MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6740

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- [ ] Withdrawn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) 5/14/69
- [ ] 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

MARKET 3-2335

POPE VALLEY MINES CORPORATION
SUBSIDIARY 100% AETNA QUICKSILVER MINES CONSOLIDATED
7 PARIS STREET, NEWARK, NEW JERSEY 07105

OFFICE OF
THE PRESIDENT

June 25, 1968

Minerals Exploration
U.S. Dept of Interior
Washington,D.C.

Gentlemen:

Attach hereto find our Application for exploration subsistance together with maps and etc, also you will find the original five (U.S. Field Notes) and five (U.S. Plats) of these claims.

Do hope and pray that we may get consideration which will help us after a past century of small mining truly bring a real property to a large operation .

Trusting we have complied with all request and thanking you in advance for your kind consideration.

Very truly yours,
Pope Valley Mines

Armand C. Massie

Armand C, Massie
President

MME Form 40
Jan. 65

Budget Bureau No. 42-R1506
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

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

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

POPE VALLEY MINES CORPORATION
7 PARIS STREET
NEWARK, NEW JERSEY 07105

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER 6740

DATE RECEIVED 7-9-68

REGION II

DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
1. Armand C. Massie	39 Duncan Ave. Jersey City, N.J.	Pres. & Director
2. Anne E. Hughes	P.O. Box 202, Rumson, N.J.	Executive Vice Pres.& Chairman of Finance Committee & Dir
3. Kenneth Dean	2029 Stockton St., Napa, Calif.	Vice Pres Supervisor, Dir. & Gen. Manager
4. Elaine Loureiro	21 Madison St., Newark, N.J.	Treas.
5/ Virgil Landsdown	Middleton, Calif.	Director

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE
Quicksilver

ESTIMATED COST OF PROJECT
$ 325,000.00

PROPERTY NAME	LOCATION COUNTY	STATE
Pope Valley Mines	Napa,	Calif.

(100% owner Aetna Quicksilver Mines Con. Inc.)

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., 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.

June 20/68
DATED

Armand C. Massie
BY *(Signature)*

President
TITLE

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

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

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

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

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

2. Applicant's Rights in Land:

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

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

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

3. Physical Description:

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

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

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

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

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

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

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

4. Accessibility of Property:

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

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

5. Exploration Work:

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

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

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

6. Experience:

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

7. Estimate of Costs:

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

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

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

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

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

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

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

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

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

MARKET 3-2335

POPE VALLEY MINES CORPORATION
SUBSIDIARY 100% AETNA QUICKSILVER MINES CONSOLIDATED
7 PARIS STREET, NEWARK, NEW JERSEY 07105

OFFICE OF
THE PRESIDENT

With respect to questions 2 to 5 the applicant is the owner of the property through it's 100% wholly owned subsidiary Aetna Quicksilver Mines. These properties have been registered in Corporation name for the past 52 years. Two copies of deed are attached to this letter. These properties are free and clear of all encumbrances.

C. Pope Valley Mines will have on deposit in Bank $ 75,000 to $ 80,000

The address of the Corporation is 7 Paris Street, Newark, New Jersey and at Pope Valley, Calif. in care of Mrs. Herz on property of Aetna Mine, with respect to section B of # 2.

Also attached are 2 copies of all legal descriptions. All of our property (excepting the Pope claim which should not be subject to government royalty and liens).

C. NONE

3. All necessary maps and sketches are attached herewith.

B. Represent controlling stockholders.

C. Information attached herewith also page 103 book of U.S. Dept. of Interior IC Bureau of Mines # 8252 Mercury Potential of the United States by Bureau of Mines.

D. Maps indicating attached.

E. Maps attached.

F. Truly it is all over our area.

G. Attached.

4. Property located 14 miles north of St. Helena, on paved road. All the way to the property which is one mile, up on same paved road is a famous Summer Resort known as Aetna Springs.

Phone
707-965-2353
c/o Aetna Mines
Pope Valley

On premises a Mr. MCCall or a Mrs. Herz, or who ever else may be their on the property will be glad to help direct him to the properties.

B. 14 miles to St. Helena, is a Railroad Station and Shopping center area.

COMPARED

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Harry B. Lawley, et al, :
to :
Aetna Quicksilver Mines Consolidated(a corporation) :

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

This Indenture made on the 11th day of March, in the year of our Lord, One thousand nine hundred and eighteen, between Harry B. Lawley and Hattie A.Lawley (his wife), Charles A. Lawley and Rosemary Lawley(his wife), all of the county of Napa, State of California, and "Aetna Quicksilver Mines, Consolidated", (a corporation), the party of the second part, the parties of the first part,

D.R.B. N.P.

Witnesseth: that the said parties of the first part, for and in consideration of the sum of ten ($10.00) dollars, in gold coin of the United States of America, to them in hand paid by the said party of the second part, at or before the ensealing and delivery of these presents, the receipt whereof is hereby acknowledged, have granted, bargained, sold and conveyed and by these presents do grant, bargain, sell and convey unto the said party of the second part, and unto its successors and assigns forever, all those certain lots, pieces or parcels of land situate, lying and being in the county of Napa, State of California, bounded and particularly described as follows, to-wit:

Phoenix Mining Claim, part of sections 2 and 3, in township 9 north, range 6 west, M.D.M.; Washington Mining Claim, part of section 2, in said township and range; The northwest quarter (¼) of the northeast quarter (¼), and the northeast quarter (¼) of the northwest quarter (¼), and the south half (½) of the northwest quarter (¼), of section eleven (11), in said township and range; Red Hill Mining Claim, part of sections 2 and 3, in said township and range, and sections 34 and 35, in township 10 north, range 6 west, M.D.M.; Silver Bow Mining Claim, being lots 40 and 43, in townships 9 and 10 north, range 6 west, M.D.M.; Pope Mining Claims, being lots 41 and 44, embracing a portion of townships 9 and 10, north, range 6 west,M.D.M.

Lots 3,4,9,10, 11, and 12, in section 2, township 9 north, range 6 west, M.D.M.; the west half (½) of the southeast quarter (¼) of section 3, and the west half (½) of the northeast quarter (¼) of section 24, in township 9north, range 6 west, M.D.M.; lots 13,14, and 15, in section 2, township 9 north, range 6 west, M.D.M.

Rec. Stamps $30.00 F.B.R. 3/11/18

Together with all and singular the tenements, hereditaments, and appurtenances, thereunto belonging or in anywise appertaining, and the reversion and reversions, remainder and remainders, rents, issues and profits thereof.

To have and to hold all and singular, the above mentioned and described premises, together with the appurtenances, unto the said party of the second part, its successors and assigns forever.

In Witness Whereof, the said parties of the first part have hereunto set their hands and seals, the day and year first hereinabove written.

Harry B. Lawley, (seal)
Hattie A. Lawley, (seal)
Charles A. Lawley, (seal)
Rosemary Lawley, (seal)

State of California)
county of Napa.) ss.

On this 11th day of March, 1918, before me, D.L. Beard, a Notary Public in and for the county of Napa, State of California, personally appeared, Harry B. Lawley and Hattie A. Lawley, his wife, and Charles A. Lawley and Rosemary Lawley, his wife, known to me to be the same persons whose names are subscribed to the within instrument, and they duly acknowledged to me that they executed the same.

In Witness Whereof, I have hereunto set my hand and affixed my official seal at my office in the county of Napa, the day and year in this certificate first above written.

SEAL

D. L. Beard
Notary Public in and for the county of Napa
State of California.

My commission expires
May 15, 1918.

A true copy of an original recorded at the request of Charles A. Gray, Mar. 12, 1918, A.D., at 5 mins. past 11 o'clock A.M.

H. L. Gunn
County Recorder.

The within Document is a true copy of the record in this office.
Attest:
Date
FEB - 5 1968
Velva Swan
County Recorder in and for Napa County, State of California.
By Deputy Recorder

ESTABLISHED 1812

First National State Bank

OF NEW JERSEY

Port Newark Office / 176 South Street / Newark, New Jersey 07114

June 19, 1968

Armand C. Massie, President
Pope Valley Mines Corporation
7 Paris Street
Newark, New Jersey 07105

Dear Mr. Massie:

This is to inform you that we are unable to grant the loan requested by Pope Valley Mines Corporation in your letter dated June 11, 1968.

We thank you for the opportunity to review the loan request.

Very truly yours,

Robert J. Chap

Robert J. Chap
Assistant Cashier

RJC/sgs

MARKET 3-2335

POPE VALLEY MINES CORPORATION
SUBSIDIARY 100% AETNA QUICKSILVER MINES CONSOLIDATED
7 PARIS STREET, NEWARK, NEW JERSEY 07105

OFFICE OF
THE PRESIDENT

June 11, 1968

Mr. R. Chap
First National Bank of New Jersey
South St.
Port Newark Branch
Newark, N.J.

Dear Sir:

The above Corporation is the owner of 100% of the Capital Stock of Aetna Quicksilver Mines Consolidated Inc. a California Corporation. Aetna is the owner of 5 Patented mining claims in the Pope Valley district of Napa County California. All of these properties are mentioned in U.S. Mercury Book issued by the Dept. of the Interior. These mines are known as: # 1 Pope Mine, # 2 Phoeneiz Mine, # 3 Red Hill Mine, # 4 Washington Mine, # 5 Silver Bow Mine. All of these mines in the past have produced over 70,000 flasks of Mercury. However these mines have more or less operated sporadically for the past 100 years. But recent operations at one of these mines produced 80 flasks of Mercury in a period of 3 to 4 months in 1967. These properties consist of approximately 560 acres or more.and are owned by deed since 1916 by Aetna. This type of property in Pope Valley recently sold at $ 1000 to $ 2000 per acre. Half of this property is located on good paved roads, and the other half on a good used dirt roads.

We are seeking a loan of about # 300,000 which we will repay in 3 to 5 years on a monthly amortization basis of about $ 5000 to

MARKET 3-2335

POPE VALLEY MINES CORPORATION
SUBSIDIARY 100% AETNA QUICKSILVER MINES CONSOLIDATED
7 PARIS STREET, NEWARK, NEW JERSEY 07105

OFFICE OF
THE PRESIDENT

$ 7500 per month. Once these properties are in operation we anticipate a gross income of app. $ 35,000 to $ 40,000 per month. A loan of $ 300,000 will place these mines in full operation. The proceeds of this loan will be used as follows: to purchase Heavy equiptment such as, Two large dump trucks, 2 small trucks, one large Bulldozer tractor and small Bulldozer loader and about 3 or 4 small D. Retort burners or one large 80 ton Rotary Furnace burner plus pumps,tanks, compressors, rails, generators and Etc. also included is building of Bunk house and work shop for 10 to 12 men. A first Mortgage on the entire property and equiptment will be given to secure loan if granted. The property presently is free and clear of all encumberances.

Very truly yours,
Pope Valley Mines Corp.

Armand C. Massie
President

Eaton & Company, Inc.

TELETYPE
NY 1-368

INVESTMENT SECURITIES
32 BROADWAY
NEW YORK 4, N. Y.

TELEPHONE
WHITEHALL 3-1492

June 18,1968

Mr. Armand C. Massie
Pope Valley Mines Corp.
7 Paris Street
Newark,N.J. 07105

Dear Mr. Massie:

In regard to your recent letter concerning your mercury properties in California. At the present time our clients and ourselves are not interested in your presentation.

We thank you for thinking of us and wish you every success in your venture.

Very truly yours,
Robert J. Hespe
Robert J. Hespe V.P.
Eaton & Co.,Inc.

MARKET 3-2335

POPE VALLEY MINES CORPORATION
SUBSIDIARY 100% AETNA QUICKSILVER MINES CONSOLIDATED
7 PARIS STREET, NEWARK, NEW JERSEY 07105

OFFICE OF
THE PRESIDENT

June 10,1968

Robert J. Hespe Pres.
Eaton & Co.
32 Broadway
New York, N.Y.

Dear Sir:

With respect to our conversation of recent date regarding a loan, the following information will bring you up to date concerning the property and its purpose The above Corporation is the owner of 100% of the Capital Stock of Aetna Quicksilver Mines Consolidated Inc a California Corporation. Aetna is the owner of 5 Patented mining claims in the Pope Valley district of Napa County California. All of these properties are mentioned in U.S. Mercury Book issued by the Dept. of the Interior. These mines are known as:#1 Pope Mine, #2 Phoeneiz Mine,#3 Red Hill Mine,#4 Washington Mine, #5 Silver Bow Mine. All of these mines in the past have produced over 70,000 flasks of Mercury. However these mines have more or less operated sporadically for the past 100 years. But recent operations at one of these mines produced 80 flasks of Mercury in a period of 3 to 4 months in 1967. These properties consist of approximately 560 acres or more and are owned by deed since 1916 by Aetna.

MARKET 3-2335

POPE VALLEY MINES CORPORATION
SUBSIDIARY 100% AETNA QUICKSILVER MINES CONSOLIDATED
7 PARIS STREET, NEWARK, NEW JERSEY 07105

OFFICE OF
THE PRESIDENT

(Page 2)

This type of property in Pope Valley recently sold at $1000 to $2000 per acre. Half of this property is located on good paved roads, and the other half on a good used dirt road.

We are seeking a loan of about $300,000 which we will repay in 3 to 5 years on a monthly amortization basis of about $5000 to $7500 per month. Once these properties are in operation we anticipate a gross income of App.$35,000 to $40,000 per month. A loan of $300,000 will place these mines in full operation. The proceeds of this loan will be used as follows: to purchase Heavy equipment such as, Two large dump trucks, 2 small trucks, one large Bulldozer tractor and small bulldozer loader and about 3 or 4 small D. Retort burners or one large 80 ton Rotary Furnace burnerplus pumps, tanks, compressors, rails, generators and Etc.also included is a building of Bunk house and work shop for 10 to 12 Men. A first Mortgage on the entire property and equipment will be given to secure loan if granted. The property presently is free and clear of all encumberances. Any additional information that may be requested,just phone me we will be happy to comply. Thanking you in advance for your help in this matter. We Are

Very truly yours,
Pope Valley Mines Corp.

Armand C. Massie

Armand C. Massie
President

METALLURGICAL LABORATORIES, INC. CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO, CALIFORNIA 94103 • AREA CODE 415 863-8575

REPORT OF ANALYSIS

Submitted by Red Silver Mines
723 South Minahen
Napa, California

Date March 24, 1966

P. O. No.

Sample of Ore on dumps

LABORATORY NUMBER	MARK	PERCENTAGES	
		Mercury %	Lbs. per Ton
5392	#1 ore Stockpile	0.936	18.72

METALLURGICAL LABORATORIES, INC.

By

METALLURGICAL LABORATORIES, INC. CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO, CALIFORNIA 94103 • AREA CODE 415 863-8575

REPORT OF ANALYSIS

Submitted by Red Silver Mines
723 South Minahen
Napa, California 94558

Date March 18, 1966

P. O. No.

Sample of Ore on dumps.

LABORATORY NUMBER	MARK	PERCENTAGES	
	Dump	Mercury %	Lbs. per Ton
5351	1	0.048	0.96
	2	0.029	0.58
	3	0.068	1.36
	4	0.256	5.12

Ⓟs

METALLURGICAL LABORATORIES, INC.

By [signature]

METALLURGICAL LABORATORIES, INC. CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO, CALIFORNIA 94103 • AREA CODE 415 863-8575

REPORT OF ANALYSIS

Submitted by Red Silver Mines
723 South Minahen
Napa, California 94558

Date February 25, 1966

P. O. No.

Sample of Ore on dumps

LABORATORY NUMBER	MARK	PERCENTAGES	
		Mercury %	Lbs. per Ton
5240	#1 grab (Stope)	0.771	15.42
	#2 Cut of Streak top left (Stope)	1.246	24.92

Ps

METALLURGICAL LABORATORIES, INC.

By [signature]

METALLURGICAL LABORATORIES, INC. CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO, CALIFORNIA 94103 • AREA CODE 415 863-8575

REPORT OF ANALYSIS

Submitted by Red Crystal Mines
c/o Mr. Carl Holmgren
723 South Minahen
Napa, California

Date December 22, 1965

P. O. No.

Sample of Ore dumps

LABORATORY NUMBER	MARK	PERCENTAGES	
		Mercury %	Lbs. per Ton
4866	#1 Streak in 1st drift left bottom	2.66	53.20
	#2 Mud streak in bottom of drift	0.350	7.00
	#3 Streak in 1st drift up side	0.745	14.90
	#4 Grab in drift to old stope	0.003	0.06
	#5 High grade streak in wall 1st drift	2.58	51.60

Ps

METALLURGICAL LABORATORIES, INC.

By [signature]

METALLURGICAL LABORATORIES, INC. CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO, CALIFORNIA 94103 • AREA CODE 415 863-8575

REPORT OF ANALYSIS

Submitted by Red Silver Mines
723 South Minahen
Napa, California

Date March 31, 1966

P. O. No.

Sample of Ore on dumps

LABORATORY NUMBER	MARK	PERCENTAGES	
		Mercury %	Lbs. per Ton
5435	#1	0.071	1.42
	#2	0.002	0.04

Ⓟs

METALLURGICAL LABORATORIES, INC.

By [signature]

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

PURCHASED FROM

RED SILVER MINES
723 SOUTH MENAHEN,
NAPA, CALIFORNIA

DATE November 28, 1966
YOUR LOT NO.
OUR PURCHASE NO. 78308
F.O.B. S.F., CALIF.
SHIPPED VIA YOUR DEL.

3 x 76# FLASKS PRIME VIRGIN	@ $470.00	$1,410.00
1 x 8 1/2# FLASKS PRIME VIRGIN	6.18#	52.53
		$1,462.53
	Less Flasks	6.00
		$1,456.53

SETTLEMENT:

15% POPE VALLEY MINES 7 Paris St. NEWARK, NEW JERSEY	$ 219.38
85% RED SILVER MINES	1,237.15
	$1,456.53

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

PURCHASED FROM

RED SILVER MINES
723 SOUTH MENAHEN
NAPA, CALIFORNIA

DATE NOV. 1, 1966
YOUR LOT NO.
OUR PURCHASE NO. 78241
F.O.B. SAN FRANCISCO, CAL.
SHIPPED VIA YOUR DELIVERY

3 x 76#	Flasks PRIME VIRGIN QUICKSILVER	@ $530.00	$1,590.00
1 x 42#	Flask PRIME VIRGIN QUICKSILVER	@ $6.97#	292.74
			$1,882.74
		LESS FLASKS	8.00
			$1,874.74

SETTLEMENT:

15% - Pope Valley Mines 7 Paris Street Newark, New Jersey		$ 282.41
85% - Red Silver Mines	$1,600.33	
Less Flasks	8.00	1,592.33
		$1,874.74

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

PURCHASED FROM

RED SILVER MINES
723 SOUTH MENAHEN
NAPA, CALIFORNIA

DATE OCT. 4, 1966
YOUR LOT NO.
OUR PURCHASE NO. 78187
F.O.B. SAN FRANCISCO, CAL.
SHIPPED VIA YOUR DELIVERY

5 x 76# Flasks PRIME VIRGIN QUICKSILVER	@	$470.00	$2,350.00
1 x 27-3/4# Flask PRIME VIRGIN QUICKSILVER	@	$6.18#	171.50
			$2,521.50
Less Flasks			10.00
			$2,511.50

SETTLEMENT:

15% - Aetna Quicksilver Mines Corporation 7 Paris Street Newark, New Jersey		$ 378.23
85% - Red Silver Mines	$2,143.27	
Less Flasks	10.00	2,133.27
		$2,511.50

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

PURCHASED FROM

POPE VALLEY MINES
723 SOUTH MINAHEN
NAPA, CALIFORNIA

DATE SEPT. 19, 1966
YOUR LOT NO.
OUR PURCHASE NO. 78143
F.O.B. SAN FRANCISCO, CAL.
SHIPPED VIA YOUR DELIVERY

6 x 76#	Flasks	PRIME VIRGIN QUICKSILVER	@ $435.00	$2,610.00
1 x 62½#	Flask	PRIME VIRGIN QUICKSILVER	@ $5.72#	357.50
				$2,967.50
		LESS FLASKS		14.00
				$2,953.50

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

13

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

PURCHASED FROM

RED SILVER MINE
723 SOUTH MENHAM
NAPA, CALIFORNIA

DATE 9/6/66
YOUR LOT NO.
OUR PURCHASE NO. 78104
F.O.B. SAN FRANCISCO
SHIPPED VIA YOUR DELIVERY

5 X 76# Flasks PRIME VIRGIN QUICKSILVER	@$410.00	Ea.	$2,050.00
1 X 15-1/2# Flask PRIME VIRGIN QUICKSILVER	@$ 5.39#		$ 83.55
			$2,133.55
LESS FLASKS:			$ 10.00
			$2,123.55

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

12

PURCHASED FROM

RED SILVER MINES
723 SOUTH MENHAM
NAPA, CALIFORNIA

DATE 8/30/66
YOUR LOT NO.
OUR PURCHASE NO. 78086
F.O.B. SAN FRANCISCO
SHIPPED VIA YOUR DELIVERY

5 X 76# Flasks	PRIME VIRGIN QUICKSILVER	@$400.00 Ea.	$2,000.00
1 X 50# Flask	PRIME VIRGIN QUICKSILVER	@$ 5.26#	$ 263.00
			$2,263.00
	LESS FLASKS:		12.00
			$2,251.00

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

11

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

PURCHASED FROM

RED SILVER MINES

723 SO. MENHAM

NAPA, CALIFORNIA

DATE 8/23/66
YOUR LOT NO.
OUR PURCHASE NO. 78068
F.O.B. SAN FRANCISCO
SHIPPED VIA YOUR DELIVERY

5 X 76# Flasks PRIME VIRGIN QUICKSILVER	@$405.00 Ea.	$2,025.00
1 X 38-3/4# Flask PRIME VIRGIN QUICKSILVER	@$ 5.232#	$ 206.15
		$2,231.15
LESS FLASKS:		$ 12.00
		$2,219.15

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

10

PURCHASED FROM

RED SILVER MINE
723 SOUTH MENHAM
NAPA, CALIFORNIA

DATE 8/2/66
YOUR LOT NO.
OUR PURCHASE NO. 78023
F.O.B. SAN FRANCISCO
SHIPPED VIA YOUR DELIVERY

2 X 76# Flasks	PRIME VIRGIN QUICKSILVER	@$390.00 Ea.	$ 780.00
1 X 70# Flask	PRIME VIRGIN QUICKSILVER	@$ 5.13#	359.10
			$ 1,139.10
		LESS FLASKS:	6.00
			$ 1,133.10

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

(9)

PURCHASED FROM
RED SILVER MINE
723 SOUTH MENHAM
NAPA, CALIFORNIA

DATE JULY 7, 1966
YOUR LOT NO.
OUR PURCHASE NO. 53476
F.O.B. SAN FRANCISCO, CAL.
SHIPPED VIA YOUR DELIVERY

5 x 76#	Flasks	PRIME VIRGIN QUICKSILVER	@ $330.00	$1,650.00
1 x 15#		PRIME VIRGIN QUICKSILVER	@ $4.34#	65.10
				$1,715.10
		LESS FLASKS		10.00
				$1,705.10

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

8

PURCHASED FROM
RED SILVER MINE
723 SOUTH MENHAM
NAPA, CALIFORNIA

DATE JUNE 28, 1966
YOUR LOT NO.
OUR PURCHASE NO. 53467
F.O.B. SAN FRANCISCO, CAL.
SHIPPED VIA YOUR DELIVERY

2 x 76#	Flasks	PRIME VIRGIN QUICKSILVER	@ $305.00	$610.00
1 x 2¼#	Flask	PRIME VIRGIN QUICKSILVER	@ $4.01#	9.02
				$619.02
		LESS FLASKS		4.00
				$615.02

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

7

PURCHASED FROM

RED SILVER MINE
723 SOUTH MENHAM
NAPA, CALIFORNIA

DATE 6/17/66
YOUR LOT NO.
OUR PURCHASE NO. 53440
F.O.B. SAN FRANCISCO
SHIPPED VIA YOUR DELIVERY

1 X 73# Flask PRIME VIRGIN QUICKSILVER	@$3.61#	$263.53
LESS FLASK:		2.00
		$261.53

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

6

PURCHASED FROM

RED SILVER MINE
723 SOUTH MENHAM
NAPA, CALIFORNIA

DATE 5/31/66
YOUR LOT NO.
OUR PURCHASE NO. 53395
F.O.B. SAN FRANCISCO
SHIPPED VIA YOUR DELIVERY

7 X 76# Flasks PRIME VIRGIN QUICKSILVER	@$315.00 Ea.	$2,205.00
4# Net PRIME VIRGIN QUICKSILVER	@$ 4.14#	$ 16.56
		$2,221.56
LESS FLASKS:		$ 14.00
		$2,207.56

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

5

PURCHASED FROM

RED SILVER MINE
723 SOUTH MENHAM
NAPA, CALIFORNIA

DATE 4/26/66
YOUR LOT NO.
OUR PURCHASE NO. 53397
F.O.B. SAN FRANCISCO
SHIPPED VIA YOUR DELIVERY

2 X 76# Flasks	PRIME VIRGIN QUICKSILVER	@$370.00 Ea.	$740.00
1 X 23# Flask	PRIME VIRGIN QUICKSILVER	@$ 4.86#	$111.78
			$851.78
		LESS FLASKS:	$ 4.00
			$847.78

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

3

PURCHASED FROM

RED SILVER MINE
723 SOUTH MENHAN
NAPA, CALIFORNIA

DATE 3/29/66
YOUR LOT NO.
OUR PURCHASE NO. 53783
F.O.B. SAN FRANCISCO
SHIPPED VIA YOUR DELIVERY

3 X 76# Flasks	PRIME VIRGIN QUICKSILVER	@$350.00 Ea.	$1,050.00
1 X 15# Flask	PRIME VIRGIN QUICKSILVER	@$ 4.60#	$ 69.00
			$1,119.00
	LESS FLASKS:		$ 6.00
			$1,113.00

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

PURCHASED FROM

RED SILVER MINE
723 SOUTH MENHAN
NAPA, CALIFORNIA

DATE MARCH 22, 1966
YOUR LOT NO.
OUR PURCHASE NO. 53758
F.O.B. SAN FRANCISCO, CAL.
SHIPPED VIA YOUR DELIVERY

4 x 76# Flasks PRIME VIRGIN QUICKSILVER	@ $370.00	$1,480.00
1 x 45½# Flask PRIME VIRGIN QUICKSILVER	@ $4.86#	221.13
		$1,701.13
Less flasks		10.00
		$1,691.13

169 11
169 11
8461
42283
625.00
1047 83

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

#1

PURCHASED FROM

RED SILVER MINE
452 38th STREET
RICHMOND, CALIFORNIA

DATE MARCH 15, 1966
YOUR LOT NO.
OUR PURCHASE NO. 53738
F.O.B. SAN FRANCISCO, CAL.
SHIPPED VIA YOUR DELIVERY

6 x 76#	Flasks	PRIME VIRGIN QUICKSILVER	@ $385.00	$2,310.00
1 x 37½#	Flask	PRIME VIRGIN QUICKSILVER	@ $5.06#	189.75
				$2,499.75
		LESS FLASKS		12.00
				$2,487.75

MANUFACTURER OF
BALLARD'S REAGENT MERCURY
BALLARD'S TRIPLE DISTILLED C. P. MERCURY
BALLARD'S REDISTILLED N. F. MERCURY
BALLARD'S SPECIALLY REFINED TECH. MERCURY

DEALERS IN
PRIME VIRGIN QUICKSILVER

BALLARD'S IMPROVED
AMALGAMATOR & PLATE DRESSING

QUICKSILVER PRODUCTS, INC.

556 CLAY STREET
SAN FRANCISCO 94111
SUTTER 1-1988

5404 ALHAMBRA AVENUE
LOS ANGELES 32
CAPITOL 5-2395

PURCHASED FROM

RED SILVER MINES
723 SOUTH MENAHEN
NAPA, CALIFORNIA

DATE 10/18/66
YOUR LOT NO.
OUR PURCHASE NO. 78211
F.O.B. S.F., Calif.
SHIPPED VIA Your Del.

6 x 76#	FLASKS PRIME VIRGIN	@ $515.00	$3,090.00
1 x 24#	Prime Virgin	6.77#	162.48
			$3,252.48
		Less Flasks	12.00
			$3,240.48

Settlement:

15%	Pope Valley Mines 7 Paris St. Newark, New Jersey		487.87
85%	Red Silver Mines	$2,764.61	2,752.61
	Less Flasks	12.00	
			$3,240.48

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

Boyles Bros. DRILLING COMPANY

CONTRACTORS-ENGINEERS-GEOLOGISTS

Highway 40 at Lincoln Turn-off
2½ Miles West of Auburn, California
P. O. Box 831 Auburn, California 95603
Phones: Office: (916) 885-6581
Home: Carmichael, Calif.
(916) 944-1697

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

BRANCH OFFICES
PHOENIX
RENO
SPOKANE
DENVER
SANTIAGO, CHILE
LIMA, PERU

March 14, 1968

Mr. Charles Massey
C/o Etna Quicksilver Mine Consolidated
Etna Springs Road
Pope Valley, California

Gentlemen:

After making an inspection trip of the area where drilling is to be done, our Mr. Fred Hall has recommended we submit the following proposal for this work.

1 - Mobilization and demobilization of equipment at job site. 700.00

2 - Rotary or diamond drilling, 25.00 per hour, operated and maintained with crew of 1 Driller-Foreman and 1 Helper.
Rental rate to start when equipment arrives at job site and continue in effect at 8 hours a day, 48 hours a week until work is completed. No deductions from this rate for servicing equipment or minor breakdowns not to exceed 1 hour in any one 8 hour shift. No charge for breakdowns in excess of 1 hour in any one 8 hour shift.

There will be an additional charge for all bits used, rods, casing, core barrels worn or damaged beyond repair, core boxes, cement, drilling mud or any other material used for drilling at our cost delivered to job, plus 15% overhead.

You supply reasonable access to work area including any dozer work that may be required on access roads or drill stations.

If required, a water hauling truck will be supplied at 250.00 a month, plus .15 a mile, plus driver's wages if an extra man required in addition to drill crew.

A 600 CFM rotary compressor will be supplied at 850.00 a month, plus fuel, oil and filters.

The general procedure we would follow in doing this drilling would be to drill the holes 5 5/8" diameter using either air or drilling mud to carry the cuttings out of the hole and using tricone bits. This size hole to be drilled to top of ore zone, then hole will

BOYLES BROS. DRILLING CO.

March 14, 1968

be cased with 4 inch ID casing and core drilling, NX size, through ore zone to required depth.

We trust this proposal will receive your favorable consideration. If you have any questions concerning it or the work, we would appreciate the opportunity of answering them.

Thank you for calling on us.

Very truly yours,

BOYLES BROS. DRILLING COMPANY

Peter Chesler by jg.

Peter Chesler, District Manager

PC/jg

cc: Manager Drilling Operations
Boyles Bros., S. L. C.

N. W. J. 2433. Wg. Bria Min. Surv.

#1

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 9 1968
INITIALS CODE

#571

FEILD NOTES

OF

The survey of the Silver Bow Quicksilver Mine, claimed by Silver Bow Mining Company, located in Pope Valley Mining District, Napa County, California, Townships 9 and 10 North, Range 6 West, Mount Diablo Meridian,

BY

T. J. Dewoody, U. S. Deputy Surveyor, under his instructions dated July 9, 1872.

Survey commenced August 17, 1872.

Survey completed August 17, 1872.

PRELIMINARY OATH OF ASSISTANTS.

We, A. G. Patton and John Knight, do solemnly swear that we will faithfully execute the duties of Chain Carriers; that we will level the chain upon ineven ground, and plumb the tally pins, whether by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines; that we will assist in measuring, to the best of our skill and ability, in the survey of the Silver Bow Quicksilver Mine, located in Pope Valley Mining District, Napa County, State of California.

A. G. Patton.

John Knight.

Subscribed and sworn to before me, this sixteenth day of August, 1872.

T. J. Dewoody,

U. S. Deputy Surveyor.

I, William B. H. Hyde, do solemnly swear that I will well and truly perform the duties of Axeman, according to instructions given me, and to the best of my skill and ability, in the survey of the Silver Bow Quicksilver Mine, in Pope Valley Mining District, Napa County, State of California.

Wm. B. H. Hyde.

Subscribed and sworn to before me, this sixteenth day of August, 1872.

T. J. Dewoody,

U. S. Deputy Surveyor.

FIELD NOTES

Of the final survey of the mining claim known as the

SILVER BOW QUICKSILVER MINE,

claimed by the Silver Bow Mining Company, located in Pope Valley Mining District, in Napa County, California, Townships 9 and 10 North, Range 6 West, Mount Diablo Meridian. Executed by T. J. Dewoody, U. S. Deputy Mineral Surveyor, under instructions from J. R. Hardenbergh, U. S. Surveyor-General, dated July 9, 1872.

Survey commenced August 17,1872.

Survey completed August 17, 1872

SURVEY OF EXTERIOR BOUNDARIES.

Beginning at a post on the north line of the Phoenix Mining Claim, at a post marked $\frac{\text{S. B. 1}}{46}$; from which corner Nos. 3 and 38 of Phoenix Quicksilver Mine bears

N. $65\frac{1}{4}^{\circ}$ W.,

8.07 chains.

An oak, 30 inches diameter, bears N. $5\frac{1}{2}^{\circ}$ W., 38 links distant.

Thence along the line of Phoenix Quicksilver Mine descending.

Variation $16\frac{1}{4}^{\circ}$ East.

S.65½° E.	1199.88 18.18	To post S. B. 2; from which 46 A laurel, 4 inches diameter, bears S. 24° W., 12 links distant. A laurel, 10 inches diameter, bears S. 59¼° W., 27 links distant. Thence ascending.
N.24 3/4° E.	1065.9 16.15	Top of ridge east. Descend.
	27.27	Station. Set post S. B. 3; from which 46 A pine, 30 inches diameter, bears N. 10¼° W., 63 links distant. A black oak, 18 inches diameter, bears S. 30½° W., 128 links distant. Thence ascending.
N.65½° W.	495' 7.50	Boarding house of miners, southwest, 30 links. 20' Station on ridge.
	1199.88 18.18	Set post S. B. 4; from which 46 An oak, 24 inches diameter, bears N. 68½° E., 221 links distant. A buckeye, 6 inches diameter, bears S. 61¼° E., 98 links distant. Thence ascending.
S.24 3/4° W.	10.71 706.86'	Cross township line 91 links east of 60.06'

quarter section post between sections 3 and 34, Townships Nos. 9 and 10 North, Range 6 West.

27.27 To place of beginning.

Containing 49.58 acres.

RECAPITULATION.

Station.	Courses.	Distance.	Remarks.
1.	S.65½°E.	18.18	To post S. B. 2/46 .
2.	N.24 3/4°E.	27.27	To post S. B. 3/46 .
3.	N.65½°W.	18.18	To post S.B. 4/46 .
4.	S.24 3/4°W.	27.27	To post S. B. 1/46 .
			Place of Beginning.

S.88¼° W. 462' 7.00

N.84 3/4° W. 454' 6.88

In order to locate the tunnel I went to corner No. 3 and Run S. 88¼° W., 7.00 chains. 462' Thence North 84 3/4° W., 6.88 chains to mouth of tunnel No. 2, course of which

S. 18° E.,

500 feet.

At 460 feet meets shaft 150 feet from tunnel No. 1, or upper tunnel, which is 170 feet long, course

S. 30° W.,

following ore seam.

Survey #13

125/21 21

E. V. T. Pat. No. 191.

#2

Phoenix Arizona Ter.

We, C. B. Sharp and Ezra Carpenter do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain upon uneven ground and plumb the tally pins, whether by sticking or dropping the same; and that we will report the true distance to all notable objects and the true lengths of all lines we may assist in measuring, to the best of our skill and ability.

C. B. SHARP CHAINMAN

EZRA CARPENTER CHAINMAN.

Subscribed and sworn to before me this 25th, day of May 1869.

T. J. DEWOODY,

U. S. Deputy Surveyor.

I, John Newman do solemnly swear that I will well and faithfully execute the duties of axeman, according to the instructions given me, to the best of my skill and ability.

JOHN NEWMAN AXEMAN.

Subscribed and sworn to before me, this 25th, day of May 1869.

T. J. DEWOODY,

U. S. Deputy Surveyor.

MINERAL DISTRICT NO. 11. CLAIM SURVEY NO. 38.

Ser. No. 13

Field notes of a survey of a Quicksilver Mining Claim known as the Phoenix Quicksilver Mine, situated in Pope Valley Mining District of Napa County in the Mineral District No. 11 of California in Township No. 9 North, Range No. 6 West, Mount Diablo Meridian, as executed by T. J. Dewoody, Deputy Surveyor of said Mining District in the month of May 1868, under instructions of date of May 14, 1868, issued at request of C. Hartron of Napa.

Survey began May 25, 1868.

Beginning at a post marked P. 1 and 38 in a mound of stones, from which a pine 12 in. dia. bears S. 73° W. 67 lks. dist. Thence N 243/4 East, 18.18 chs. to a stake 1199.88'
P. 2 and 38 in a mound of stones, from which an oak 18 in. dia. bears S. 34½° W. 43 lks. dist.
Corner to sections 2, 3, 34 and 35 bears N. 16½ W. 43.96 = 2901.36
chs. Thence N. 65½° W. 65.50 (4323) top of high ridge.
4769.52 — 7272 to stake P. No. 3 and 38, from which
A fir 2 ft. dia. bears S. 37.30 E. 29 lks. dist.
A fir 30 in. dia. bears N. 86° W. 79 lks. dist.
Thence
S. 24 3/4 W. 18.18 (1199.88) to a post P. 4 and 38, from which
A pine 10 in. dia. bears S. 83° E. 16 lks. dist.
A live oak 8 in. dia. bears S. 6½° E. 17 lks. dist.
Thence
S. 65½° E. at 7 chs. top of mountains.
72.72 to the place of beginning.
Containing 132.20 acres.

No.	Course.	Distance.		
1.	N.24$\frac{3}{4}$° E.	18.18	Post	2/38
2.	N.65$\frac{1}{2}$° W.	72.72	"	P. 3/38
3.	S.24$\frac{3}{4}$ W.	18.18	"	P 4/38
4.	S.65$\frac{1}{2}$° E.	72.72	"	P 1/38

Survey completed May 25, 1868.

OFFICE OF THE U. S. DEPUTY SURVEYOR,
Mineral District No. 11,
State of California, June 5, 1868.

T. J. Dewoody, U. S. Deputy Surveyor in and for Mineral District No. 11, duly appointed and qualified, do hereby certify that in pursuance of instructions from the office of the U. S. Surveyor General for California of date the 14th, day of May 1868; issued at the request of C. Hartson, and in strict accordance with the laws of the United States and the instructions of the Surveyor General, I have well and faithfully in my own proper person surveyed the mining claim known as the Phoenix Quicksilver Mine, situated in the Pope Valley Mining District of Napa County, in said Mineral District No. 11, of the State of California that said survey was made in the month of May 1868; that the boundary monuments have been duly established as per said instructions and that the foregoing are the true and original field notes of said survey and I further certify that the labor and improvements spent and made upon said claim exceed a thousand dollars; and that the character of the vein exposed is as hereinafter stated and approved by the affidavit of J. F. Lamdin and F. K. Turner hereunto annexed.

There are four tunnels run into the mountain side, all of which have struck ore, the respective lengths

as follows:-

No. 1 is 140 feet. No. 3 is 200 feet.

No. 2 " 400 feet No. 4. " 120 feet.

There is a bench of 4 retorts.

The ore is found in seams nearly verticle.

Timber is plenty about a mile from the mine.

Elevation about 1500 feet above the sea.

There is a good wagon road to the mine.

Specimens of the ore are herewith submitted, they are the Sulphite and Selenite of Mercury and Native Quicksilver.

The cinnabar is not found in any regular veins or lodes like gold and silver bearing quartz, but so far as my observation in this it is found in seams and pockets in serpentine or metamorphic rock, there generally being evidence of volcanic action nearby, in Pope Valley District, the metamorphic formation lies in a northwestern direction about a mile wide with a volcanic ridge on the south side and serpentine on the north and extends in a northwesterly direction to beyond the geysers. The Pittsburgh mine Survey No. 37 is on the same formation but there it is about two miles wide and so far as I can learn most of the claims were located wherever any cinnabar was found, mostly by guess, following a ridge or any ledge that cropped out, without regard to direction and thousands of dollars have been spent running tunnels at random. I cannot certify that there is only one lode or any lode of cinnabar unless it be the whole extent of the metamorphic formation above described as cinnabar is found in small quantities all over it. They have crossed

several seams in the Phoenix tunnels containing thin layers of ore, but the general character of the rock is nearly the same through the whole length of the tunnel.

" The length of the survey is more than three thousands feet" but was located and worked before the law of Congress was passed, said location being made according to the mining laws of the district.

And I further certify that no portion of this claim is embraced within the boundaries of any other claim, nor does this claim include within its boundaries any portion of another claim.

(SIGNED) T. J. DEWOODY,
U. S. Deputy Surveyor,
Mineral District No. 11, of Cal.

STATE OF CALIFORNIA,
COUNTY OF NAPA.

J. F. Lamden and F. K. Turner being duly sworn depose and say that they are residents of Napa County and State of California; that they have each visited the Phoenix Quicksilver Mine in Pope Valley in said County and are familiar with the character of the vein or ledge of said mine and that the vein exposed is cinnabar containing a working percentage of quicksilver.

(SIGNED) JOS. F. LAMDEN.
F. K. TURNER.

Sworn to and subscribed before me this 20th, day of June A. D. 1868.

LOUIS BUISK,
Notary Public.

(SEAL)

U. S. SURVEYOR GENERAL'S OFFICE,

San Francisco, Jan. 5, 1871.

I hereby certify that the foregoing transcript of the field notes of the survey of the Phoenix Quicksilver Mine by Thos. J. Dewoody, Deputy Surveyor under instructions of May 14, 1868 and the affidavit of Jos. F. Lamden and F. K. Turner annexed, are full true and correct copies of the original on file in this office.

SHERMAN DAY,

U. S. Surveyor General,

(SEAL) For Cal.

We do hereby certify that we assisted T. J. Dewoody U. S. Deputy Surveyor, in surveying the boundary lines of the Phoenix Quicksilver Mine, situated in the County of Napa in the State of California, and that said Mining Claim has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the boundary monuments established according to the laws of the United States, and the instructions of the Surveyor General.

C. B. SHARP CHAINMAN.
EZRA CARPENTER CHAINMAN.
JOHN NEWMAN AXEMAN.

Subscribed and sworn to before me this 26th, day of May 1869.

T. J. DEWOODY,
U. S. Deputy Surveyor.

I, T. J. Dewoody, U. S. Deputy Surveyor, do solemnly swear that in pursuance of instructions from L. Upson, U. S. Surveyor General for the State of California, bearing date the ------day of--------18 and in strict conformity to the laws of the United States and the said instructions from the Surveyor General, I have well and faithfully surveyed the boundary lines of the Phoenix Mining Claim situated in the County of Napa in the State of California, and finally confirmed to Phoenix Mining Company and I do further solemnly swear that the foregoing are the true and original field notes of said survey.

T. J. DEWOODY,
U. S. Deputy Surveyor.

#3

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Survey #1

TRANSCRIPT OF THE FIELD NOTES.

Survey of the Washington Quicksilver Mine,
Napa County, California,

By

T. J. DEWOODY.

Received G.L.O. Aug. 24, 1870 with Sur. Genl's letter of Aug. 16, 1870.

TN 6 W - M. D. M.

We, Jacob Elsbury and Ezra Carpenter, do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain upon uneven ground and plumb the tally pins, whether by sticking or dropping the same; and that we will report the true distances to all notable objects, and the true lengths of all lines we may assist in measuring to the best of our skill and ability.

JACOB ELSBURY CHAINMAN.

EZRA CARPENTER CHAINMAN.

Subscribed and sworn to before me this 2nd, day of April 1869.

T. J. DEWOODY,

U. S. Deputy Surveyor.

I, Daniel Patton do solemnly swear that I will well and faithfully execute the duties of axeman, according to the instructions given me, to the best of my skill and ability.

DANIEL PATTON AXEMAN.

Subscribed and sworn to before me this 2nd, day of April 1869.

T. J. DEWOODY,

U. S. Deputy Surveyor.

MINERAL DISTRICT NO. 11. CLAIM SURVEY NO. 39.

Field Notes of a Survey of a Quicksilver Mining Claim, known as the Washington Quicksilver Mine, situated in the Pope Valley Mining District of Napa County in the Mineral District No. 11 of California, being in township 9 North, Range 6 West, Mount Diablo Meridian, sections 2 and 11, as executed by T. J. Dewoody, Deputy Surveyor of said Mineral District No. 11 in the month of April 1869, under instructions of date March 19, 1869. Issued at request of W. W. Stillwaggon.

Survey begun April 2, 1869.

Va. 16¼° East.

Beginning at the corner to sections 1, 2, 11 and 12, thence North 22 chs., thence West

Va. 16¼° East.

20.00 chs. Set post marked W. from which an oak 18 in. dia. bears S. 66° E. 139 lks. dist.

A black oak 15 in. dia. bears S. 72½° W. 222 lks. dist.

Thence

South 19.08 Set post W. N. 2, from which an oak 3 in. dia. bears S. 4½° W. 62 lks. dist.

An oak 24 in. dia. bears N. 53° E. 330 lks. dist.

Thence

N. 87½° W. 57.02. Set post W. No. 3, from which corner No. 4 of Phoenix Quicksilver Mine Survey bears N. 24 3/4° E. 200 lks. distant.

No tree convenient. I make a mound of stones around the post.

Thence

N. 24 3/4° East 18.64 chs. Set post W. 4, from which An oak 10 in. dia. bears S. 59 W. 37 lks. dist.

A black oak 8 in. dia. bears N. 33½° E. 41 lks. dist.

Post P. 2 bears N. 24 3/4 E. 154 lks. dist.

Thence

N. 78° E. 12.53 chs. to an oak 4 in. dia. marked W.

Thence

N. 65½° E. 14.08 to post in mound of stones, there being no tree convenient. W. No. 6.

Thence

S. 70½° E. 25.30 chs. to post W. No. 1 the place of beginning.

Containing 114 79/100 acres.

No.	Course.	Distance.	Remarks.
1.	South	19.08	To post W. No. 2.
2.	N.87½° W.	57.02	To post W. No. 3.
3.	N.24 3/4 E	18.64	To post W. No. 4.
4.	N.78° E	12.53	To post W. No. 5.
5.	N.65½ E.	14.08	To post W. No. 6
6.	S.70½ E	25.30	To post W. No. 1.

Survey completed April 3, 1869.

The depth of the tunnel on the claim is 400 feet.

No process of working ore. No assay.

Lead has been traced the whole length of the claim.

There is a furnace for reducing ores, capacity 10 tons.

No pumps.

Ore is found in pockets or chambers.

Plenty of timber.

Elevation about 200 feet above Popo Valley.

There is a Wagon road over it.

OFFICE OF U. S. DEPUTY SURVEYOR,

Mineral District No. 11,

California, Sept. 3, 1868.

I, T. J. Dewoody, U. S. Deputy Surveyor in and for Mineral District No. 11, duly appointed and qualified do hereby certify that in pursuance of instructions from the office of the U. S. Surveyor General for California of date the 19th, day of March 1869, issued at the request of W. W. Stillwaggon and in strict accordance with the laws of the United States, and the instructions of said Surveyor General, I have well and faithfully in my own proper person surveyed the Washington Quicksilver Mining claim, situated in the Pope Valley Mining District, of Napa County, in said Mineral District No. 11 of the State of California.

That said survey was made in the month of April 1869; that the boundary monuments have been duly established as per said instructions; and that the foregoing are the true and original field notes of said survey.

And I do further certify that the value of the labor and improvements spent and made upon said claim exceeds a thousand dollars; and that the character of the vein exposed is as herein before stated and approved by the affidavits of and hereunto annexed.

T. J. DEWOODY,

U. S. Deputy Surveyor,

Mineral District No. 11 Cal.

We do hereby certify that we assisted T. J. Dewoody U. S. Deputy Surveyor, in surveying the boundary lines of the Washington Quicksilver Mine, situated in the County of Napa, in the State of California; and that said mine has been in all respects to the best of our knowledge and belief, well and faithfully surveyed, and the boundary monuments established according to the laws of the United States; and the instructions of the Surveyor General.

JACOB ELSBURY CHAINMAN.
EZRA CARPENTER CHAINMAN.
DAN PATTON AXEMAN.

Subscribed and sworn before me this 3rd, day of April 1869.

T. J. DEWOODY,
U. S. Deputy Surveyor.

I, T. J. Dewoody, U. S. Deputy Surveyor do solemnly swear that in pursuance of instructions from L. Upon, U. S. Surveyor General for the State of California bearing date the 19th, day of March 1869; and in strict conformity to the laws of the United States and the said instructions from the Surveyor General, I have well and faithfully surveyed the boundary lines of the Washington Quicksilver Mine, situated in the County of Napa, in the State of California, and I do further solemnly swear that the foregoing are the true and original field notes of said survey.

T. J. DEWOODY,
U. S. Deputy Surveyor.

Subscribed by said T. J. Dewoody, U. S. Deputy Surveyor and sworn to before me, a Notary Public in and for the County of Napa in the State of California this 31st, day of May 1869.

LOUIS BUICK,

(SEAL) Notary Public.

We hereby certify that the lode claimed by the Washington Quicksilver Mining Company is cinnabar bearing, and the cost of labor and improvements thereon is not less than one thousand dollars; and we further certify that no portion of the claim is embraced within the boundaries of any other claim, nor does this claim include within its boundaries any portion of another claim.

DAN PATTON.

T. J. DEWOODY.

Subscribed and sworn to before me this 16th, day of July A. D. 1869.

C. B. SHELEY,

(SEAL) County Clerk, Napa County, Cal.

We the undersigned are acquainted with the character of the mineral on the claims of the Washington Quicksilver Cos' located in Pope Valley District, Napa County, California and hereby certify that the mineral is cinnabar or quicksilver ore.

E. N. BOYNTON.

W. W. STILLWAGGON.

Napa County, California. June 4, 1869.

Sworn to and subscribed before me this 4th, day of June A. D. 1869.

(SEAL) LOUIS BUICK, Notary Public,

Napa County, Cal.

E. V. T. Pat. No.502.

#4

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F I E L D N O T E S

-OF-

The Red Hill Quicksilver Mining Claim in Pope Valley Mining District, California,

-By-

T. J. DEWOODY,

Deputy Surveyor.

Under his contract of July 17, 1871.

Survey commenced July 26, 1871.

Survey completed July 28, 1871.

We, Jacob Elsbury and Daniel Patten having been appointed chainmen to assist T. J. Dewoody, U. S. Deputy Surveyor in surveying the Red Hill Quicksilver Mining Claim in Pope Valley Mining District, do solemnly swear that we will faithfully execute the duties of chain carriers; that we will level the chain upon uneven ground and plumb the tally pins whether by sticking or dropping the same; that we will report the true distance to all notable objects and the true length of all lines; that we will assist in measuring to the best of our skill and ability.

JACOB ELSBURY.

DANIEL PATTEN.

Subscribed and sworn to before me this 27th, day of July 1871.

T. J. DEWOODY,

U. S. Deputy Surveyor.

I, W. W. Stillwagon do solemnly swear that I will well and truly perform the duties of axeman, according to instructions given me and to the best of my skill and ability.

W. W. STILLWAGON.

Subscribed and sworn to before me this 27th, day of July 1871.

T. J. DEWOODY,

U. S. Deputy Surveyor.

MINERAL DISTRICT NO. 11. CLAIM SURVEY NO. 43.

FIELD NOTES

Of a survey of a Quicksilver Mining Claim known as the Red Hill Quicksilver Mine in Pope Valley Mining District in Napa County, in Mineral District No. 11 of California in sections 2 and 3, Township 9 North, Range 6 West and sections 34 and 35 of Township 10 North, Range 6 West as executed by T. J. Dewoody, Deputy Surveyor of said Mineral District No. 11 in the month of July 1871, under instructions of date July 17, 1871, issued at the request of R. Burnell.

Survey began July 26, 1871.

Beginning at the northeast corner of the Phoenix Mining Claim, a post marked "P" 2 and 38 and R. H. 2 and 43 in a mound of stone; from which
A pine 12 in. dia. bears S. 73° West 67 lks. dist.
Tunnel No. 3 bears N. 40° W. 8 chains distant.
Tunnel No. 4 bears N. 35 W. 8.60 chs.

Thence

Variation 16½° East.

North 7° West 36.50 top of ridge, descend
42.76 Intersect line between townships 9 and 10 North, Range 6 West, 7 chains East of the corner to sections 2, 3, 34 and 35, set post R. H. 3 and 43; from which
An oak 12 in. dia. bears N. 56½ W. 24 lks. dist.
An oak 10 in. dia. bears N. 15½ E. 40 lks. dist.

Thence

North 65¼ West 12.00 ridge North descend mouth of tunnel No. 5, S. 24° W. 260 lks. dist.
23.97 Set post R. H. 4 and 43; from which
An oak 8 in. dia. bears N. 50½ E. 11 lks. dist.

Thence ascending.

South 24 3/4 West at 9.09 chains NE. corner of Silver

Bow Mining Claims.

11.00 Tunnel No. 2 bears S. 65¼ E. 820 lks. dist.

16.00 Top of ridge East descend.

34.00 Ravine course northeast, ascend

36.36 A line of Phoenix Quicksilver Mining Claim,

Set post R. H. 1 and 43 ; from which

A laurel 4 in. dia. bears N. 24½° W. 12 lks. dist.

A laurel 10 in. dia. bears S. 59½° W. 27 lks. dist.

Thence along the line of the Phoenix Mining Claim.

South 65½° East at 12 chs. house to left 2 chains.

34.50 Mouth of tunnel No. 1 to left 360 links.

46.47 To the place of beginning.

Containing 138 6/100 acres.

Nos.	Courses.	Distances.
1	N. 7° W.	43.76
2	N.65½°W.	34.97
3.	S.24½°W.	36.36
4.	S.65½°E.	46.47

Survey finished July 28, 1871.

OFFICE OF THE U. S. DEPUTY SURVEYOR,

Mineral District No. 11, Cal.

August 8, 1871.

I, T. J. Dewoody, U. S. Deputy Surveyor in and for Mineral District No. 11, duly appointed and qualified do hereby certify that in pursuance of instructions from the office of the U. S. Surveyor General for California of date of the 17th, day of July 1871, issued at the request of R. Burnell and in strict accordance with the laws of the United States and the instructions of said Surveyor General, I have well and faithfully in my own proper person surveyed the Red Hill Quicksilver Mining Claims in Pope Valley Mining District of Napa County, in said Mineral District No. 11 of the State of California; that said survey was made in the month of July 1871; that the boundary monuments have been duly established as per said instructions and that the foregoing are the true and original field notes of said survey; and I further certify that the value of the labor and improvements spent and made upon said claim is equal to four hundred dollars and that the character of the vein exposed is as herein before stated and approved by the affidavits of W. W. Stillwagon and Daniel Patten hereunto annexed.

T. J. DEWOODY,

U. S. Deputy Surveyor,

Mineral District No. 11, California.

We hereby certify that we assisted T. J. Dewoody, Deputy Surveyor in surveying the Red Hill Quicksilver Claim in Pope Valley Mining District in Napa County, and that said Mining Claim has been in all respects, to the best of our knowledge and belief well and faithfully surveyed and the boundary monuments planted according to the instructions furnished by the Surveyor General.

W. W. STILLWAGON.

JACOB ELSBURY.

DANIEL PATTEN.

Subscribed and sworn to before me this 30th, day of July A. D. 1871.

T. J. DEWOODY,

U. S. Deputy Surveyor.

U. S. LAND OFFICE,

San Francisco, California,

July 17, 1871.

I, hereby certify that the notice and diagram of the Red Hill Quicksilver Mining Company was filed in this office November 16, 1871 and posted in this office for a period of 90 days and that no adverse claims have been filed and that the notice of intention to apply for a patent has been posted in a conspicuous place on the claim and published in the Napa Register for 90 days and the expenses therefor paid.

H. G. ROLLINS,

Register.

U. S. SURVEYOR GENERAL'S OFFICE,

San Francisco, California,

September 18, 1871.

The foregoing field notes of the surveys of Red Hill Quicksilver Mining Claim, in Pope Valley Mining District, Mineral District No. 11. Claim surveyed No. 43 in the State of California, executed by T. J. Dewoody, U. S. Deputy Surveyor, under his contract dated July 17, 1871 having been critically examined, and the necessary corrections and explanations made, the said field notes and the surveys they describe are hereby approved.

J. R. HARDENBERGH,

U. S. Surveyor General for California.

U. S. SURVEYOR GENERAL'S OFFICE,

San Francisco, October 11, 1871.

I, J. R. Hardenbergh, U. S. Surveyor General for California, do hereby certify that the foregoing transcript is a full, true and correct copy of the original field notes, as the same remains of record and on file in this office.

Attest my hand and official seal, the day and date herein above written.

J. R. HARDENBERGH,

(SEAL) U. S. Surveyor General for Cal.

By J. A. ROBINSON,

Chief Clerk.

E.L.P. Patent No. 2440.

#5

488 -

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F I E L D N O T E S

OF

the Survey of the Pope Quicksilver Mining Claim.

Claimed by Pope Mining Company

Located in Pope Valley Mining District, Napa County, California,

Township 9 North, Range 6 West, Mount Diablo Meridian,

BY

T. J. Dewoody, U. S. Deputy Surveyor,

under his instructions dated July 9, 1872.

Survey commenced August 17, 1872.

Survey completed August 17, 1872.

PRELIMINARY OATH OF ASSISTANTS,

We, A. G. Patton and John Knight, do solemnly swear that we will faithfully execute the duties of Chain Carriers; that we will level the chain upon uneven ground, and plumb the tally pins, whether by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines; that we will assist in measuring, to the best of our skill and ability, in the survey of the Pope Quicksilver Mine, in Pope Valley Mining District, of Napa County, California.

A. G. Patton

John Knight

Subscribed and sworn to before me, this 16th day of August, 1872.

T. J. Dewoody, U. S. Deputy Surveyor.

I, Wm. B. H. Hyde, do solemnly swear that I will well and truly perform the duties of Axeman according to instructions given me, and to the best of my skill and ability, in the survey of the Pope Quicksilver Mine, in Pope Valley Mining District, of Napa County, California.

Wm. B. H. Hyde

Subscribed and sworn to before me, this 16th day of August, 1872.

T. J. Dewoody, U. S. Deputy Surveyor.

F I E L D N O T E S

Of the final Survey of the Mining Claim known as the

Pope Quicksilver Mining Claim

Claimed by the

Pope Mining Company.

Located in Pope Valley Mining District, in Napa County, California, in Section 2, Township No.9 North, Range No. 6 West, Mount Diablo Meridian.

Executed by T. J. Dewoody, U. S. Deputy Mineral Surveyor, under instructions from J. R. Hardenbergh, U. S. Surveyor General, dated July 9, 1872.

Survey commenced August 17, 1872.

Survey completed August 17, 1872.

		Beginning at a post $\frac{P1}{45}$ in a mound of stones, on the North boundary of the Washington Mine, from which Post W. beginning of Washington Mine bears S.70¼° E. 13.27 chs. dist. Thence, ascending
		Variation 16½° E.
N. 5-3/4' W.	45.45	At 10.00 chs. top of Ridge East.
		At 18.00 chs. creek in Ravine -- mouth of tunnel No. 1 bears N. 68° W. 5.35 chs.
		At 29.00 chs. top of Ridge East.
		At 36.30 chs. bottom of Ravine.
		At 39.00 chs. top of Ridge E.

		At 43.50 chs. Bottom of Ravine E.
		At 45.45 chs. Station. Set stake $\frac{P2}{45}$, from which
		An Oak, 18 in. dia. bears S. 55¼° W. 34 links dist. Thence,
S. 84¼° W.	18.18	At 9.25 chs. bottom of Ravine, S.E.
		At 18.18 chs. Station. Set post $\frac{P3}{45}$, from which
		A Black Oak, 18 in.dia. bears S.20-3/4° E. 51 links distant, Thence
S.5-3/4° E.	42.31	At 4.00 chs. top of Ridge E.
		At 8.40 chs. bottom of Ravine.
		At 15.00 chs. top of Ridge E.
		At 22.00 chs. bottom of Ravine E.
		At 31.00 chs. top of Ridge E.
		At 42.31 chs. intersect line of Washington Mine. Set post $\frac{P4}{45}$, from which
		An Oak, 24 in. dia. bears N. 70-3/4° E. 79 links distant. Thence,
		Along line of Washington Mine
N.65¼° E.	7.20	To post W. No.6 of Washington Mine. Set post $\frac{P5}{45}$ in mound of stones.
		Tunnel No.2 bears N.58° E. 3.35 links.

			Tunnel No.3 bears N. 32° E., 4.80 chs. Thence
	S.70¼° E.	12.03	To the place of beginning.
			Containing 75.69 acres.

Stations.	Courses.	Distance.	Recapitulation. Remarks.
1	N. 5-3/4° W.	45.45	To post $\frac{P2}{45}$
2	S. 84¼° W.	18.18	To post $\frac{P3}{45}$
3	S. 5-3/4° E.	42.31	To post $\frac{P4}{45}$
4	N. 65¼° E.	7.20	To post $\frac{P4}{45}$
5	S. 70¼° E.	12.03	To post $\frac{P1}{45}$ place of beginning.

REPORT.

The formation that contains the Cinnabar in this mine is Metaphoric Serpentine, and is scattered over a large tract of country, all of which is covered by mining claims, the croppings being in mass and not in "lodes," like Quartz mines, unless the whole belt of metamorphic rock extending from the head of Pope Valley to the Geysers, and varying from one mile to five in width, may be called a Lode, as veins of Cinnabar have been discovered all over that distance.

The improvements on this Mine consist of a house and three tunnels of the respective lengths of 80 feet, 200 feet and 150 feet; in the first and third they have found cinnabar, but not in paying quantities, but are still at work.

The amount of money expended in labor and improvements exceeds a thousand dollars.

T. J. Dewoody
U. S. Deputy Mineral Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed to assist in running, measuring, or marking the lines and corners described in the foregoing Field Notes of the Mining Claim known as the Pope Quicksilver Mine, Located in Pope Mining District, Napa County, State of California, showing the respective capacities in which they acted.

A. G. Patton, Chainman
John Knight, Chainman,
Wm. B. H. Hyde, Axeman.

FINAL OATHS OF ASSISTANTS.

We hereby certify that we assisted T. J. Dewoody, U. S. Deputy Surveyor, in surveying the mining claim known as the Pope Quicksilver Mine, claimed by Pope Mining Company, located in Pope Valley Mining District, Napa County, State of California, Township No.9 North, Range 6 West, Mount Diablo Base and Meridian and that said Survey has been in all respects, to the best of our

knowledge and belief, well and faithfully surveyed, and the boundary monuments planted according to the instructions furnished by the Surveyor-General.

A. G. Patton, Chainman
John Knight, Chainman.
Wm. B.H. Hyde, Axeman.

Subscribed and sworn to before me this)
17th day of August, 1872.)

T. J. Dewoody,
U.S.Deputy Mineral Surveyor.

FINAL OATH OF DEPUTY SURVEYOR.

I, T. J. Dewoody, Deputy Surveyor, do solemnly swear that, in pursuance with instructions from J. R. Hardenbergh, United States Surveyor-General for California, bearing date the 9th day of July, 1872, I have well, faithfully and truly, in my own proper person, and in strict conformity with the instructions furnished by the Surveyor-General, the Surveying Manual, and the laws of the United States, surveyed all those parts or portions of the Mining claim known as the Pope Quicksilver Mine, claimed by Pope Mining Company, located in Pope Valley Mining District, Napa County, State of California, Township No.9 North, Range No.6 West, Mount Diablo Base and Meridian, as are represented in the foregoing Field Notes as having been surveyed by me, and under my directions; and I do further solemnly swear

that all the corners of said surveys have been established and perpetuated in strict accordance with the Surveying Manual and printed instructions, and that the foregoing are the true and original Field Notes of such Survey.

T. J. Dewoody, U.S.Deputy Mineral Surveyor.

Subscribed and sworn to before me, this 27th day of August, 1872.

Parker Crittenden

Notary Public.

Notarial
SEAL.

REGISTER'S CERTIFICATE TO SURVEYOR GENERAL.

(Duplicate to be sent to Commissioner of the General Land Office with the final papers.)

U. S. Land Office at San Francisco, Cal.

July 8, 1872.

U. S. Surveyor General at San Francisco, Cala.

Sir:

In the matter of the application filed in this office on the 30th day of December, 1871, by Pope Mining Company, of Pope Valley Mining District, Napa County, California, for a patent, under the mining acts of Congress, for 3000 linear feet of the Quicksilver vein or lode, with surface ground 1200 feet in width, the same being 600 feet on each side of the center of the supposed line of the lode, and known as the "Pope" Mining Claim, situate in Pope Valley Mining

District, Napa County, State of California,

I hereby certify, that the records and files of this office show that said application for patent, together with a copy of the diagram and notice thereof, were filed in this office on the 30th day of December, A.D.1871;

That on the same day said copy of diagram and notice were posted in this office in a conspicuous place, and remained so posted until the 8th day of July, A.D. 1872, being the full period of ninety consecutive days;

That on the 18th day of December, A. D. 1871, a copy of said diagram and notice were posted in a conspicuous place upon the said claim, to wit: upon a Fir Tree, near the mouth of the tunnel and remained so posted until the 30th day of April, A. D. 1872, being the full period of ninety consecutive days.

That upon the order of the Register of this office, a copy of said notice, specifying the premises sought to be patented, was published in the Napa Register, a weekly newspaper published at Napa City, Cala.,for the full period of ninety consecutive days, towit: The first publication of said notice appearing in the issue of said paper, dated the 13th day of January, 1872, and the last publication thereof appearing in the issue of date the 13th day of April, 1872, said publication being made in every issue of said newspaper between said dates;

That no claim or demand exists against the United States Government for the expense of such publication, all right to make such claim being waived by express agreement duly filed with said application.

And I do further certify, that no adverse claim to

the premises sought to be patented as aforesaid, nor to any portion thereof, has been filed in this office; and that the applicants aforesaid are entitled to have a survey executed of the said premises substantially as described and set forth in said diagram and notice.

H. G. Rollins

Register.

U. S. SURVEYOR-GENERAL'S OFFICE,

San Francisco, Cal., November 14,1872.

The foregoing Field Notes of the Surveys of the Pope Quicksilver Mining Claim, claimed by the Pope Mining Company, located in Pope Valley Mining District, Napa County, Township No.9 North, Range No.6 West, Mount Diablo Meridian, in the State of California, executed by T.J. Dewoody, U. S. Deputy Surveyor, under his instructions dated July 9th, 1872, having been critically examined, and the necessary corrections and explanations made, the said Field Notes and the Surveys they describe are hereby approved.

J. R. Hardenbergh,

U.S.Surveyor-General for California.

U. S. SURVEYOR-GENERAL'S OFFICE,

San Francisco, November 20, 1872.

I, J. R. Hardenbergh, U. S. Surveyor-General for

California, do hereby certify that the foregoing transcript is a full, true and correct copy of the original Field Notes, as the same remains of record and on file in this office.

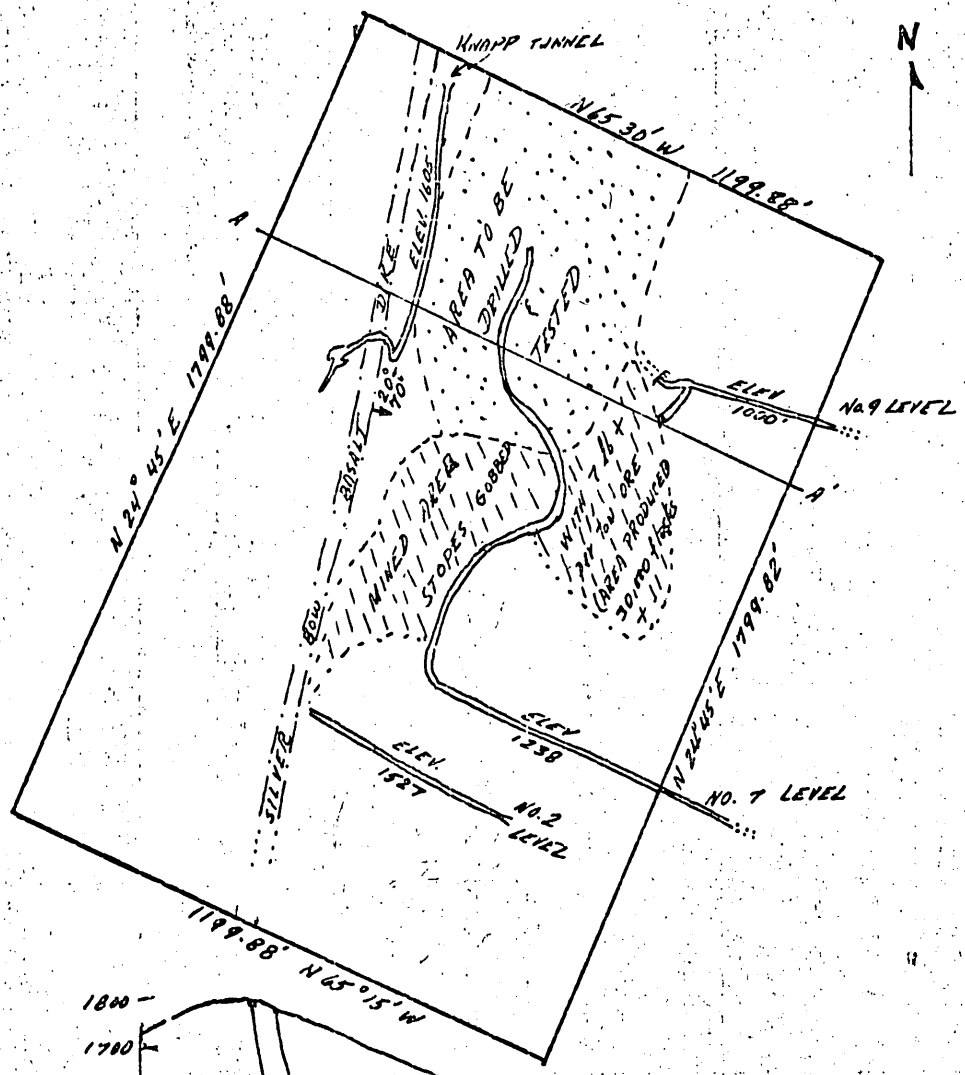
Attest my hand and official seal
the day and date herein above written.

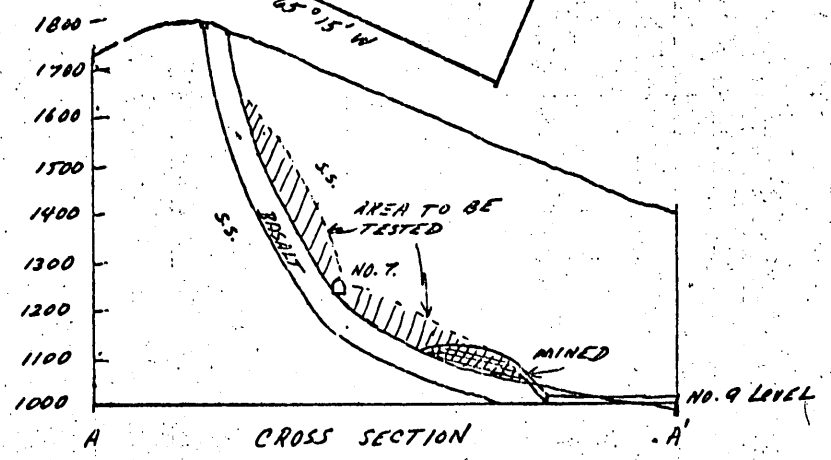
J. R. Hardenbergh

U.S.Surveyor-General for
California.

SEAL

SILVER BOW CLAIM QS.M
LOT 43
NAPA CTY. CALIF.



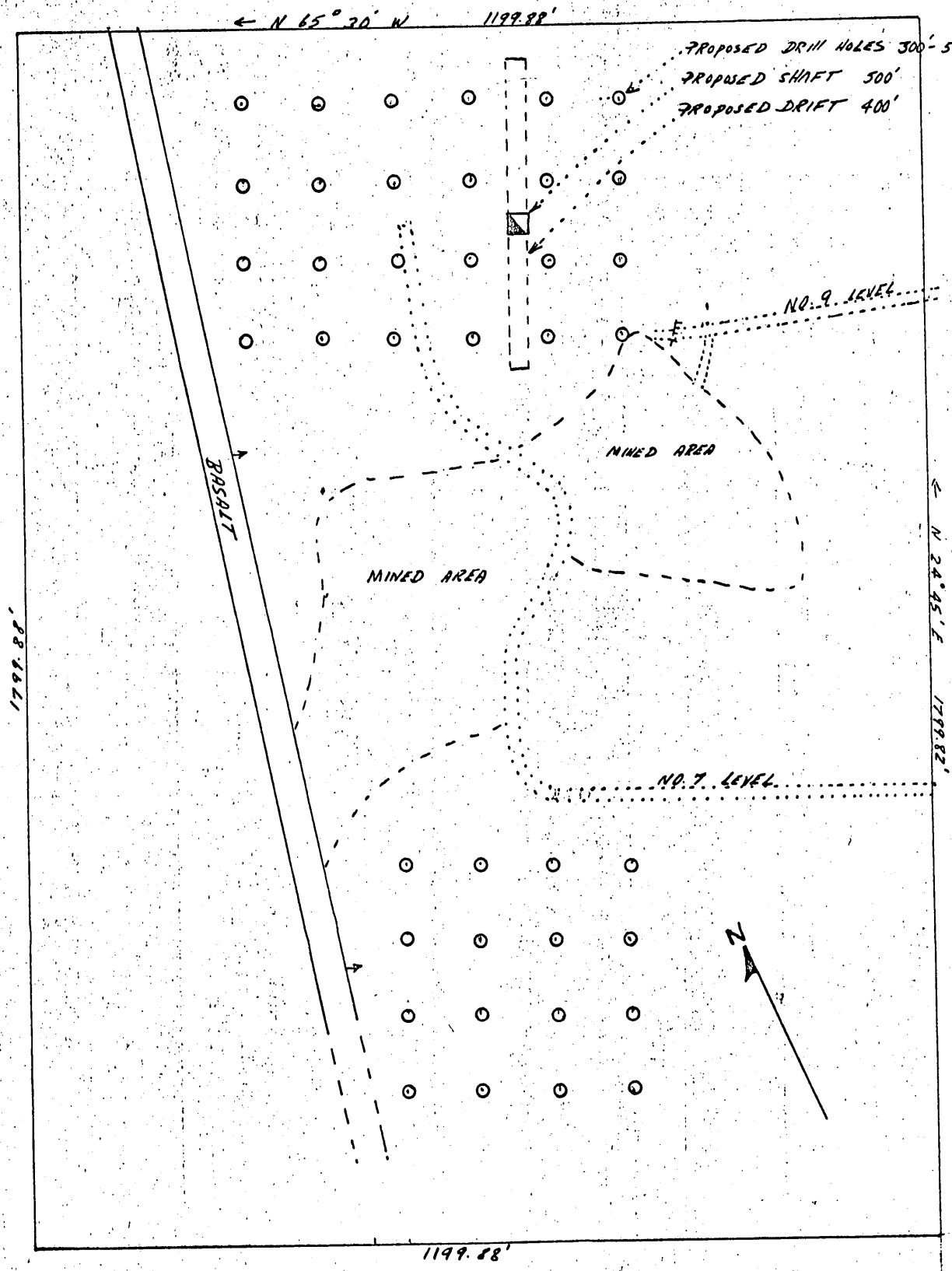


CROSS SECTION

SCALE 1" = 400'

PLAT - 1

SILVER BOW CLAIM "QUICKSILVER"



SCALE 1" = 200'

PLAT SHOWING PROPOSED WORK FOR EXPLORATION

PLAT - 2

3. PHYSICAL DESCRIPTION

(a) Refer to Plat 1, Calif State Geol. Sur. map, and geological report. At the present there are no mining operations or exploration programs being conducted. There are no production facilities or reduction plants on or near the property, as the old plants have long since been torn down.

(b) The workings (inaccessable) are totaly owned by Aetna Quicksilver Mines Consolidated.

(c) The Aetna Mine has produced over 66,000 flasks of mercury. About 33,000 flasks have been produced from the Silver Bow claim itself. No current production.

(d) No known ore reserves in new ground are known to exist at the present. It is reported the the old and presently inaccessable stopes were gobbed with about 7 pound per ton Hg rock and that upwards of 50,000 tons of this material may be eventually extracted. Refer to plat 1.

(e) The Silver Bow claim contains the "Silver Bow Dike", a 50 to 100 foot thick basalt intrusive striking approximately north and south running nearly the full length of the property and dipping steeply to the east in its upper reaches and flattening to a near 20 degree dip at depth. The ore mined in the past occurred in basalt near the surface, and at depth the ore occupied the contact of the footwall sediments it has intruded. Where the basalt flatened in dip, the best ore was encountered, existing as bedded appearing zones to 20 feet in thickness. Refer to plat 1 and 2, and geol. report.

(f) The reasons for expecting to find ore in the proposed testing area is that these areas were not explored in the past and due to the very bad ground in no. 9 level, and the continious caving and repair there, as once they were in the area of production only the best was taken that was at hand. Also the footwall of the Silver Bow dike has never been tested and explored, and no doubt should contain structural conditions favorable for ore accumulation. It should be noted also that many efforts have been made to reopen the no. 9 level since the first ore was removed, but it was to no avail. No assays are available. All zones are inaccessible.

(g) Refer to geological report, plats land 2, and Calif. State Mine survey map.

4. ACCESSIBILITY

(a) MRS CONRAD HERZ Phone 707-9652353
Property accessible by poor roads from Aetna Mine James Creek road.

(b) Shipping of mercury metal would be done by transporting it at cost of operator to one of the buying houses in San Francisco.

5. EXPLORATION WORK

(a) 40 drill holes should be drilled between 300-500 feet to reach the basalt, or the hanging wall area, and beyond to reach the footwall area. An average of about 400 feet per hole needed or a total of 20,000 feet of drilling. Hole size would be 3½ - 5 inches depending on drilling conditions and individual hole. Refer to plat 2. A track mounted down the hole drill using air should be employed. If encouraging results are obtained, a 5 by 12 foot shaft should be sunk (refer to plat 2) to 500 feet and a drift 5 by 7 feet run out from the bottom 200 feet in either direction to explore this zone. The known existing inaccessible mine workings in relation to the exploration program are show n. Refer to plat 2.

(b) Present access roads to the property must be repaired and improved. New access roads to the drill stations and proposed shaft collar must be made. One mile of access roads must be repaired. Two miles of dirt roads must be punched with the cat for drilling access and ½ mile of all weather access road must be built and rocked.

(c) Work should be resumed as soon as equipment for the work is acquired, which should be within 1 month.

30 days of dozer work to start immediatly for road work.

200 days of drilling at 100 feet per day and to start 1 week after dozer work has commenced.

150 days to sink proposed shaft to commence upon completion of 150 days of drilling or 50 days prior to the completion of the drilling providing encouraging results were obtained in the drilling program at that time. Rate of sinking is 3½ feet per day.

40 days to complete 400 foot drift to commence after completion of shaft. Rate of drifting is 10 feet per day.

Time of receiving OME approval to completion of exploration work is 363 days. Total working day, 333.

cont.

Only general recommendation for exploration can be made until the old workings are reopened. When this is done it will be advisable to carefully map the hanging-wall contact of the dike and the relative positions of the stopes, to obtain information useful in the search for ore shoots. The hanging-wall contact of the dike should be explored by drifts on the No. 9 level. The footwall of the dike has never been explored and may be ore-bearing in places; however, the footwall is structurally not as favorable as the hnaging wall, because it is probably less brecciated.

G.E. Eberhardt
" Geologic Consultant"

7. ESTIMATE OF COSTS

(a) 1- Drilling 20,000 feet @ $4/ft $80,000

2- Sinking 500 feet @ $240/ft $120,000

3- Drifting 400 feet @ $50/ft 20,000

4- Total $220,000

(Equipment will be acquired by corporation andbe probably sub-contracted out or done by corp.)

(b) Engineer for 8 months actual work during 363 day period of set up and program of exploration @$1,100 per mo. (also geologist) $8,800.

Junior geologist or engineer for 10 months work @$800 per mo. $8,000.

(C) Contract

(d) Contract

(e) N/A None.

(f) Office and assay office $2,200. Contract

Change house for workman $3,000. Contract

(g) 40 days of dozer work to be done at $200 per day
30 days of road work or $6,000
10 days for drill benches $2,000
Total dozer costs $8,000

No repairs, contract work
Labor to be handled by contractor or operator to be applied as part of the footage costs.

********* RESUME' COSTS

Drilling	20,000' @ $4/ft	$ 80,000.
Sinking	500'@ $240/ft	120,000.
Drifting	400'@ $50/ft	20,000.
Dozer work	40 days @ $200/day	8,000.
Buildings		5,200.
Engineering and geology		16,800.
	Total amount asked	$250,000

SUPPLEMENTRY GEOLOLGIC EXTRACT

Extract from State of California Division of Mines State Minerologists Report, Vol. 42 No. 3, July 1946, Walter W. Bradley. "Silver Bow workings", pp 258-259.

SILVER BOW WORKINGS. The Silver Bow workings of the Aetna mine consist of three main adits (No. 2, No. 7, and No. 9 tunnels) and an unknown number of levels, sub-levels, and stopes along the ore body. The ore body is intersected by the lowest tunnel (No. 9), 774 feet below the outcrop, and is reportedly explored by a winze about 100 feet below this level. Only a very small proportion of the workings were accessible at the time of the examination (see pl. 35), consequently the following description is based largely upon data from old maps and published reports, interpreted in the light of the few observations which could be made. The only ore mined from the Silver Bow workings in recent years was taken from the upper, near-surface, workings. Much of the 1942 production of the Aetna mine came from material on the Silver Bow dumps.

The Silver Bow ore body lies along the hanging wall of an olivine basalt dike, which strikes about N. 15° E. and has an average dip of about 45° east. The hanging wall contact of the dike rolls irregularly (see pl. 35). In most places a zone several inches to several yards wide of brecciated sandstone and shale(Franciscan) or black gouge, seperates the basalt from the relatively unbroaken sandstone. Along both the hanging wall and footwall contacts of the dike of basalt in most places is altered to a white plastic clay, which is locally several feet thick, Cinnabar occurs in the basalt and brecciated Franciscan rocks and also in smallamounts along contraction joints in the dike (see pl. 35)

The localization, thickness, and grade of the ore shoots along the Silver Bow dike were most probably controlled by anticlinal rolls and flattenings of the dip of the hanging wall contact. According to Bradley "Above the No. 7 the vein was not over 3 to 4 feet wide and with a steep dip. At that depth it flattened out and widened to about 20 feet between wall, extending to the No. 9."

The geologic section (pl.35), although highly interpretive, show this flattening of the hanging wall and the probable position of the best ore. As the data from which these sections were constructed are so incomplete, it would be pure speculation to point out other places where high-grade ore was mined, although it seems very possible that there were other but smaller, high-grade shoots which were likewise comtrolled by local rolls and flattenings of the hanging wall.

folder
in next
file

6740

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/25/70	E. Peterson	120
3/25/70	HKirkemo	120
3/25	Kulogowski	
3/25	D. Peterson	
3/25	Murphy	220

MAR 26 1970

Honorable Harrison A. Williams, Jr.
United States Senate
Washington, D. C. 20510

Dear Senator Williams:

This is in reply to your letter of March 18, 1970, on behalf of Mr. Armand C. Massie, president of the Pope Valley Mines Corporation, Newark, New Jersey, whose application for financial assistance in minerals exploration was denied by our Office of Minerals Exploration (OME). You request that Mr. Massie be given an opportunity to restate his case as he contends that his original proposal was not given a complete and adequate hearing prior to the denial.

Mr. Massie is welcome to reactivate his application by submitting any new information acquired since the OME Field Officer examined the property on March 14, 1969. Geological, sample, and assay data, and maps of workings rehabilitated or completed since then would be appreciated. Factual information submitted with the original application, dated June 20, 1968, need not be resubmitted, but exhibits now out of date, such as letters to banks and their replies, documents relating to rights to land, exploration plans, and cost estimates, would have to be updated where necessary. We will review this information together with the material already on hand and make another field examination of the property if warranted.

Much of Mr. Massie's original proposal was ineligible for OME assistance. A revised program also was unacceptable. An alternate program of exploration was suggested by OME in March 1969, but the Applicant did not respond for several months and then provided little of the supporting data necessary to complete an amended application.

At the present time, funds for contracts are fully committed. New or amended applications are processed as received and those offering the best opportunities for making significant discoveries will be considered for contracts to the extent that funds become available.

Sincerely yours,

W. A. Kadlinski

Acting Director

cc: General Files
Director's Chron
Mineral Resources
OME ReadingFile
OME docket file (OME-6740)
OME Region II w/copy incoming letter
Mr. Kirkemo

HKirkemo/gla 3-25-70

HARRISON A. WILLIAMS, JR., N[illegible] CHAIRMAN
ALAN BIBLE, NEV.
FRANK CHURCH, IDAHO
JENNINGS RANDOLPH, W. VA.
EDMUND S. MUSKIE, MAINE
FRANK E. MOSS, UTAH
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VANCE HARTKE, IND.
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HIRAM L. FONG, HAWAII
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PAUL J. FANNIN, ARIZ.
EDWARD J. GURNEY, FLA.
WILLIAM B. SAXBE, OHIO
RALPH T. SMITH, ILL.

WILLIAM E. ORIOL, STAFF DIRECTOR
JOHN GUY MILLER, MINORITY STAFF DIRECTOR

United States Senate

SPECIAL COMMITTEE ON AGING
(PURSUANT TO S. RES. 76, 91ST CONGRESS)
WASHINGTON, D.C. 20510

March 18, 1970

MAR 23
120

Mr. W. T. Pecora, Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Dear Mr. Pecora:

Mr. Armand C. Massie, President of the Pope Valley Mines Corporation, Newark, New Jersey, submitted an application for financial assistance in minerals exploration with your office in July, 1968 (OME-6740 (Mercury)).

A preliminary decision was made at that time that Government participation in the proposed $325,000.00 project was not justified. However, Mr. Massie has convinced me that his proposal was not given a complete and adequate hearing prior to the turndown, and I respectfully request that your office provide him an opportunity to restate his case.

Mr. Massie's arguments are very persuasive and cogent, and it is my earnest hope that he will be given the chance to further test the properties referred to in a manner consistent with the best interests of the Government, our national economy, and his corporation.

Any help you can give him along this line will be greatly appreciated.

Kindest personal regards,

Sincerely,

Harrison A. Williams

Harrison A. Williams, Jr.

HAW:mrt

183387

MARKET 3-2335

POPE VALLEY MINES CORPORATION
SUBSIDIARY 100% AETNA QUICKSILVER MINES CONSOLIDATED
7 PARIS STREET, NEWARK, NEW JERSEY 07105

OFFICE OF
THE PRESIDENT

June 5, 1969

OME-6740

H.K. Stager
Field Officer
OME Region 11
Menlo Park, California

Dear Sir:

With respect to your letter of March 27, 1969. Having been at the mine in Pope Valley for the past 30 days, I commuiucated with Mr. Ingle, and explained to him that I would go along with all your suggestions, All work to be performed will be conducted under Mr. Ingle's supervision, Enclosed herewith the TWO Letters from the local Institutions, upon my return to the mine I shall contact you by phone.

Many thanks for your cooperation in this matter.

Very truly yours,

Pope Valley Mines

Armand C. Massie

Armand C. Massie,
President

OFFICIAL
COPY
O. M. E.
RECEIVED
JUN 23 1969

INITIALS	CODE
	~~1120~~
~~ge~~	~~1120~~
~~DHK~~	~~1120~~
ED	120
	220

denied 5/22/69

RECEIVED
JUN 17 1969
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

ESTABLISHED 1812

First National State Bank

OF NEW JERSEY

Port Newark Office / 176 South Street / Newark, New Jersey 07114

May 28, 1969

Armand C. Massie, President
Pope Valley Mines Corporation
7 Paris Street
Newark, New Jersey 07105

Dear Mr. Massie:

This is to inform you that we are unable to grant the loan requested by Pope Valley Mines Corporation in your letter of May 23, 1969.

We thank you for the opportunity to review the loan request and if we may be of any further service, please do not hesitate to call.

Very truly yours,

Robert J. Chap

Robert J. Chap
Assistant Cashier

RJC:ss

Eaton & Company, Inc.

TELETYPE
NY 1-368

INVESTMENT SECURITIES
32 BROADWAY
NEW YORK 4, N. Y.

TELEPHONE
WHITEHALL 3-1492

June 5, 1969

A. C. Massie
Pope Valley Mines
7 - 11 Paris St.
Newark, N. J.

Dear Mr. Massie,

With respect to your letter of May 23, 1969 requesting a mortgage loan on your Pope Valley Mines properties.

We can not consider your request at this time.

Thanking you for the inquiry we remain,

Very truly yours,

R. J. Hespe

R. J. Hespe
Eaton & Co., Inc.

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/20/69	Peterson	120
	Emerick	120
5/22	Kilgoore	
5/22	[illegible]	
		220

MAY 22 1969

Mr. Armand C. Massier
Pope Valley Mines Corp.
7 Paris Street
Newark, New Jersey 07105

Re: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

Dear Mr. Massie:

A 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. Accordingly, 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,

William L. Emerick

W. L. Emerick
For: Harold Kirkemo, Chief
Office of Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region II
Mr. Peterson
120

ECPeterson/bsl 5/20/69

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
5/20/69	Emerick	120
		120
		220

May 20, 1969

Memorandum

To: The File

From: Edward C. Peterson
Office of Minerals Exploration

Subject: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

Justification for Denial of Application

The Applicant proposes (amended proposal) to explore for mercury on the subject property by underground rehabilitation, drifting, crosscutting, long-hole and diamond drilling, and diamond drilling from surface sites at a total estimated cost of $78,390.00.

The results of a field examination and careful review of the application indicate that the economic potential of the property is too small to justify Government participation in the proposed work. In addition, most of the work is considered rehabilitation and is not eligible for OME assistance.

However, the Field Officer concluded that worthwhile exploration targets do exist on the property, and the notified the Applicant by letter on March 27 that the OME would favorably consider a modest program of exploration drilling from surface sites. A letter dated April 21 from the Applicant's consultant indicated that such a project was not looked upon with favor. A subsequent letter (dated April 25) to the Applicant from the Field Officer was not answered.

As the Applicant has shown no interest in our proposal and the property does not justify the work he proposes, it is recommended that the application for assistance be denied.

Edward C Peterson
Edward C. Peterson

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Mr. Peterson/bsl 5/20/69

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

May 14, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
MAY 16 1969

INITIALS	CODE
	130

Memorandum

To: Chief, Office of Minerals Exploration
Washington, D. C.

From: Field Officer
Region II

Subject: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine (Aetna Mine)
Napa County, California

Enclosed is an Application Report on the subject property recommending that the application be denied.

The Applicant does not appear to be interested in a modified exploration drilling project from surface sites, and the project proposed in the application cannot be justified under present OME regulations. The Applicant has not replied to my letter of inquiry, of April 25, 1969, requesting that we be advised as to their plans regarding the application.

H. K. Stager

Enclosures

UNITED STATES

DEPARTMENT OF THE INTERIOR

WALTER J. HICKEL, SECRETARY

GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION

REGION II

On-Site Exam Report

APPLICATION REPORT

OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine (Aetna Mine)
Napa County, California

By

H. K. Stager
Field Officer
OME, Region II

May 14, 1969

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ILLUSTRATIONS

Figure 1. Index map of Napa County, California.

INTRODUCTION

The Pope Valley Mines Corporation, 7 Paris Street, Newark, New Jersey 07105, applied to the Office of Minerals Exploration for Government assistance in an exploration project, Docket OME-6740, to explore for mercury at the Aetna Mine, Eastern Mayacmas Mining District, Napa County, California. The Applicant infers the presence of minable mercury-bearing ore shoots along fault zones in sandstones and shales of the Franciscan Formation of Jurassic or Cretaceous age and wishes to explore the deposit by rehabilitation of old workings, crosscutting, drifting, and diamond drilling from underground and surface sites.

A review and field examination was requested by the Office of Minerals Exploration and was made by H. K. Stager, Field Officer, on March 14, 1969, accompanied by Mr. Armand C. Massie, president, and Mr. Virgil Landsdown, director, of Pope Valley Mines Corp., and Mr. Hugh C. Ingle, Jr., consulting mining engineer for the Applicant. The Applicant's maps, cross sections, and reports were examined and compared with surface and underground exposures on the property.

The history and geology of the Aetna Mine is described in the California Division of Mines Report of the State Mineralogist, Volume 42, No. 3, p. 254-259, Quicksilver Deposits of Eastern Mayacmas District, Lake and Napa Counties, California, by Robert G. Yates and Lowell S. Hilpert, July 1946.

SUMMARY

The Eastern Mayacmas District has produced about 500,000 flasks of mercury since 1864 and is the third most productive mercury district in

the United States. Results of the field examination indicate that worthwhile exploration targets exist on the property and a modified drilling project from surface sites was suggested by the Field Officer. The Applicant, however, is not interested in the Field Officer's proposal inasmuch as it does not provide for extensive rehabilitation of old underground workings.

RECOMMENDATIONS

It is recommended that the application for financial assistance in an exploration project at the Aetna Mine be denied. The Applicant's proposed program is too costly and is principally rehabilitation and developmental in character rather than exploration. The Applicant is apparently not interested in a smaller drilling project of the type that could be justified under present OME regulations.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Aetna Mine is in sec. 2, T. 9 N., R. 6 W., MDBM, Eastern Mayacmas Mining District, Napa County, California (Fig. 1), at the northwest end of Pope Valley, at an altitude of about 1,000 feet.

To reach the property, that is about 14 miles north of St. Helena (the closest town), drive north on a paved county road about 9 miles to Pope Valley, turn left and drive about 4 miles to the Aetna Springs Resort. The Aetna Mine workings are about one-half mile northwest of the resort and accessible by several access roads. The roads are passable to ordinary passenger vehicles except during heavy rain or snow storms when a 4-wheel drive vehicle is necessary for the mine roads. The drive from St. Helena usually requires about 45 minutes.

Mail and telephone services are available in Aetna Springs and Pope Valley; trucking and railroad services in St. Helena; and labor, mining equipment, materials, timber, and supplies are available from towns within a radius of 50 miles from the property. Ample water is available from springs and streams on the property. Assaying is done locally at nearby operating mines at a cost of about $3.50 to $5.00 per sample for mercury.

PROPERTY

History and Production

Mercury-bearing ore was first discovered in the district during the 1850's but the first recorded production from the Aetna Mine was not until 1864. The major production for the district was from 1887 to 1900 with the highest production during 1893, 1894, and 1895. Production since 1910 has been erratic. The district has yielded about 500,000 flasks of mercury since 1864 (about one-sixth of the total production of the United States) and is the third most productive mercury district in the United States. The Aetna Mine has yielded about 70,000 flasks. Production from the property during 1966 totaled about 77 flasks and there has been no production since that time.

Ownership

The land, including all rights thereto, contained in the application consists of five patented quicksilver mining claims in secs. 2 and 3, T. 9 N., R. 6 W., MDB&M, Eastern Mayacmas (Pope Valley) Mining District, Napa County, California.

The patented quicksilver mining claims are as follows:

Name	Patent No.
Silver Bow Quicksilver Mine	2433
Phoenix Quicksilver Mine	191
Red Hill Quicksilver Mine	502
Pope Quicksilver Mine	2440
Washington Quicksilver Mine	166

The Applicant is the owner of the claims.

Financial Eligibility

The Applicant furnished copies of letters to two banks requesting loans for the proposed work and also copies of letters denying the loans. The Applicant proposed to furnish its share of the exploration costs in cash.

Development

The Aetna Mine is the third largest mine in the Mayacmas district and is developed by several miles of underground workings, several small open pits, many adits, and at least one shaft. These workings, many of which are more than one hundred years old, are almost all caved, flooded, and inaccessible. Except for a few hundreds of feet of adit at the West Pope workings, there were no underground workings accessible at the time of the field examination. Most of the 1966 production came from the West Pope workings.

GEOLOGY

Geologic Setting

The Aetna Mine is in an area of moderately steep topography and the surface is largely covered by slope wash and dense vegetation. Outcrops

are sparse and access to much of the area is difficult. Rocks in the mine area consist of sandstone and shale of the Franciscan and Knoxville Formations of Jurassic(?) and Cretaceous age, serpentine, silica-carbonate rock, volcanic tuffs, and intrusive olivine basalt of probable Tertiary age.

The Franciscan rocks are predominantly sandstone and are separated from the shales of the Knoxville Formation by serpentine. Much of the serpentine in the mine area is altered to silica-carbonate rock that locally contains abundant cinnabar. A large dike of olivine basalt, known as the Silver Bow dike, trends N. 15° E., dips 45° east, and intrudes Franciscan sandstones at the Silver Bow workings.

Faults are abundant but all appear to be of limited strike length and small displacement. Structurally the mine area is on the south flank of the nose of the Mayacmas anticline.

Ore Deposits

The mercury-bearing ore bodies in the district are of four types. These are: (1) ore bodies in silica-carbonate rock, (2) ore bodies along faults in sandstone, (3) ore bodies in or along the contact of basalt dikes, and (4) ore bodies in brecciated chert. All four types occur in the Aetna Mine.

Ore bodies in silica-carbonate rock are the most abundant and include the richest and largest ore shoots. The ore shoots are either tabular or pipe-like. Cinnabar is the principal ore mineral although some metacinnabar and native mercury are present. The ore bodies at the Phoenix workings are of this type and occur in vein-like zones that strike N. 25° W. and N. 50° W., dip vertical or steeply southwest.

At the Star workings the ore bodies occur along faults, in sandstone, that strike northeast and dip about 60° northwest. The Star ore bodies have a vertical range of at least 250 feet and individual ore shoots have been mined for horizontal lengths of from 15 to 80 feet.

At the Pope workings, in the vicinity of the Applicant's proposed exploration, the ore shoots occur in sandstone and chert along a brecciated fault zone that trends about N. 60° W. The principal ore shoot trends about N. 30° W. at an angle to the general trend of shearing.

The intersection of the Star fault and the Pope fault, about 300 feet northwest of the Pope adit, is considered to be a favorable exploration target.

Sampling

There were no samples taken during the examination. Except for a few hundred feet of workings at the Pope adit, none of the very extensive underground workings on the property were accessible for study or sampling. Traces of cinnabar mineralization are visible in surface exposures in the vicinity of the intersection of the Star and Pope structures, in the favorable exploration target area, but these exposures were estimated to contain less than 2 pounds of mercury per ton and were not sampled. The Applicant stated that ore mined from a winze and sub-level drift at the Pope workings yielded about one flask of mercury per foot of workings or about 20 pounds of mercury per ton.

Ore Reserves

The Applicant states that there are no known ore reserves. Old stope fill, in the now inaccessible stopes, is reported to contain about 7 pounds

of mercury per ton and it is estimated that 50,000 tons of this material might be made available if the old workings were rehabilitated.

EXPLORATION

Applicant's Proposal

The Applicant first proposed to explore the deposit by a project consisting of 20,000 feet of rotary drilling from surface sites, 500 feet of shaft sinking, and 400 feet of drifting. This project was estimated to cost about $325,000 and require about 10 months to complete. The proposal was not acceptable to the OME and the Applicant then submitted a revised proposal consisting of underground rehabilitation, drifting, crosscutting, underground and surface diamond and long-hole drilling at an estimated total cost of $78,390. Of this revised program cost, rehabilitation of old workings and preparation of underground drill sites would total about $55,000 or about 70 percent of the project and cannot be justified under present OME regulations.

Examiner's Proposal

After the field examination the examiner wrote to the Applicant explaining the unacceptability of its proposed projects and suggesting a modified rotary drilling program from surface sites in the two most favorable target areas. This proposal consisted of about 11 or 12 holes totaling about 2,000 to 2,500 feet, with access roads and site preparation, to explore the down-dip projection to the southeast of the ore shoot mined at the Pope workings and in the vicinity of the intersection of the Pope and Star faults about 300 feet northwest of the Pope adit. Such a program,

including geologic supervision and assaying, would probably cost about $25,000 and require about 3 to 4 months to complete. The Applicant was asked (by letter dated March 27, 1969) to furnish drilling and bulldozing bids if it would be agreeable to such a program. A letter from the Applicant's consulting mining engineer (dated April 21, 1969) indicated that such a small exploration project was not looked upon with favor. A second letter (dated April 25, 1969) to the president of Pope Valley Mines Corp. was not answered.

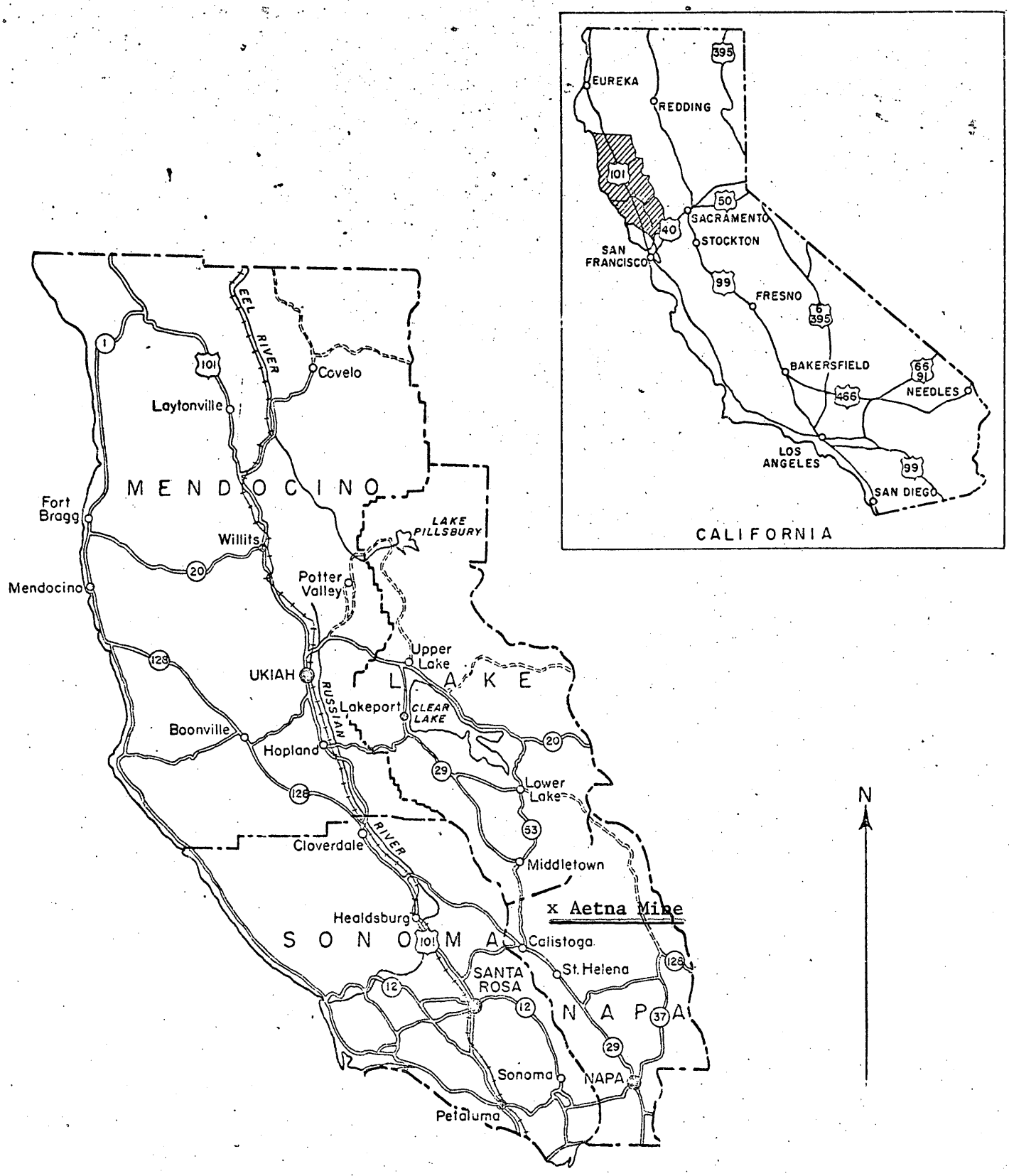

Figure 1. INDEX MAP OF LAKE, MENDOCINO, NAPA, AND SONOMA COUNTIES, CALIFORNIA

0 20 40 60 Miles

Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

April 25, 1969

OFFICIAL COPY
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120

Mr. Armand C. Massie
Pope Valley Mines Corp.
7 Paris Street
Newark, New Jersey 07105

Re: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

Dear Mr. Massie:

On March 27, 1969, I wrote a letter to Mr. Hugh C. Ingle, Jr., Middletown, California, with a copy to you, outlining a small drilling project at the subject property. If the project was agreeable to you he was to furnish me with detailed drilling and bulldozing bids for the work, new bank correspondence, and a map of the property involved.

A letter from Mr. Ingle, dated April 21, 1969, states that he has not been able to contact you or Mr. Lansdowne and that he assumes that you are not in favor of such a project. Therefore, will you please advise us of your plans regarding the application, and if you have decided not to pursue it further, please so inform us. If you have any questions that I might answer to clarify any part of the proposal will you please call me, so that we can discuss them.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

cc: OME, Wash., D.C.
Dir. RF
ACG RF
MP RF
Docket

HKStager:mkh

HUGH C. INGLE, JR.
MINING ENGINEER
P. O. BOX 553
MIDDLETOWN, CALIFORNIA 95461
TELEPHONE 987-3180
AREA CODE 707

OFFICIAL COPY
O. M. E.
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APR 28 1969
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April 21, 1969

Mr. H. K. Stager, Field Officer
U. S. Geological Survey
Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

Re: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, Calif.

Dear Mr. Stager:

I have not been ignoring your letter of March 27, 1969. Repeated attempts to contact Mr. Massie and Mr. Lansdowne have been unsuccessful. Several days ago I made a trip to the mine, but found Mr. Massie had returned to New Jersey.

I learned from Mr. Lansdowne's brother that Mr. Massie had not looked with favor upon a small exploration project. I can only assume that, since I have not been contacted, this is probably the case.

Many thanks for your courtesy. If I hear any further, I will contact you.

Yours very truly,

Hugh C. Ingle, Jr.

Hugh C. Ingle, Jr.

RECEIVED
APR 24 1969
OFFICE OF MINERALS EXPLORATION
U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIF.

Office of Minerals Exploration
345 Middlefield Road
Menlo Park, California 94025

March 27, 1969

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Mr. Hugh C. Ingle, Jr.
P.O. Box 553
Middletown, California 95461

Re: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

Dear Mr. Ingle:

Thank you for making the special trip to Aetna Springs on March 14 to show me around and give me your ideas on possible exploration targets at the Pope and Star workings of the Aetna Mine. After you departed Mr. Landsdown and I continued with the examination for several hours and walked over the surface area along the strike of the Pope and Star structures.

It is unfortunate that the Pope workings are caved and completely inaccessible. The OME would be reluctant to expend a large amount of money for the purpose of reopening over a thousand feet of old workings to gain access to an area where only a limited amount of new exploration can be planned. The cost of reopening the No. 9 tunnel (estimated at $26,250) and preparing drilling sites (at an estimated cost of $9,250) in order to drill 800 feet of diamond drill holes (at an estimated cost of $5,600) and 500 feet of long holes (at $750) cannot be justified under the present OME regulations. If at some future time the Applicant, at its own expense, reopens these workings for study, sampling, or mining purposes, it might be possible to provide OME assistance in a limited amount of underground drilling exploration.

A somewhat similar situation pertains at the Pope workings although these workings are accessible in part. The proposed underground rehabilitation, drifting, and long hole drilling (at an estimated cost of $18,600) would not be justified by the present accessible exposures. This work could be more readily justified if exploration drilling from surface sites discovered significant mineralization in the area of the projected intersection of the Pope and Star structures. For this reason it might be advisable to postpone this work until completion of the surface drilling. I agree with you that

there are probable favorable targets down-dip and southeast of the stoped area in the Pope workings and in the vicinity of the intersection of the Pope and Star faults. A small project consisting of about 11 or 12 holes totaling about 2,000 to 2,500 feet, with access roads and site preparation, appears justified in these two areas. Such a project, including geologic supervision and assaying, would probably cost about $25,000 and would require 3 to 4 months to complete. If you and the Applicant would be agreeable to such a project, please let me know and also furnish me with new bank correspondence reflecting a loan request in this approximate amount and bids from at least two, and preferably three, drilling and bulldozing contractors to support the cost estimates. A sketch map showing the property involved and the approximate locations of the drill holes should also be included.

Please note that although I can recommend such a project, the decision to grant a contract is made by the OME in Washington, D. C., and nothing in this letter should be construed as a commitment by the Government to grant an exploration contract.

Sincerely yours,

H. K. Stager
Field Officer
OME, Region II

cc: Mr. Armand C. Massie
Pope Valley Mines Corp.
7 Paris Street
Newark, New Jersey 07105

OME, Wash., D.C.
Dir. RF
ACG RF
MP RF
Docket

HKStager:mkh

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
12/9/68	Peterson	120
12/9/68	Kirkemo	120
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12/9	Cac	220
		120M

AIRMAIL

DEC 9 1968

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

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

The revised project proposal is lacking much of the information needed to evaluate the probability of a significant ore discovery. However, Mr. Massie during his visit to our office stated that this is the best he can do. Perhaps the information can be obtained during a field examination.

If an examination is made it should be scheduled for sometime after January 15 as Massie does not expect to be on the property until then. He can be reached after that date either by calling 707-965-2353, or writing to him c/o Aetna Quicksilver Mines, Pope Valley, California.

If a contract is recommended, the Applicant should be requested to furnish new bank correspondence reflecting a loan request in the estimated amount of Government participation. Also required are the necessary bids to support the cost estimates.

For your records, we are enclosing the duplicate copy of material furnished by Massie.

FRANK E. JOHNSON (gfa)

Frank E. Johnson

Enclosure

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Mr. Peterson
ECPeterson/bsl 12/9/68

MME Form 7
(2/63)

OFFICIAL FILE COPY

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12/9/68	Kerbaugh	120
		110
		220
		120M

DEC 9 1968

Pope Valley Mines Corporation
7 Paris Street
Newark, New Jersey 07105

Re: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

Gentlemen:

The revised project proposal that Mr. Massie delivered to our office on December 6 has been reviewed and referred for further consideration to Mr. Harold K. Stager, Field Officer, Region II, U. S. Geological Survey, Building 2, 345 Middlefield Road, Menlo Park, California 94025.

Mr. Stager will notify you if additional information concerning the application is needed, and possibly to make arrangements for a field examination of the property.

Sincerely yours,

FRANK E. JOHNSON (gla)

Frank E. Johnson
Chief, Office of
Minerals Exploration

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

ECPeterson/bsl 12/9/68

HUGH C. INGLE, JR.
MINING ENGINEER
P. O. BOX 553
MIDDLETOWN, CALIFORNIA 95461
TELEPHONE 987-3180
AREA CODE 707

2 December 1968

Frank Johnson
Chief, Office of Minerals
U.S. Dept. of the Interior
Office of Minerals Exploration
Washington, D.C. 20242

Dear Mr. Johnson:

The following information and recommendations are presented as a method of exploration for new orebodies and extensions of the old ones in the West Pope (New Pope) area. This does not mean that I would strongly recommend exploration in this area as compared to other possibilities on the Aetna Mine property, because I was not engaged to determine an overall program for the property. The time available even for studying the Pope alone was limited.

The main orebody at the West Pope appears to have been formed in a brecciated chert which, near the surface, lay some 25 feet to the northeast of a shear zone along the contact of sandstone-shale and chert. The shear zone strikes N31°W near the drift portal and swings around to N23°W at about 90 feet from the present portal. The dip near the portal (in the ore zone) varies from 54°-65° northeast and steepens to 79° as the strike swings further to the north. Some ore was found in the shear zone itself, but the main chert ore zone dipped toward the shear, the footwall where still seen dipping 70° southwest while the hanging wall appears to dip 50° southwest. An old winze was apparently sunk on this footwall. There appears to be further complex faulting which has affected the concentration of cinnabar mineralization.

The recently sunk winze reportedly reached approximately 40 feet below the level. Here a short drift was run to the southeast. The entire winze and drift were reportedly in ore. From the description given, this drift followed the shear zone and was probably in the area of the intersection with the southwesterly dipping brecciated chert zone.

A poorly defined shear zone striking approximately N60°W was followed from the mineralized area to a point some 100 feet to to the northwest. Little mineralization can be seen, but this shear may have added to the general brecciation of the ore zone.

The main drift along the sandstone-shale and chert contact was driven during 1943-1944 and reportedly extends 200 feet or more to the northwest. It is now caved at about 145 feet from the present portal. A narrow open cut has been dug through the portal area to a depth of about 20 feet below the level. The level can only be entered indirectly at present.

A preliminary study of Plate 35 accompanying State Mineralogist's Report XL11, July 1946 indicates two apparent major zones of mineralization at the Aetna Mine. One of these is the Silver Bow workings. The other is a northeast trending zone, which contains the Phoenix, Star, and West Pope workings. In this second zone, most orebodies seem to lie on northwest trending structures, but to be limited to a northeast trending zone across the structures. The Star vein is an exception in that it is a northeast striking structure with good orebodies.

If this appearance of a northeast trending zone is significant, then perhaps the West Pope is an undeveloped area of considerable importance. If the Star vein persists to an intersection with the West Pope shear, an orebody might be developed here especially. An examination of the surface at the eyeballed projected intersection of these two structures revealed some old shallow cuts on a sandstone-shale and chert contact with some cinnabar mineralization in the chert.

The relationship of the East Pope to the West Pope could not be readily determined, but the East Pope also appears to be on a sandstone-shale and chert contact. Quite possibly it is a parallel structure. If so the northeast trending zone previously mentioned has not yet been entered by the East Pope. It also seems possible that the canyon along whose north wall both Pope workings are located may represent a fault of some significance.

In the light of the foregoing observations, I would recommend exploring the West Pope in the following manner.

1, Prepare drill sites to the east of the West Pope stoped area and diamond drill three inclined holes to intersect the N30°W structure some 80 feet below the adit level. If these found ore, drill two additional holes to intersect the structure 150 feet below the adit level.

2, Make a new portal and reopen the drift along the N30°W structure. Sideswipe for long hole stations at 25 foot intervals and drill 40 foot holes in the right rib. Since at this level, mineralization was stronger in the chert zone some 25 feet from the structure itself, this zone should be probed.

3, Attempt to trace on the surface by bulldozer and backhoe the N30°W structure and the Star Vein. If successful, and the intersection is reasonably well determined, diamond drill six holes in this area to a depth of 100 feet and/or extend the West Pope drift to this area.

4, Attempt to determine and trace the East Pope structure by bulldozer and backhoe and learn its significance.

It would also seem well to do some work in the Star area because these workings could be extended along the Star Vein to reach and explore the West Pope structure at greater depth if the above work reveals any significant mineralization. Downward extensions of some of the Star orebodies could also be explored. There is a winze of unknown depth below the No. 9 level, but to what extent it explored the area is unknown. Also, a drift reportedly extends northeast along the Star Vein for 500 feet beyond the last stope shown on the map. This should put it within 300-400 feet of the intersection with the West Pope, if this intersection exists. I would recommend the following exploration in the Star area.

1, Reopen the No. 9 Tunnel for approximately 1050 feet to a point 100 feet beyond its junction with the Star Vein.

2, Drive a new crosscut 75 feet into the right rib and extablish a diamond drill station. Fan 3 inclined holes to attempt to pick up an extension of the orebody at the northeast end of the Star drift. Attempt to cut the vein at 125 feet below the level.

3, Drive a new crosscut 50 feet into the left rib and establish a diamond drill station. Fan 3 inclined holes and attempt to pick up an extension of the orebody on the Star Vein just southwest of the intersection with the No. 9 adit. Attempt to cut the vein at 125 feet below the level.

4, Examine the basalt dike shown approximately 600 feet in from the No. 9 portal. If it looks favorable, long hole it extensively from the station available at the tunnel fork just beyond the dike.

Cost estimates for the above projects follow and are based on past experience without time to attempt to adapt them specifically to the property.

Pope 1,	Prepare drill site	$ 400.00
	Diamond drill 1500 ft. @ $7	10,500.00
Pope 2,	Make new portal with dozer	300.00
	Clean out 100 feet of drift @$20.00	2000.00
	Equip. 100 feet of drift @$10.00	1000.00
	Long hole 200 feet @$1.50	300.00
Pope 3,	Bulldozing 7 days @ $200.00	1400.00
	Backhoeing 7 days @ $120.00	840.00
	Diamond drilling 600 ft. @$7.00	4200.00
	Drifting 300 feet @ $50.00	15,000.00
Pope 4,	Bulldozing 3 days @ $200.00	600.00
	Pope Total	$36,540.00

Star 1,	Reopen 1050 feet of tunnel @ $25.00	$26,250.00
Star 2,	Crosscut 75 feet @ $50.00	3,750.00
	Cut drill station	1,500.00
	Diamond drill 400 feet @ $7.00	2,800.00
Star 3,	Crosscut 50 feet @ $50.00	2,500.00
	Cut drill station	1,500.00
	Diamond drill 400 feet @ $7.00	2,800.00
Star 4,	Long hole 500 feet @ $1,50	750.00
	Star Total	$41,850.00

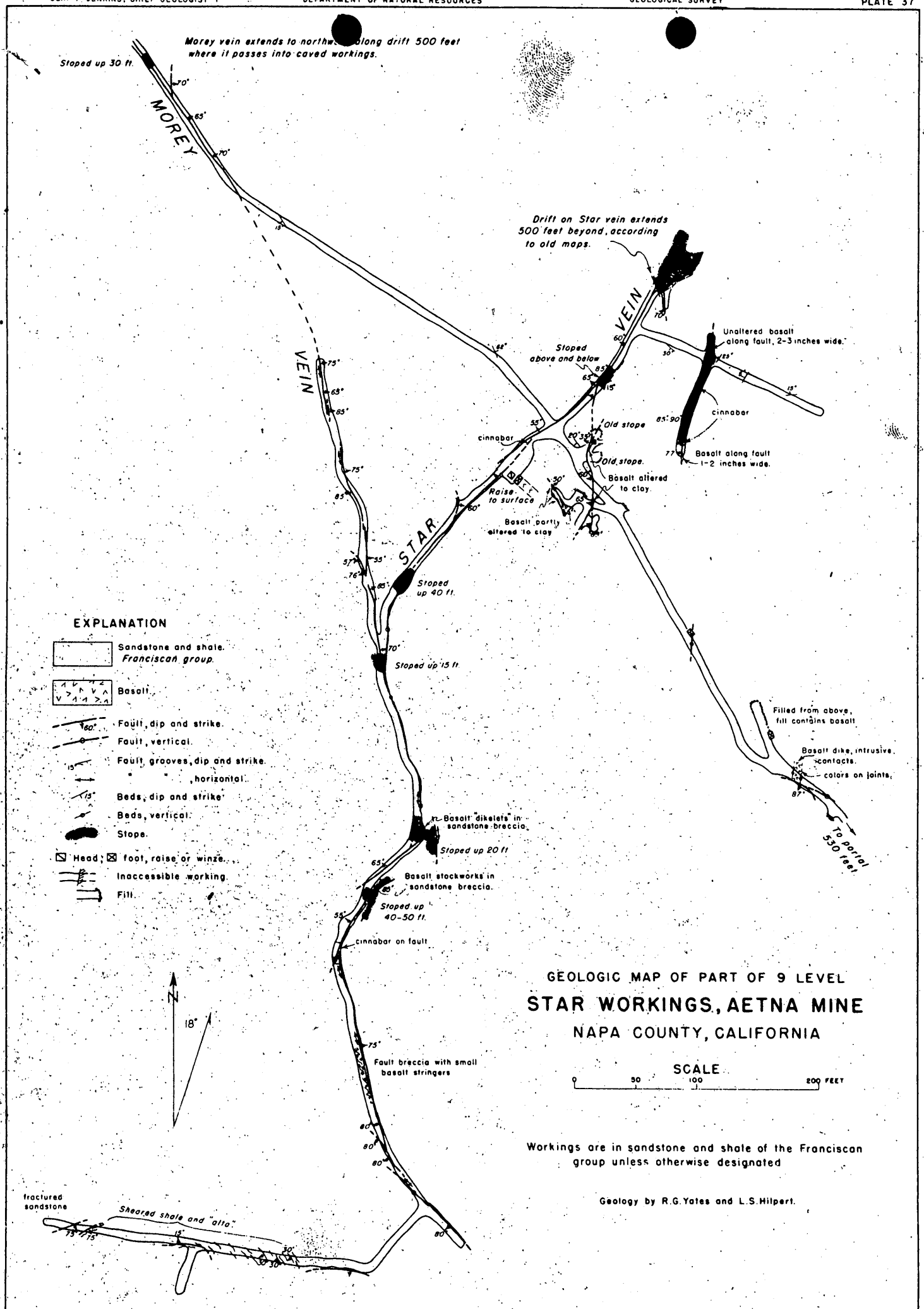
Engineering fees would be covered in the original application.

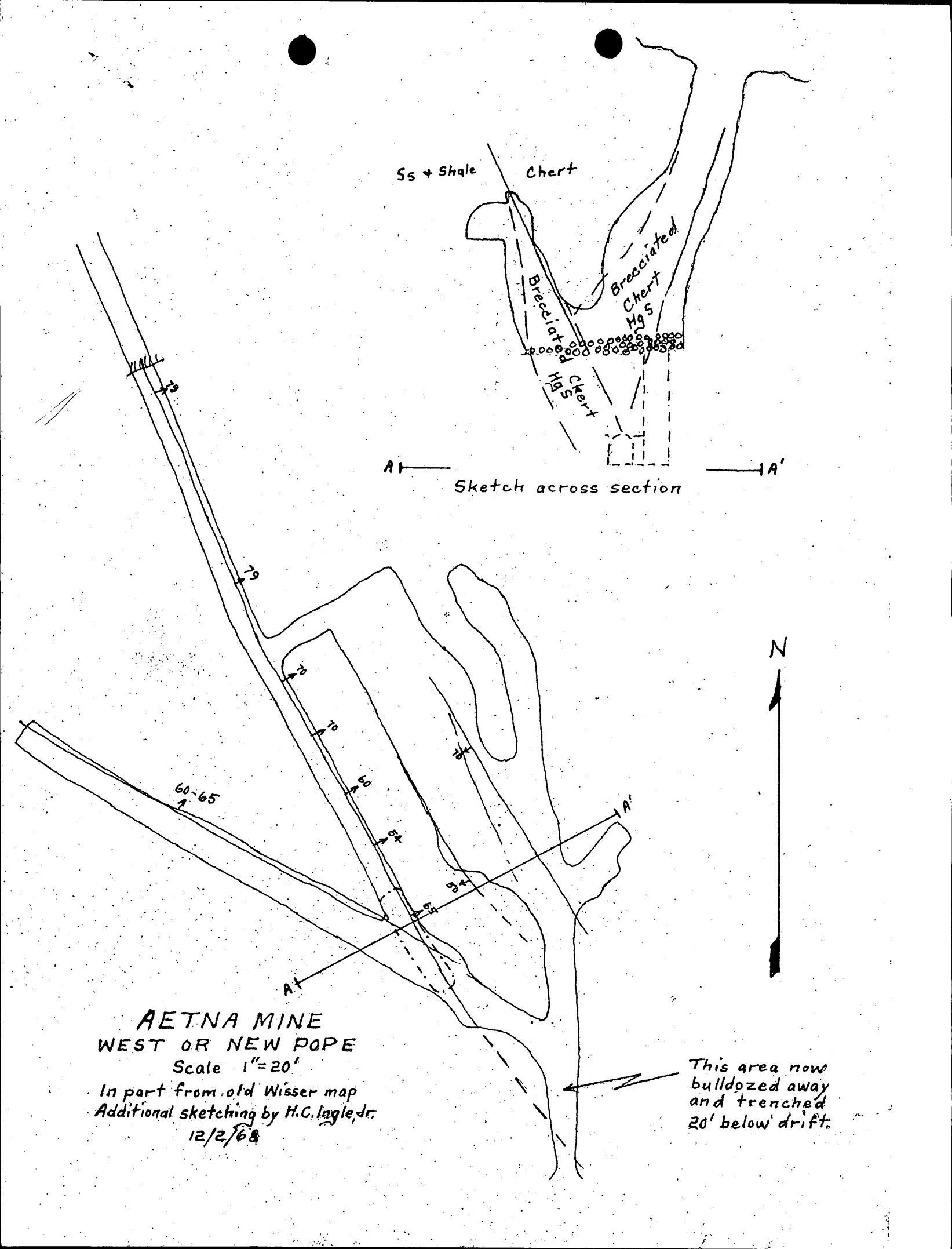
If there is any additional information needed, please let me know. I regret there was not more time to study the entire property. There seem to be several other good possibilities.

Yours very truly,

Hugh C. Ingle, Jr.

Hugh C. Ingle, Jr.


Morey vein extends to northwest along drift 500 feet where it passes into caved workings.
Stoped up 30 ft.
MOREY
VEIN
Drift on Star vein extends 500 feet beyond, according to old maps.
STAR
VEIN
Unaltered basalt along fault, 2-3 inches wide.
Stoped above and below
cinnabar
Old stope
Old stope.
Basalt along fault 1-2 inches wide.
Basalt altered to clay
Raise to surface
Basalt partly altered to clay
Stoped up 40 ft.
Stoped up 15 ft.
Filled from above, fill contains basalt
Basalt dike, intrusive contacts.
colors on joints.
To portal 530 feet
Basalt "dikelets" in sandstone breccia.
Stoped up 20 ft
Basalt stockworks in sandstone breccia.
Stoped up 40-50 ft.
cinnabar on fault
Fault breccia with small basalt stringers
fractured sandstone
Sheared shale and "alta"
N
18°
EXPLANATION
Sandstone and shale. Franciscan group.
Basalt.
Fault, dip and strike.
Fault, vertical.
Fault grooves, dip and strike.
" " , horizontal.
Beds, dip and strike.
Beds, vertical.
Stope.
Head; foot, raise or winze.
Inaccessible working.
Fill.
GEOLOGIC MAP OF PART OF 9 LEVEL
STAR WORKINGS, AETNA MINE
NAPA COUNTY, CALIFORNIA
SCALE
0 50 100 200 FEET
Workings are in sandstone and shale of the Franciscan group unless otherwise designated
Geology by R.G. Yates and L.S. Hilpert.


Ss + Shale
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79
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70
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54
54
65
A
A'
AETNA MINE
WEST OR NEW POPE
Scale 1" = 20'
In part from old Wisser map
Additional sketching by H.C. Ingle, Jr.
12/2/68
This area now bulldozed away and trenched 20' below drift.

orm 7

OFFICIAL FILE COPY

Date	Surname	Code
11/8/68	Peterson	120
"	Kishamo	120
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11/8	cal	220
		120M

NOV 8 1968

Pope Valley Mines Corporation
7 Paris Street
Newark, New Jersey 07105

Re: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

Gentlemen:

During his visit to our office on September 17 Mr. Massie indicated that a revised proposal to explore the Pope claim would be submitted shortly. To date, we have not received this material.

For administrative and fiscal reasons this office cannot indefinitely defer action on an application. Therefore, will you please advise us of your plans regarding the application, and if you have decided not to pursue it further, please so inform us.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region II
Mr. Peterson

ECPeterson/bsl 11/8/68

OME

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/24/68	[illegible]	120
"	[illegible]	120
9/24	[illegible]	110
9/25	Kilsgaard	
9/26	[illegible]	
		220
		120M

SEP 26 1968

Hon. James J. Howard
House of Representatives
Washington, D. C. 20515

Dear Mr. Howard:

This is in response to your letter of September 17 concerning the application for exploration assistance submitted by Mr. Armand C. Massie, President, Pope Valley Mines Corporation, Newark, New Jersey.

The application, received by the Survey's Office of Minerals Exploration on July 9, 1968, was assigned Docket No. OME-6740, and promptly reviewed by its technical staff. This review indicated that the proposal to perform work in areas encompassing old underground mine workings was not eligible for Government assistance. We informed your constituent of our findings and suggested that he prepare an amended proposal to explore certain areas of the property not previously tested.

Subsequently, Mr. Massie visited the OME office on two separate occasions to discuss alternative proposals. During both of these meetings we suggested he obtain the services of a competent mining engineer or geologist to assist in preparing a new program.

You may be assured that upon receipt of a suitable proposal and necessary supporting evidence we will continue to give prompt and careful consideration to Mr. Massie's application.

Sincerely yours,

Arthur A. Baker

Acting Director

cc: General Files
Division Copy
Director's Chron
Economic Geology File
OME File
OME Reading File
Mr. Peterson
R-II

ECPeterson/bsl 9/24/68

180506

JAMES J. HOWARD
3D DISTRICT, NEW JERSEY

TELEPHONE NUMBER:
AREA CODE 202
225-4671

Congress of the United States
House of Representatives
Washington, D.C. 20515

COMMITTEE
ON PUBLIC WORKS

SUBCOMMITTEES:
RIVERS AND HARBORS
ROADS
PUBLIC BUILDINGS AND GROUNDS

SPECIAL SUBCOMMITTEES:
FEDERAL AID TO HIGHWAYS
ECONOMIC DEVELOPMENT PROGRAMS

September 17, 1968

0 ME
0740

110

Mr. W. T. Pecora, Director
Geological Survey
Department of Interior
General Services Building
Washington, D. C.

Dear Mr. Pecora:

I am writing to you on behalf of Mr. Charles Massie, Pope Valley Mines Corporation, 7 Paris Street, Newark, New Jersey 07105.

It is my understanding that they have applied for exploration assistance relative to their property. Although I am certainly not an expert in this field, because of the potential that is possibly there I hope your staff will give their full and thoughtful consideration to this request.

Thank you for your cooperation in this matter and with kind regards, I am

Sincerely,

JAMES J. HOWARD
Member of Congress

JJH/mj

180506

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/7/68	(on leave)	120
8/7/68	Kiebano	120
"	Johnson	110
		~~220~~
		120M

July 31, 1968

Memorandum

To: The File

From: Edward C. Peterson

Subject: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

Mr. Armand Massie, President, Pope Valley Mines Corporation, and and Aide to Senator Harrison Williams, visited our office today to discuss Mr. Massie's application for exploration assistance.

Most of the time was spent discussing paragraphs 1 and 2 of our letter dated July 10, 1968. We reviewed several mine maps with the Applicant which showed the deposit had already been explored except for small areas north and south of the workings. We advised Massie that the OME would consider an amended proposal limited to work in these areas.

At the conclusion of the meeting Mr. Massie stated he would submit a revised proposal limited to drilling 4 to 8 holes to explore the areas mentioned, and he may also propose some work on adjacent properties which the Company owns.

Harold Kiebano
for Edward C. Peterson

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

ECPeterson/bsl 8/7/68

[illegible] what is required on how to develop a suitable exploration program [illegible]

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/16/68	Peterson	120
7/16/68	Kilbourne	120
		110
7/16	cac	220
		120M

Pope Valley Mines Corporation
7 Paris Street
Newark, New Jersey 07105

JUL 16 1968

Re: OME-6740 (Mercury)
Pope Valley Mines Corp.
Silver Bow Mine
Napa County, California

Gentlemen:

A careful review of your application for exploration assistance indicates that the Silver Bow property has already been explored by three adits, unknown number of levels, sublevels, and stopes, and Government participation in the proposed $325,000.00 project designed to further test areas encompassing these workings cannot be justified. In addition, the proposal to drill a large number of closely spaced holes (100-foot centers) is considered development drilling rather than exploration and is not eligible for OME assistance.

Perhaps some exploration of the Silver Bow dike in areas known not to have been previously explored may be warranted, however, such a program must be on a limited basis where the project costs would be comparable to the value of the potential discovery. We would be pleased to consider an amended proposal along these lines.

If you submit a new proposal, please furnish information outlining the exploration targets, a description of the proposed work, supporting sample and assay data, and a revised cost estimate. Sample information should include the location of samples taken, how sampled, and sample widths.

If any of the proposed work is to be contracted, cost estimates must be supported by bids from three contractors for each item of work if possible.

This request for additional information should not be construed as a commitment by the Government to grant an exploration contract. We shall continue to hold the application pending receipt of the data.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region II - Mr. Peterson
ECPeterson/bsl 7/16/68

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/9/68	Johnson	110
7/10	Kilzgard	
7/10	[illegible]	220
		120M

File OME-6740

JUL 11 1968

Hon. Harrison A. Williams, Jr.
United States Senate
Washington, D. C. 20510

Dear Senator Williams:

We have your letter of July 2, and enclosed application for financial assistance in minerals exploration of the Pope Valley Mines Corporation of Newark, New Jersey.

Enclosed is a copy of our letter of July 9 to Mr. Armand C. Massie, President of the Pope Valley Mines Corporation, acknowledging receipt of the application. We will be pleased to keep you informed of any action taken on this application. You may be assured that it will be given careful and prompt consideration.

Sincerely yours,

Arthur A. Baker

Acting Director

Enclosure

cc: General File
Director's Reading File
Division File
Economic Geology File
OME docket
OME Reading File
OME Region II

FEJohnson/gla 7-9-68

JUL 9 1968

Mr. Armand C. Massie
President
Pope Valley Mines Corporation
7 Paris Street
Newark, New Jersey 07105

Subject: OMK-6740

Dear Mr. Massie:

Your application for exploration assistance, dated June 20, 1968, was delivered to the Office of Minerals Exploration today by Senator Harrison A. Williams, Jr., and assigned Docket No. OMK-6740. Please identify all future correspondence relating to your application by this docket number.

As soon as your application is reviewed, we will advise you further.

Sincerely yours,

FRANK H. JOHNSON

Frank H. Johnson
Chief, Office of
Minerals Exploration

Copy to R-II with form 40
and all attachments

HARRISON A. WILLIAMS, JR., N.J., CHAIRMAN
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WILLIAM E. ORIOL, STAFF DIRECTOR
JOHN GUY MILLER, MINORITY STAFF DIRECTOR

United States Senate
SPECIAL COMMITTEE ON AGING
(PURSUANT TO S. RES. 223, 90TH CONGRESS)
WASHINGTON, D.C. 20510

July 2, 1968

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

Attention: Mrs. Ault

Dear Mr. Johnson:

Enclosed is an Application for Financial Assistance in Minerals Exploration submitted by the Pope Valley Mines Corporation, Mr. Armand C. Massie, President. My office contacted your office earlier today concerning this application.

I would appreciate it if you could keep me informed as the application proceeds through channels. I would also appreciate whatever assistance you can give in a favorable disposition of the application. If my office can give you any assistance, please feel free to contact Jim Henry of my staff on Code 180, Extension 4744.

With best wishes,

Sincerely,

Harrison A. Williams, Jr.

Harrison A. Williams, Jr.

HAW:jhk
cc: Armand C. Massie

(Original retained in OME-6740 docket)

7/16/68

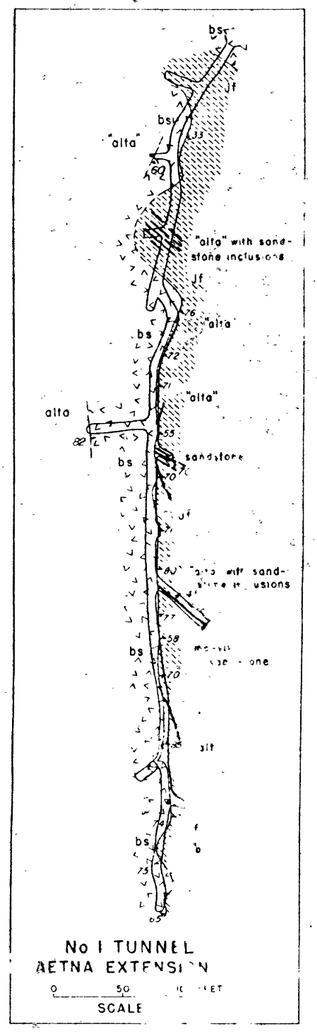
Advise Senator Harrison Williams of any action on this application

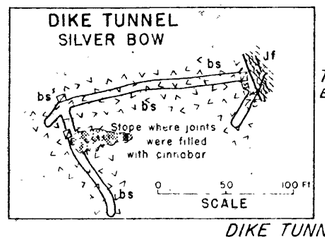
JCX

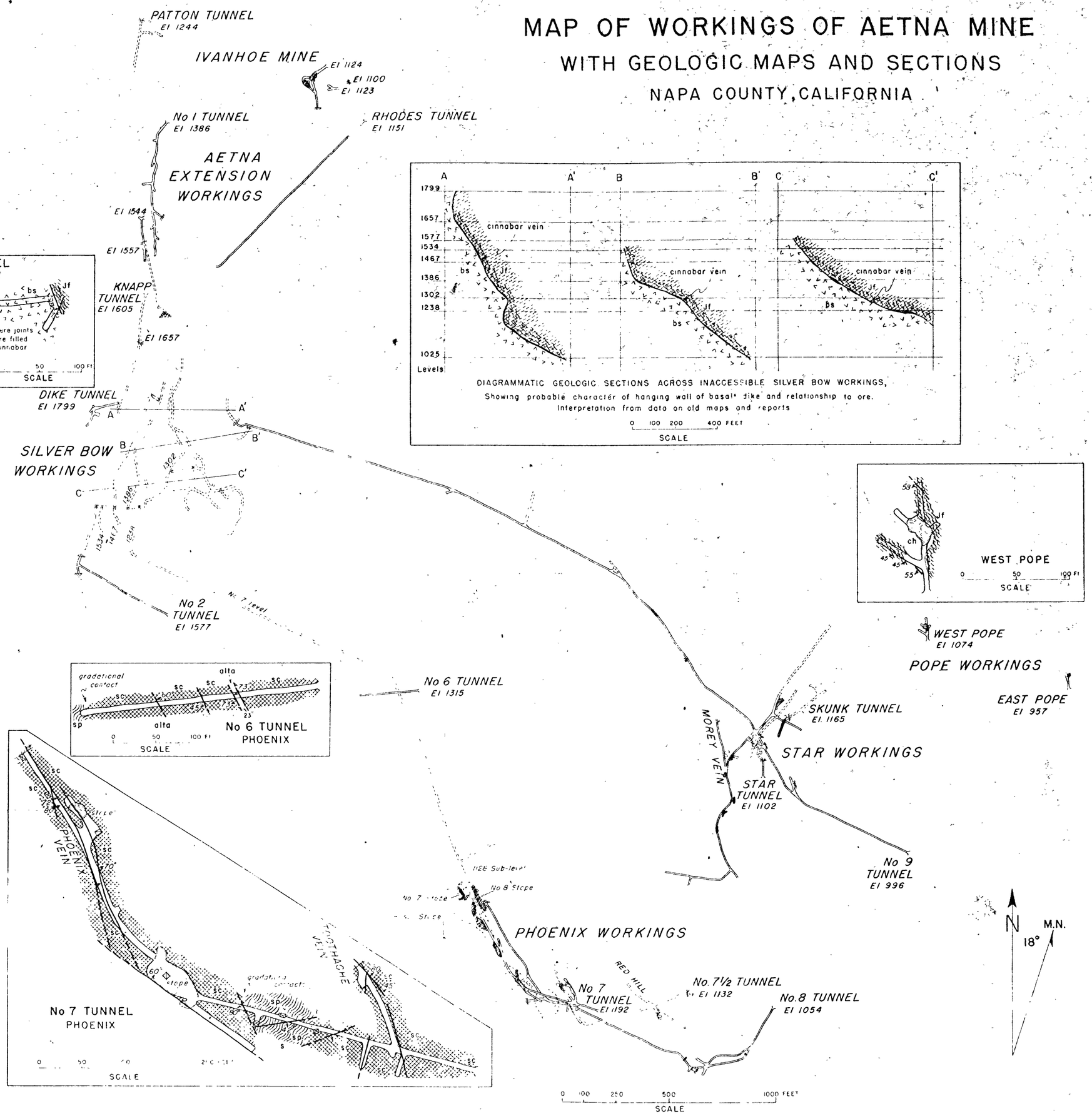
MAP OF WORKINGS OF AETNA MINE

WITH GEOLOGIC MAPS AND SECTIONS

NAPA COUNTY, CALIFORNIA







EXPLANATION

- sc — Siliceous-carbonate rock
- bs — Basalt
- sp — Serpentine
- jf — Sandstone and shale, Franciscan group
- ch — Chert, Franciscan group
- Brecciated zone
- 75° — Fault strike and dip
- 23° — Direction and pitch of striations
- 50° — Geologic boundary
- Glory hole outline
- Head, foot, winze or raise
- Stope
- Inclined workings, chevrons point down
- Caved workings, (broken line)

Partly compiled from maps of Basin Montana Tunnel Company.

Geology: R G Yates and L S Hilpert