet above 100 level in footwall of flat fault	Grab?	30	1911.0
374 3/	Main vein at steep fault	Grab?	----	45.0
575	Same as 9, Copperhead vein on north wall of main drift, across back of drift, close to flat fault.	Grab		4582.0
Lot # 6845	Portal + 325 feet from ore shoot in back of main tunnel (100 level)		4" streak	341.33
Lot # 7242	Ore shoot in floor of main tunnel, portal + 265 ft.			
	Cu: 0.52% Au: Trace	15 ton lot		63.06

1/ # 372 contains 4.4% Pb, and 0.48% Cu.

2/ # 373 contains 7.5% Pb, and 1.37% Cu.

3/ # 374 contains 1.3% Pb, and 0.21% Cu.

Reserves

No significant measured or indicated reserves of silver ore exist in the Copper Head mine, but it is inferred that reserves of silver ore equal in quantity to that mined from the upper levels and containing from 50 to 1000 oz Ag per ton are likely to be present in the Copper Head vein below the 100 (main) level drift primarily in the vinity of and underlying the flat fault. In addition small quantities of ore are likely to be discovered along the Copper Head vein on the proposed 200 level drift up to 500 feet or more distant from the flat fault.

Exploration targets

The purpose of the proposed work is to explore the Copper Head vein 100 feet below the existing adit. The analyses shown on Table 1 indicate that the quality and quantity of ore generally increases toward the flat fault. The plunge of the major ore shoot, mined for the upper level, is from 25° to 30° to the west, approximately along the foot wall of the flat fault, giving the most favorable target area from about 450 feet to 900 feet west of the proposed portal site (fig. 2).

Proposed Exploration

Cross cut not more than 450 feet S. 80° W. from the proposed portal site as shown on Figure 3 to an intersection with the Copper Head vein at point "X" and drift on approximately the same bearing not more than 450 feet on or along the Copper Head vein. Not more than 100 feet of crosscutting may be applied to drifting with prior approval of OME.

Estimated Time Schedule

1. Mobilization and demobilization----------	2 weeks
2. Rehabilitation - none	
3. Drifting and crosscutting 900 feet at 7 foot/day	
5 days/week=----------	24 weeks
Total work time	26 weeks
(or 6 months)	
Allowance for delays----------	4 weeks
Total time for project----------	30 weeks
(or 7 months)	

Estimated Costs

7a. 1. Independent contracts	
(Lowest of 3 bids)	
Drifting 900 feet of drift 7 x 8 clear, trackless, Clyn	
P. Young @ $43.50/ft---------- ------	$39,150.00
Timbering est @55% of drift require timber $6.75	
ft. x 500 feet----------	3,375.00
b. Personal Services	
1. Outside consultant:	
$75/day 1 trip/2 weeks for 26 weeks = 13 trips @ $75/	
trip----------	975.00
Per Diem $16/day x 13 days----------	208.00
Mileage @ $0.12/mi. x 13 trips x 200 miles----------	312.00
	$1495.00
1. Geologist-Engineer Supervisor	
@ $600.00/mo. x 6 months----------	3600.00
Total payroll----------	3600.00

c. Operating material and supplies---------- none

To be furnished by contractor

d. Operating equipment to be furnished by the applicant on rental basis.

Equipment used, good condition, on the ground, estimated present fair market value and rental/month: 1/60 of value/new:

Item	Present Value	Mo. cost
1 Loader "Bobcat"	$4,800	$80.00
1 2-Ton shuttle	2,000	33.33
1 3 Ton shuttle	2,750	45.83
1 Le Roi Compressor 365cfm	3,000	50.00
1 Drill. feed leg, Ingersol Rand	800	13.33
1 Loader, 340 International	2,500	41.67
1 Blower 12" and motor	600	10.00
1 Drill Cart	1,500	25.00
1 Bulldozer DC-4	2.000	33.33

Although not asked for, it is deemed that the following items of equipment are necessary for the work and should be included:

Vent pipe (metallic) 12" with couplings and hangers @ $2.00/ft x 900' x 1/60	$30.00
Air Line 2" pipe w/fittings @ $.80/ft. x 900' x 1/60	12.00
Water Line 1" pipe w/fittings @ $.60/ft x 900' x 1/60	9.00
1 Receiver	10.00
1 Pressure Water tank	10.00
	$403.49
Total rental $403.49/mo x 6 mo.----------	2420.94

e. Initial rehabilitation and repairs---------- none

f. New Buildings---------- none

g. Miscellaneous

? sample

Assaying

Au ?

50 samples Ag + Ag @ $3.00 each ----------$150.00

50 samples Cu @ $2.00---------- 100.00

50 samples Pb @ $2.00----------100.00

Total assaying----------350.00

Office expense @ $50.00/month x 6 months----------300.00

FICA, Liab. Ins., Workmen's Comp @ 17.8% of payroll:

17.8% x $3,600----------640.80

Total miscellaneous----------1,290.80

Summary of costs

Drifting and crosscutting (contract)----------39,150.00

Timbering (contract)---------- 3,375.00

Supervision

Outside consultant---------- 1,495.00

Supervisor-Engineer---------- 3,600.00

Equipment (rental)---------- 2,420.94

Miscellaneous----------1,290.80

Total cost of project ----------51,331.74

Government participation @ 75%----------$38,498.84

Fixed Unit Cost Schedule

Drifting and crosscutting		
900 feet @ $46.19/ft	$41,571.00	
Timbering		
500 feet @ $6.75/ft	3,375.00	
Outside Consultant		
13 days @ $75/day	975.00	
Per Diem 13 days @ $16/day	208.00	
Travel expense 2600 miles @ $0.12/mile	312.00	
Supervision		
6 months at $600.00/month	3600.00	
Assaying		
50 Au + Ag assays @ $3.00/sample	150.00	
50 Cu assays @ $2.00/sample	100.00	
50 Pb assays @ $2.00/sample	100.00	
Office expense 6 months @ $50.00/month	300.00	
FICA, etc. @ 17.8% of payroll:		
6 months at $107.00/mo.	642.00	
Total		$51,330.00

Appendix A

Operating experience and background of Mr. F. J. Denton--project supervisor for applicant company to accompany Report of Examination OME-6621.

1928 - 1930 - Miner - Rocky Bar district -- Idaho engaged in placer mining at Featherville.

1931 - Miner - for St. Joe Lead Company, Atlanta district.

1932 - 1934 - Independent miner -- prospector.

1935 - 1942 - Miner - repairman, underground specialist, in the Coeur d'Alene district, Idaho -- working for Bunker Hill Mining and Concentrating Co., and Inar Norgaard, Pine Creek area.

1942 - 1947 - Armed services.

1947 - 1952 - Independent miner - Owner of property explored for Pb-Zn under DMEA contract.

1952 - 1955 - Miner, shaft, raise, tunnel work.

1955 - 1966 - Uranium property owner and operator, Blanding area, San Juan Co., Utah, operating mines, and supervising mining operations of 10 to 15 employees.

U.S. Geological Survey
Office of Minerals Exploration

OME 6621
Copperhead

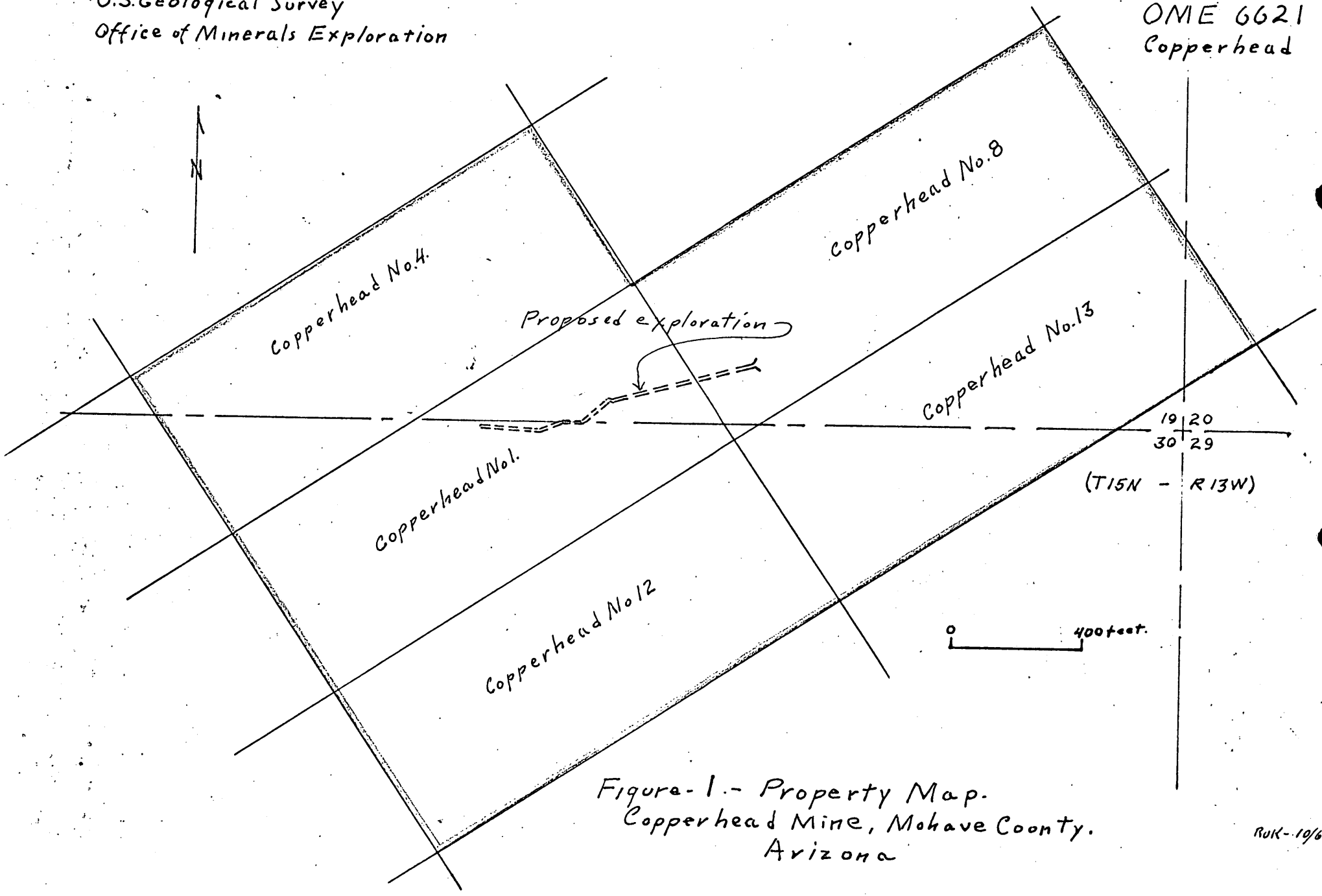


Figure-1.- Property Map.
Copperhead Mine, Mohave County.
Arizona

RUK-10/67

U.S. Geological Survey
Office of Minerals Exploration

OME 6621
Copperhead

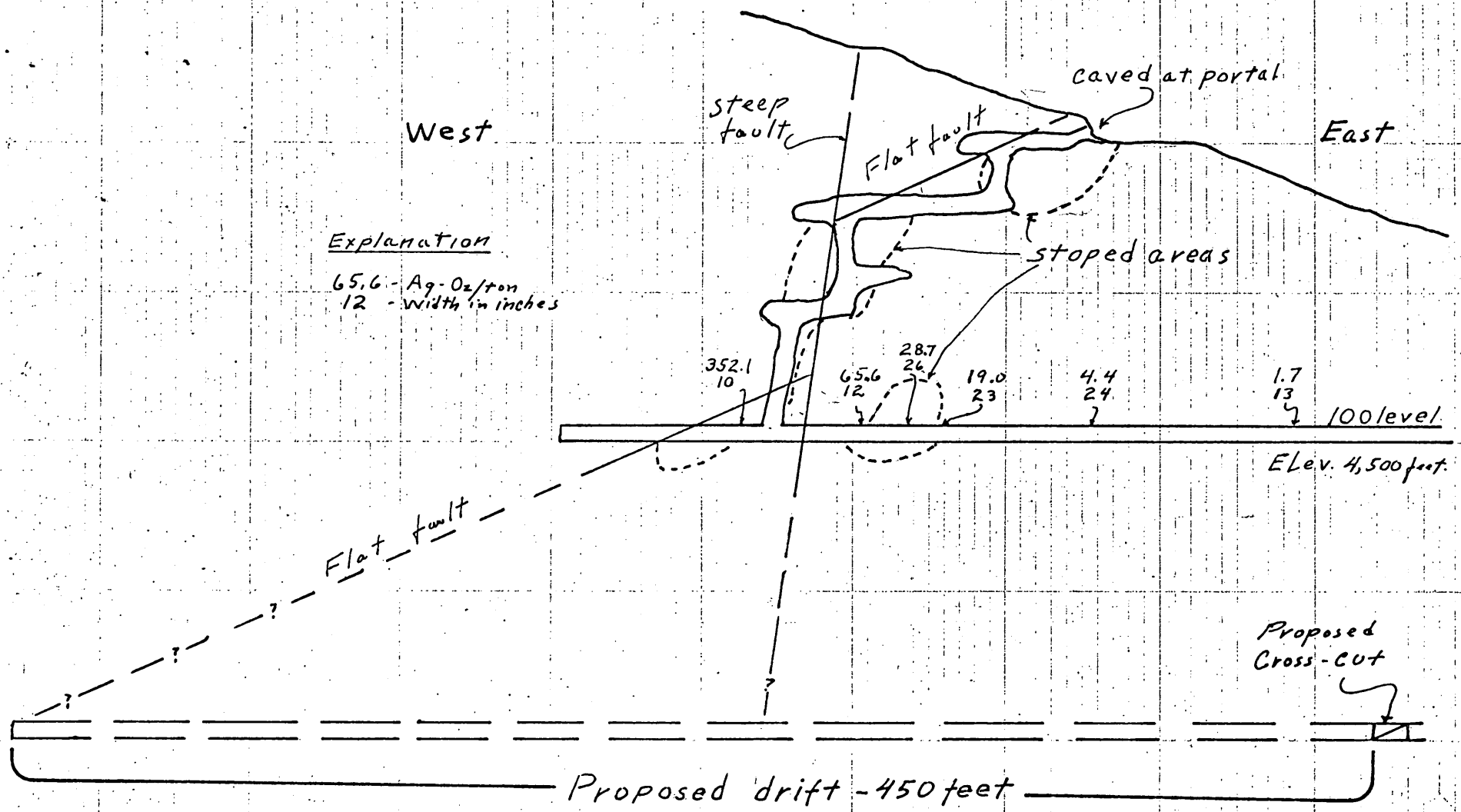


Figure 2-Vertical section, Copperhead Mine, showing proposed drifting.

0 50 100 feet

RUK 10/67

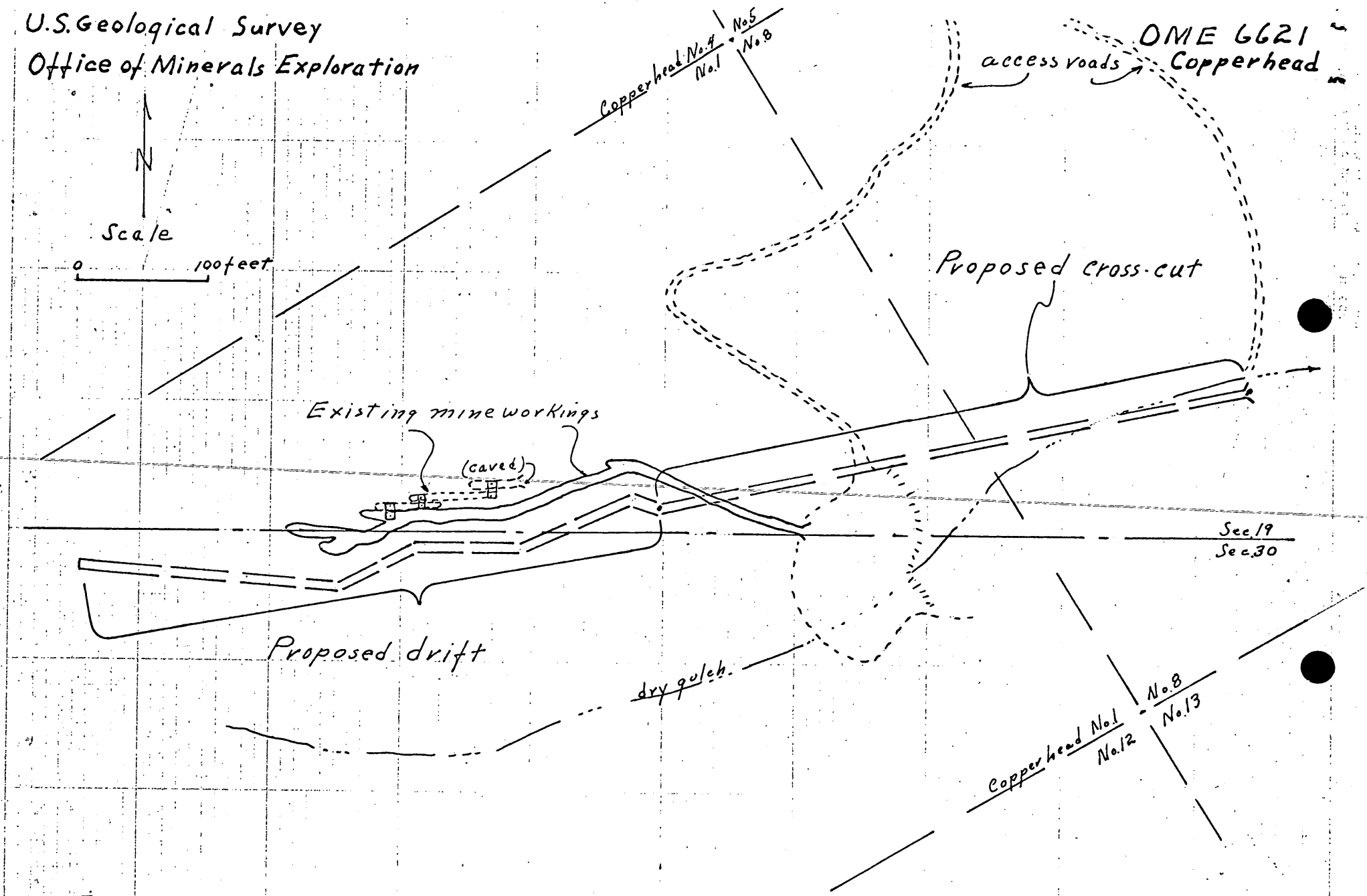


Figure 3 - Map showing existing mine workings and proposed cross-cutting and drifting, Copperhead Mine Mohave County, Arizona.

RUK. 10/67

Kirkemo

Dusty Denton, many years ago, submitted a DMEA application for a project on a silver-lead property in Hailey, Idaho. I looked at the project with him, later I recommended denial, which was done.

Since then I have received several letters from him, the latest of which is attached. It should go into the Copperhead Sec file.

Thor

Wickenburg Ariz.
Box 951
January 20 1967.

Mr. Thor H. Gilsgaard
United States Dept of Interior
Geological Survey.

Dear Thor,

We have finally put in for the Omega Lomon Silver. Long time back it was sent back to Bill Hassler in Denver and yesterday afternoon and this morning the mine was inspected by Robert Feng. It looks quite favorable for a project we have and has had some fantastic values as high as 7,852 oz. Ag. The faulting is quite simple and the pattern established should be the controlling not limiting factor for future production.

We should explore by drift about 1000 ft of vein at a level 400 ft below which we are ready to portal in and further the pattern and establish various ore shoots if such in the first 350 ft of the vein. Then perhaps in the future all further exploration should be accomplished by shaft drifting.

This work is more exciting and challenging than I imagined for more satisfying to find the projections come in as they should.

The application for Co. Co. assistance was put in under the name of Copperhead Inc. # One 6621 Silver exploration.

anything you could do to expedite this would greatly be appreciated.

Sincerely Yours.

F. J. "Thirsty" Hunter
Box 931
Nikinyo Arizona 85360

P. S. Bill Hasler was Mine Engineer at the Bunker Hill when I was repairman and Special Job Man underground there.

F. J. Kenton
Box 931
Mikenopary 85360.

KINGMAN, ARIZ.
JUN 22
-AM
1967

Thor Kilsgaard
U.S. Dept of the Interior
Geological Survey
Washington
D.C. 20242

Office of Minerals Exploration

June 2, 1967

Mr. Keith B. Redd
Monticello, Utah 84535

Re: OME-6621 (Copper)
Copperhead, Inc.
Copperhead Mine
Mohave County, Arizona

Dear Mr. Redd:

This letter concerns the field examination of the Copperhead Mine relative to your application for an Office of Minerals Exploration loan for financial assistance in exploring the Copperhead Mine in Mohave County, Arizona for new and undiscovered reserves of silver. Mr. Robert U. King, Geologist, U. S. Geological Survey, plans to be in the Kingman area during the week of June 18, 1967, and would like to make the field examination concerning this docket on June 20, 1967. In a telephone call with you this morning you advised us that Mr. King should contact Mr. F. J. (Dusty) Denten at Wickieup, Arizona the morning of June 20. This will help facilitate the processing of your application as it will not be possible for me to make an examination in that area during the month of June. It was good talking to you this morning and renew old acquaintances again.

Sincerely yours,

J. William Hasler

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

cc: Alfred Frost
F. J. (Dusty) Denten
Chief, OME
Hasler chron
OME chron
6621

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/25/67	Peterson	120
	On leave	120
		110
		220
		120M

AIRMAIL

Copper Head, Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah 84535

Re: OME-6621 (Silver)
Copper Head, Inc.
Copper Head Mine
Mohave County, Arizona

Gentlemen:

This will acknowledge receipt of your letter dated May 17, in which you forwarded additional information pertaining to the subject application.

We are enclosing three copies of Standard Form 25 Performance Bond. We have no preference as to the bonding company used; however, the one selected must be an established, reputable firm acceptable to the OME. In the event of a contract, the bond must cover the Government's share of the estimated cost of the exploration project.

A copy of the document transferring the rights of Keith B. Redd and C. Alfred Frost, who are listed as co-lessees in the mining lease, to Copper Head, Inc., should be submitted.

The application is now being referred to Mr. J. William Hasler, Field Officer, Region III, Office of Minerals Exploration, U. S. Geological Survey, Building 25, Denver Federal Center, Denver, Colorado 80225. Mr. Hasler will notify you if additional information concerning the application is needed, and possibly to make arrangements for a field examination.

It should be noted that Mr. Hasler is responsible for making OME field examinations in eleven states, and a visit to your property therefore will have to be scheduled well in advance.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geol. File
OME Docket
OME Reading File
OME Region III w/cy
incoming letr. 5/17/67
Mr. Peterson

Enclosures

ECPeterson/gla 5-25-67

23263

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/25/67	Peterson	120
	On leave	120
		110
		220
		120M

MAY 25 1967

AIRMAIL

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OMK-6621 (Silver)
Copper Head, Inc.
Copper Head Mine
Mohave County, Arizona

The subject application is referred to you for further consideration, a field examination if warranted, and recommendations.

Although assay and smelter settlement sheet information indicate interesting silver values occurring in the Copper Head deposit, we are not convinced that the potential of the property warrants Government participation in the proposed work. It is questionable whether the target area is larger than the previously mined block which yielded about 150,000 ounces of silver.

It should be noted that no information was supplied by the Applicant concerning the operating experience and background of the person who would supervise the work should a contract be granted.

FRANK E. JOHNSON

Frank E. Johnson

cc: Director's Reading File
Division File
Economic Geol. File
OME Docket
OME Reading File
Mr. Peterson
130

ECPeterson/gla 5-25-67

232'63

Monticello, Utah
May, 17, 1967

OFFICIAL COPY
O. M. E.
RECEIVED
MAY 22 1967
INITIALS | CODE
170 MU
RJ 110
FD 100P

Department of The Interior
U.S. Geological Survey
Office of Minerals Exploration
c/o Mr. Frank E. Johnson
Washington, 25, D. C. 20242

Dear Mr. Johnson,

Re. OME - 662I (Silver)
Copper Head, Inc.
Copper Head Mine
Mohave County, Ariz.

Enclosed are copies of our correspondence with Banks for loan application listed under item I (a) which you requested.

Mr. Grat and Louise Wilson are reluctant to sign Lien and Subordination Agreements so we will furnish a Performance Bond.

I have contacted Mr.David Bailey who sells Bonds for the following companies, Pacific Indemnity Co., United States Fedelity and Guaranty Company, and Western Surity Co. Do you have a preference?

If you have Bond forms please send some to me. Exactly what are the items and wording which should be spelled out in the Bond?

If you need any furthur information I will be glad to furnish it.

Sincerely Yours
C. Alfred Frost

C. Alfred Frost
Box 247
Monticello, Utah 84535

Form 7
(3)

OFFICIAL FILE COPY

Date	Surname	Code
21	Peterson	
4/21/67	Kirkham	

AIRMAIL

Copper Head, Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah 84535

APR 21 1967

Re: OME-6621 (Silver)
Copper Head, Inc.
Copper Head Mine
Mohave County, Arizona

Gentlemen:

A preliminary review of your application for exploration assistance shows that additional information is needed before we can continue its processing.

Please furnish copies of your correspondence with the two banks requesting an exploration loan. This requirement listed under Item 1(a) of the application form cannot be waived.

As you do not own the claims where work is contemplated, we would require Lien and Subordination Agreements signed by Grat and Louise Wilson, owners of the property. If the agreements cannot be obtained, we must have your assurance that a Performance Bond covering the Government's share of the estimated cost of the work would be furnished by the partnership in the event of a contract. Lien and Subordination Agreements (5 copies MME Form 52) are enclosed for your possible use.

For your information, under an OME contract underground openings 5' by 7' in cross section are considered adequate for exploratory purposes, and any additional cost incurred for driving larger openings would be at the Operator's own expense.

This request for additional information should not be construed as a commitment by the Government to grant an exploration contract. We shall hold the further processing of your application in abeyance until the requested data are received.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures

cc: Director's Reading File
Division File
Econ. Geol. File
OME Docket
OME Reading File
Region III
Peterson
ECPeterson/mm (4/21/67)

23263

April 13, 1967

Copper Head, Inc.
c/o C. Alfred Frost
Box 247
Monticello, Utah 84535

Subject: OME-6621

Dear Mr. Frost:

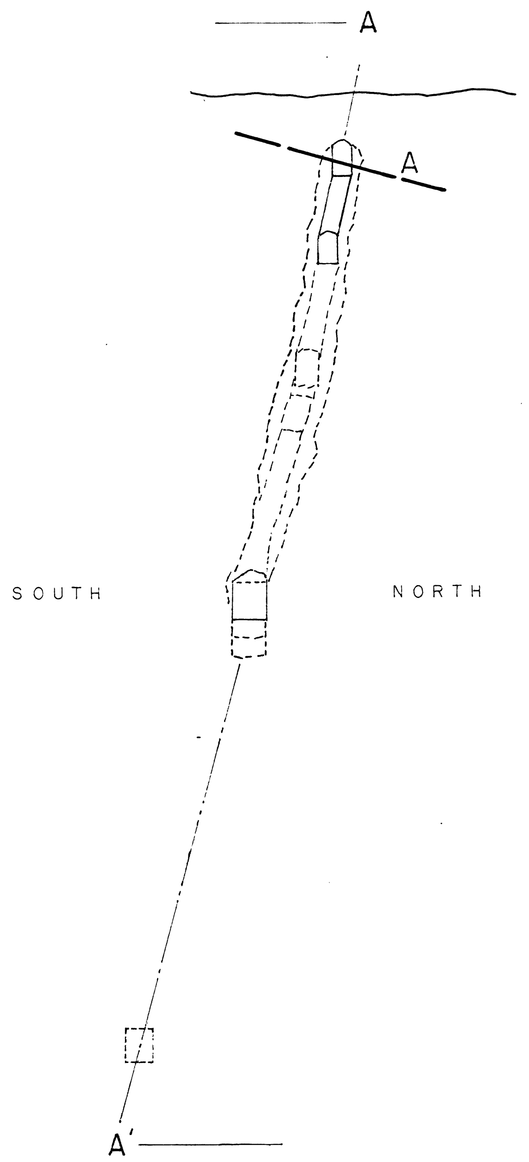
Your application for exploration assistance, dated March 31, 1967, submitted to our office at Denver, Colorado, has been assigned Docket No. OME-6621.

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

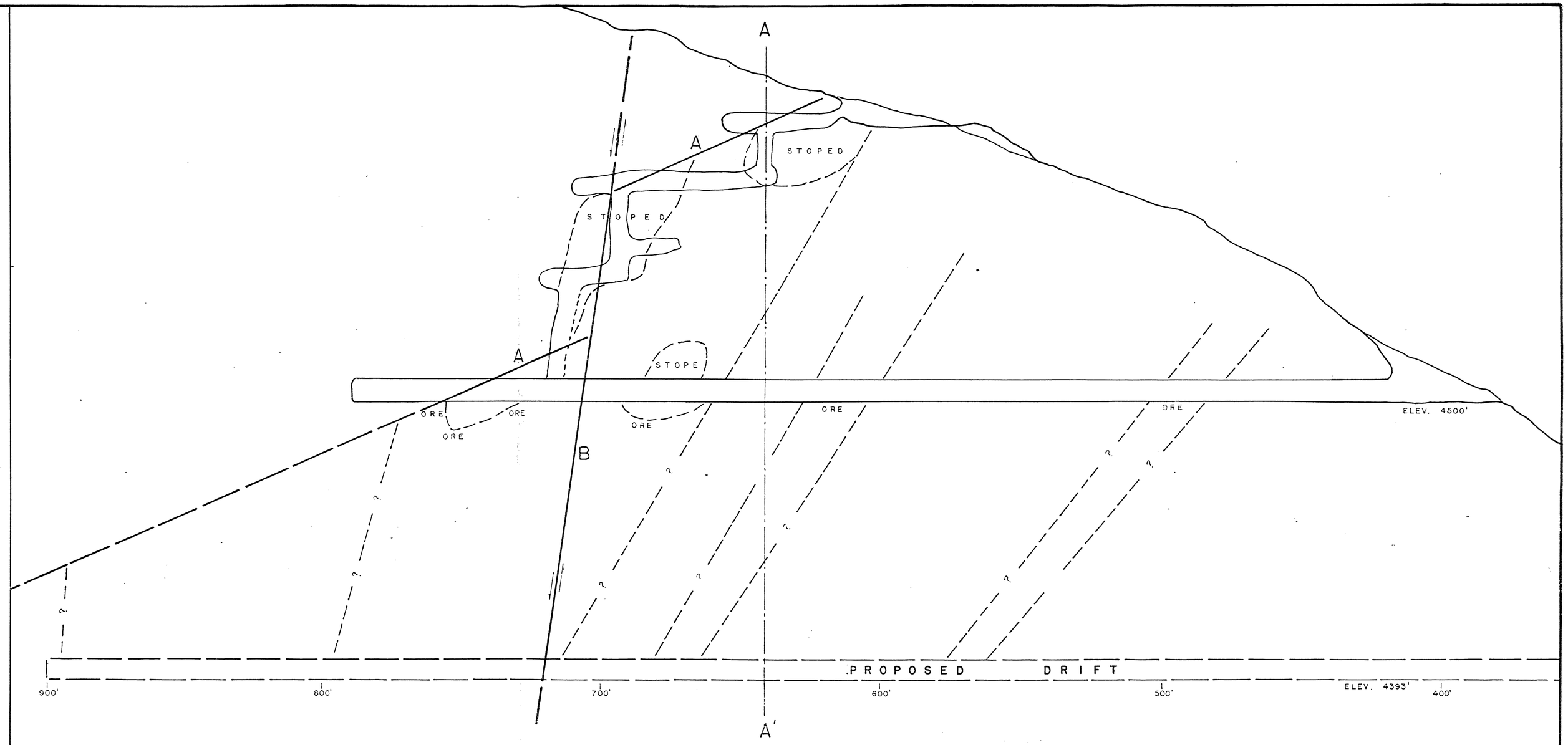
Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

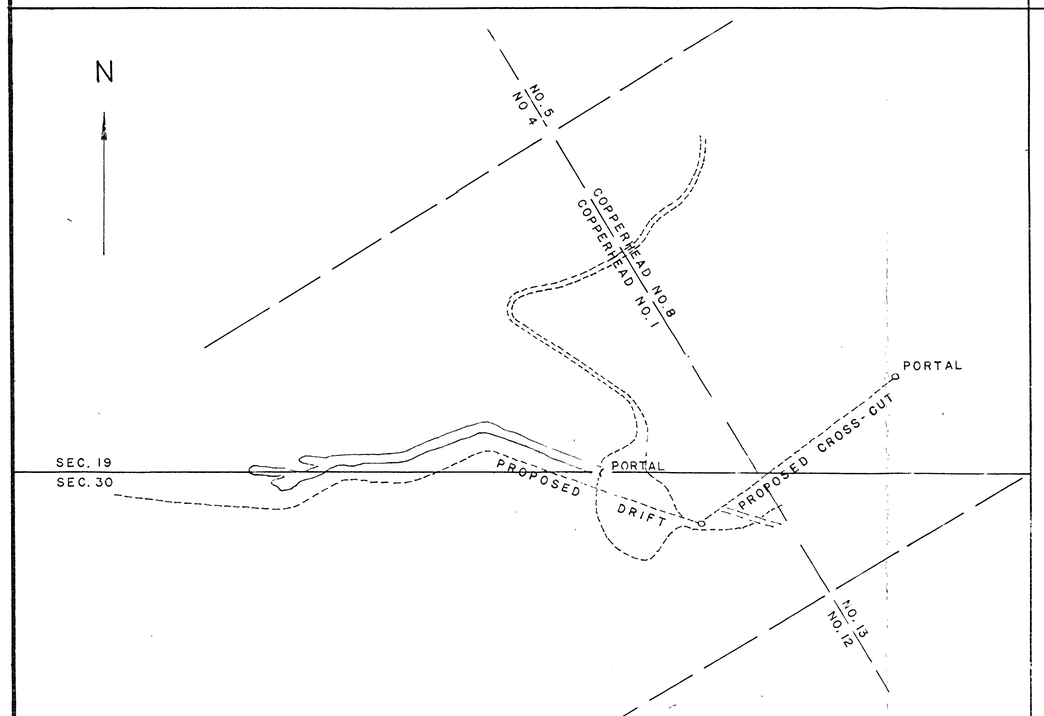
Copy to Region III



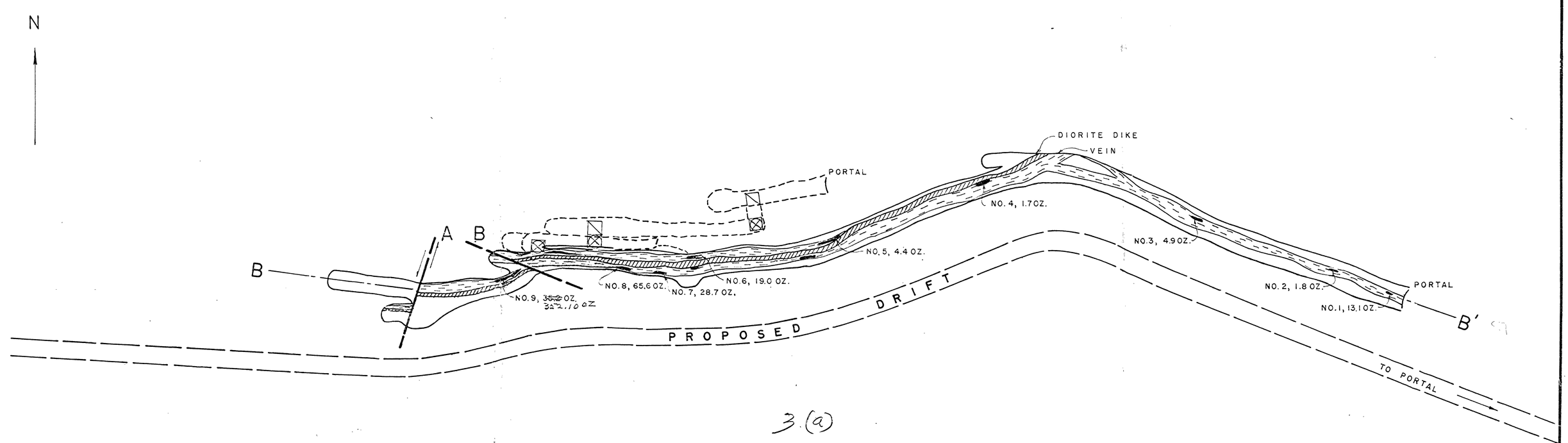
SECTION A-A'



SECTION B-B'



PROPOSED CROSS-CUT, DRIFT



3(a)

PLAN OF THE COPPERHEAD SILVER MINE

S. E. 1/4 SEC. 19, T 15 N R 13 W
MOHAVE COUNTY, ARIZONA

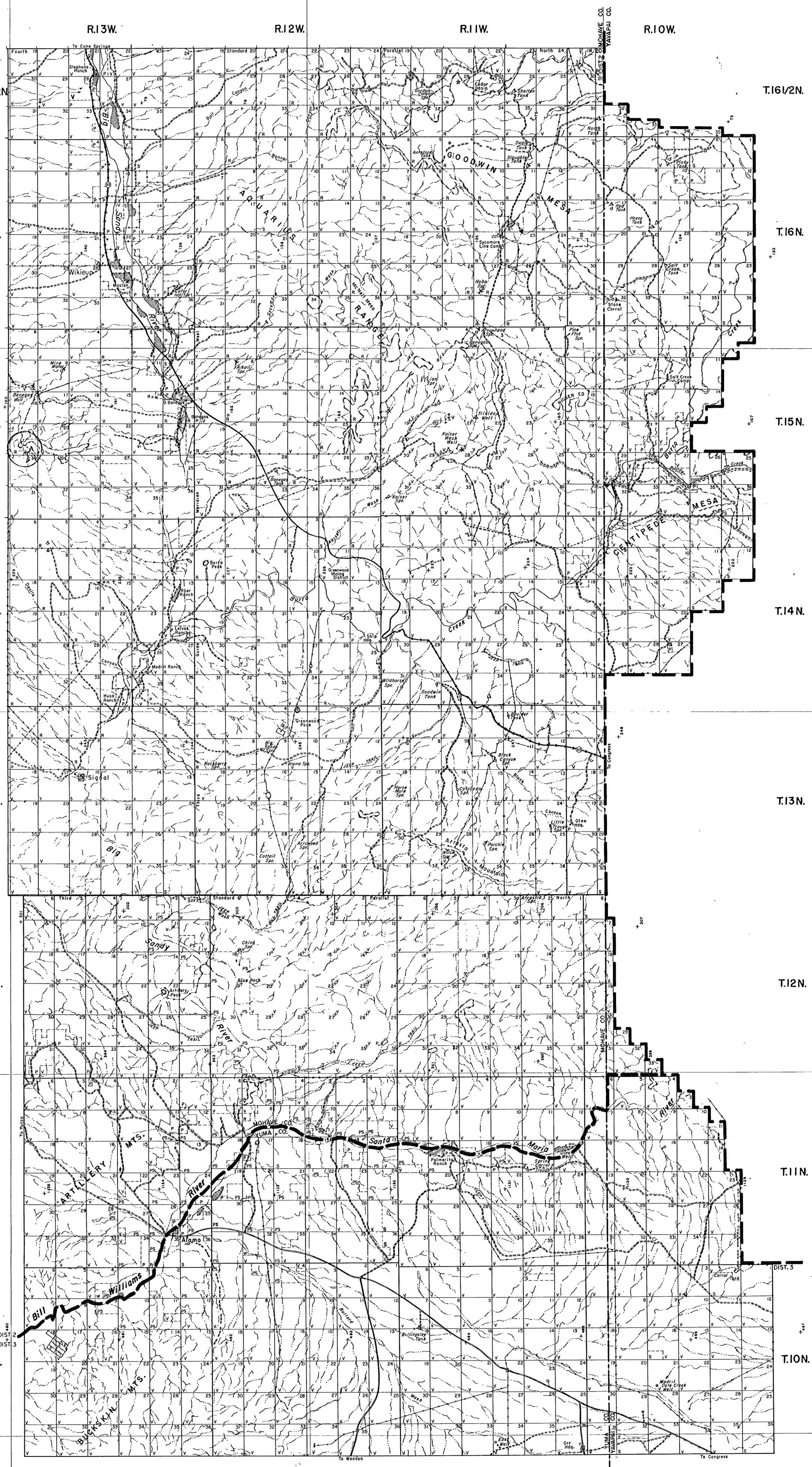
CONTROL BY TRANSIT AND TAPE
HOR. & VERT. SCALES 1"=20'
MARCH, 1967.

0 20 40 60 80

WILLIAM N. BOOTH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ARIZONA

ARIZONA MAP NO. 17
KINGMAN GRAZING DISTRICT NO. 2
MARICOPA GRAZING DISTRICT NO. 3



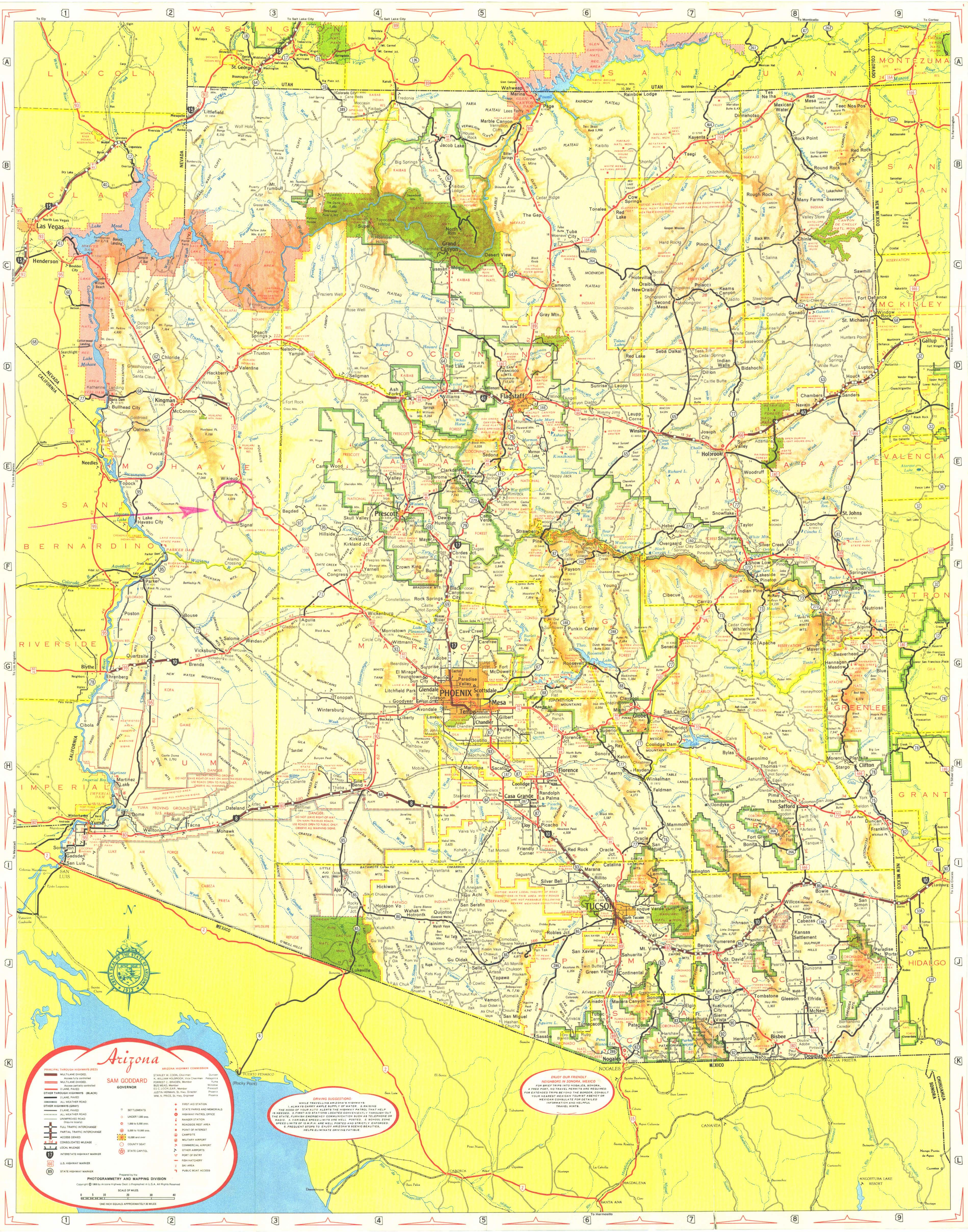
BASE MAP

Compiled in 1960 from records of the Bureau of Land Management.
Control by USBLM, USGS, and USC & GS.
Planimetric mapping from 1953 aerial photographs by sterophotogrammetric methods.
For field check and revisions see US Bureau of Land Management map compilation records.
LAND STATUS corrected the first week of each month. For more detailed and official information the Land Office Records in the State Office of the US Bureau of Land Management are available for inspection by the public from 10.00 A M to 3 00 P M Monday thru Friday.

1 1/2 0 1 2 3 4
SCALE IN MILES

ARIZONA MAP NO. 17
BUREAU OF LAND MANAGEMENT
RANGE SURVEYS
PHOENIX DRAFTING OFFICE

COPIES OF MAPS AVAILABLE FOR $1.00 EA.
FROM U.S. BUREAU OF LAND MANAGEMENT
3022 FEDERAL BUILDING, PHOENIX 25, ARIZONA
Note: Checks or Money Orders should be made payable to the U.S. Bureau of Land Management.



Arizona
PRINCIPAL THROUGH HIGHWAYS (RED)
MULTILANE DIVIDED, Access fully controlled
MULTILANE DIVIDED, Access partially controlled
2 LANE, PAVED
OTHER THROUGH HIGHWAYS (BLACK)
2 LANE, PAVED
ALL WEATHER ROAD
OTHER HIGHWAYS (GRAY)
2 LANE, PAVED
ALL WEATHER ROAD
UNIMPROVED ROAD (Inquire locally)
FULL TRAFFIC INTERCHANGE
PARTIAL TRAFFIC INTERCHANGE
ACCESS DENIED
CONSOLIDATED MILEAGE
LOCAL MILEAGE
INTERSTATE HIGHWAY MARKER
U.S. HIGHWAY MARKER
STATE HIGHWAY MARKER
SAM GODDARD
GOVERNOR
ARIZONA HIGHWAY COMMISSION
STANLEY W. COON, Chairman Duncan
K. WILLIAM HOLBROOK, Vice Chairman Patagonia
FORREST C. BRADEN, Member Yuma
BUS MEAD, Member Winslow
ED C. LOCKLEAR, Member Prescott
JUSTIN HERMAN, St. Hwy. Director Phoenix
WM. N. PRICE, St. Hwy. Engineer Phoenix
SETTLEMENTS
UNDER 1,000 pop.
1,000 to 5,000 pop.
5,000 to 10,000 pop.
10,000 and over
COUNTY SEAT
STATE CAPITOL
FIRST-AID STATION
STATE PARKS AND MEMORIALS
HIGHWAY PATROL OFFICE
RANGER STATION
ROADSIDE REST AREA
POINT OF INTEREST
CAMPSITE
MILITARY AIRPORT
COMMERCIAL AIRPORT
OTHER AIRPORTS
PORT OF ENTRY
FISH HATCHERY
SKI AREA
PUBLIC BOAT ACCESS
Prepared by the
PHOTOGRAMMETRY AND MAPPING DIVISION
Copyright © 1966 by Arizona Highway Dept. Lithographed in U.S.A. All Rights Reserved
SCALE OF MILES
0 5 10 20 30 40
ONE INCH EQUALS APPROXIMATELY 20 MILES
DRIVING SUGGESTIONS:
WHILE TRAVELLING ARIZONA'S HIGHWAYS:
1. ALWAYS CARRY AMPLE SUPPLY OF WATER. 2. RAISING THE HOOD OF YOUR AUTO ALERTS THE HIGHWAY PATROL THAT HELP IS NEEDED. 3. FIRST-AID STATIONS LOCATED CONVENIENTLY THROUGH-OUT THE STATE, FURNISH EMERGENCY COMMUNICATION SUCH AS TELEPHONE OR RADIO. 4. VARIABLE SPEED LIMITS ARE WELL POSTED. 5. SCHOOL ZONE SPEED LIMITS OF 15 M.P.H. ARE WELL POSTED AND STRICTLY ENFORCED. 6. FREQUENT STOPS TO ENJOY ARIZONA'S SCENIC BEAUTIES, HELPS ELIMINATE DRIVING FATIGUE.
ENJOY OUR FRIENDLY NEIGHBORS IN SONORA, MEXICO
FOR BRIEF TRIPS INTO NOGALES, SONORA, A FREE PORT, NO TRAVEL PERMITS ARE REQUIRED. FOR EXTENDED TRIPS BEYOND THE BORDER, CONSULT YOUR NEAREST MEXICAN TOURIST AGENCY OR MEXICAN CONSULATE FOR DETAILED INFORMATION AND HELPFUL TRAVEL HINTS.
GREAT SEAL OF THE STATE OF ARIZONA 1912
DITAT DEUS
NOTICE: MAKE LOCAL INQUIRY OF ROAD CONDITIONS IN THIS AREA. MANY ROADS ARE NOT PASSABLE FOLLOWING SEVERE WEATHER CONDITIONS.
DANGER: DO NOT LEAVE RIGHT-OF-WAY ON MAIN TRAVELED ROADS. USE ROADS OPEN TO PUBLIC ONLY. OBSERVE ALL WARNING SIGNS.
PHOENIX
TUCSON
Flagstaff
Prescott
Yuma
Kingman
Holbrook
Globe
Florence
Safford
Nogales
Bisbee
Douglas
St. Johns
MOHAVE
COCONINO
NAVAJO
APACHE
YAVAPAI
MARICOPA
GILA
GREENLEE
GRAHAM
PINAL
PIMA
SANTA CRUZ
COCHISE
YUMA
MEXICO
UTAH
NEVADA
CALIFORNIA
NEW MEXICO
COLORADO
SONORA
CHIHUAHUA