MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6738

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- [ ] Withdrawn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) 9/22/68
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports
- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

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

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

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

72195-65

UNITED STATES
DEPARTMENT OF THE INTERIOR

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

June 27, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 1 1968

INITIALS	CODE

Memorandum

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

From: Field Officer, Region II

Subject: New Application (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

Enclosed is a poorly prepared application from a Mr. Alphie J. Cheff, P.O. Box 1062, West Sacramento, California 95691. Only one copy was submitted but we have made a Xerox copy for our file.

The applicant proposes to rehabilitate two old shafts on the property to make them accessible for study and sampling, followed by diamond drilling, and other underground exploration. Ownership of the property is uncertain and owner's consent to lien is lacking. The proposed project is excessively ambitious for the probable potential of the deposit.

H. K. Stager

Enclosures

MME Form 40
Jan. 65

Budget Bureau No. [illegible]
Approval expires Dec. 31, 1968

ORIGINAL COPY E. O. RECEIVED JUL 1 1968 INITIALS

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.)*

Alphie J. Cheff
P. O. Box 2084
Marysville, California 95901

NEW ADDRESS

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6738

DATE RECEIVED: July ~~June~~ ~~27~~, 1968

REGION: II

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED: —

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
none.		

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Copper Silver Gold

ESTIMATED COST OF PROJECT: $ By Shaft 215,000.00
By Alternate Tunnel 135,000.00

PROPERTY NAME	LOCATION COUNTY	STATE
Magonigal	Yuba	Calif.

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,* ~~[illegible]~~ 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 26-68
DATED

Alphie J. Cheff
BY (Signature)

Owner - Leaser.
TITLE

See Alternate Exploration Plan.

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).]

I[illegible] DUP. SEC., WASH., D.C.

U. S. Dept of the Interior.

Geological Survey — Att: Harold Stager.
Office of Minerals Exploration

Introductory Letter of Information.

We submit our application for financial assestance for exploration of minerals in Yuba County Calif. The respective area of exploration is called the Smartsville Mining District which has been inactive since 1905. The specific mineral exposures for exploration are at two shaft points in Section 6 - Township 15 North - Range 6 East. Attached is a rudimentary map for vicinity purposes.

A. J. Scheff

UNITED CALIFORNIA BANK

MARYSVILLE OFFICE • 519 "D" STREET • MARYSVILLE, CALIFORNIA 95902 • TEL. 742-8831

June 19, 1968

Mr. A. J. Cheff
P. O. Box 1062
West Sacramento, California

Dear Mr. Cheff,

Thank you for your recent application for a loan commitment of $100,000 for the exploration of mineral resorces in Yuba County. We regret to inform you that we will not be able to approve this credit as we do not make a normal practice of granting loans for speculative ventures.

If we can be of further service please contact us at your convenience.

Sincerely,

John P. Criss,
Assistant Cashier

JPC:sk

Cable Address — BANKAMERICA

Bank of America
NATIONAL TRUST AND SAVINGS ASSOCIATION

GRASS VALLEY BRANCH • 131 MILL STREET • GRASS VALLEY, CALIFORNIA 95945

June 20, 1968.

Mr. A. J. Cheff
PO Box 1062
West Sacramento, California

Dear Mr. Cheff:

Concerning your recent application for $100,000 for the exploration of mineral resources, we are unable, at this time, to grant your request.

If we can be of further service to you, please contact us.

Sincerely,

JEL;we

John E. Leese
Assistant Cashier.

[redacted] ~~P. O. Box 148~~ ~~Telephone 273-8408~~

A. J. CHEFF ~~CONSTRUCTION CO.~~
~~GENERAL CONTRACTORS~~
~~[redacted] Street - Grass Valley, California~~

Bank of America
Grass Valley Calif.

Gentlemen. We wish to make a loan of 100,000.00 from your bank for the purpose of financing a mineral exploration program of copper, silver, gold and other metals. We would repay this loan under usual interest rates and the principal thereof at basic terms from the mining operations after the mineral exploration in Yuba County.

Yours Truly

A. J. Cheff

June [illegible] PM

Mr. A. Jay
P. O. Box 1062
West Sacramento, Calif. [illegible]

Legend of sample marks: #1 = "Slat Rock #1"
#2 = "Square Rock #2"
#3 = "Sulphide

Prepaid, $14.00

Fire and chemical assay report: Gold, Silver, Copper.

Sample mark	Gold: Amount ounces per ton 2000 lbs	Gold: Value @ $35.00	Silver: Amount ounces per ton 2000 lbs	Silver: Value @ $2.07
1	0.035	$1.225	0.[illegible]	$1.0764
# 2	0.015	$0.525	0.56	$1.1592
# 3	0.085	$2.975	1.64	$3.3948

	Copper ✓ Amount found percent	Pounds per ton 2000 lbs
# 3	2.80 %	56.0 lbs @ $0.41/lb = $22.96/ton of ore

Thank you kindly

[illegible]
[illegible]g/ms

1cc

COPY

Ainsley Engineering Company

PArkway 3-3939
24 hour Service
P.O. Box 3724 - Seattle 98124
5807 4th Ave. So. - Seattle 98108

STAFF MEMBERSHIPS
AMERICAN CHEMICAL SOCIETY · AMERICAN INSTITUTE OF CHEMISTS · INSTITUTE OF FOOD TECHNOLOGISTS · MARINE CHEMISTS' ASS'N
AMERICAN WOOD PRESERVERS ASS'N · AMERICAN INSTITUTE OF CHEMICAL ENGINEERS · NATIONAL FIRE PROTECTION ASS'N
AMERICAN OIL CHEMISTS SOCIETY · AMERICAN INSTITUTE OF MINING, METALLURGICAL & PETROLEUM ENGINEERS

Report No. 12648

January 13, 1967

Mr. A. J. Schoff
2700 - South 133rd
Seattle, Washington

Dear Sir:

We hereby certify that we have analyzed a sample of

ORE

submitted to us by you on January 11, 1967 and we have to report as follows:

Results:

Gold (Au) - - - - - - - - - - - - - - - - - 0.08 oz./ton
Silver (Ag) - - - - - - - - - - - - - - - - 14.3 oz./ton
Copper (Cu) - - - - - - - - - - - - - - - - 10.8 Percent

50

Respectfully submitted,

A. N. AINSLEY ENGINEERING CORPORATION

By: Ernest Streep

ES/rp

Mr. A. Jay
P. O. Box 1062
West Sacramento, Calif. 95691

June 22nd, 1988 PM

Fire & Chem. assay: Gold, Silver, Copper. No mark. Prepaid. $1[illegible].00 includes spectrographic analys

Gold		Silver	
Amount ounces per ton 2000 lbs	Value @ $35.00	Amount ounces per ton 2000 lbs	Value @ $2.07
0.12	$4.20	0.26	$0.5382

Copper(Cu)	
Amount found percent	Pounds per ton 2000 lbs
5.50 %	110.0 lbs @ $0.41/lb = $45.10/ton ore

Note: Due to a very heavy work load in our spectrographic department, we will be quite late with the analysis report of this material Mr. Jay. Our apologies for this inconvenience to you.

Thank you kindly

George Bond

mmb:grg/mgl

A. J. Chuff,

To the Office of Mineral Exploration, Geological Survey U.S. Dept of the Interior, Region 2, 345 Middlefield Road Menlo-Park California 94024.

We herewith includ our application for Financial Assistance in Minerals Exploration in the region we call the Smartville Mining District, And also our introductory letter of information. The area of mineral exploration under this application is at two sites of mineral exposure particular in Sec. 6 - T15 Range 6 E and possible continuation

of mineral ledges in a south-south-east direction into section 5, section 7 and section 8 of Township 15 North Range 6 east. Also the strike has a north-north west direction from point of mineral exposure towards the Brownsvalley Mineral District. The elevation of the area is approximately 1000 feet and the climate is mild and warm and below snow belts. Shale formations are quite predominate and crops to surface extensively. The region is cattle graying land

and has much mineral land-
rights with a history dating before 1900.
The areas under subject have previously
been owned by the Federal Government
and the Beale Air Force Base. Some
of these lands have been declared
surplus by the Federal Government
and as unneeded by the Beale Air Force
Base. Historically the mineral rights
and the surface land rights have been
segregated many years ago. The
area has been known to be a
mineral depositary many, many

years ago. And small mines have operated about the year 1900. There has been a few copper mining operations of considerable size about the years 1900. And the mineral area has been described as the lower copper belt. The area has been very little explored since 1900 to 1907. When the Federal Government resold the surplus land to the public, the mineral rights were sold seperately from the grazing and surface rights. We have under lease considerable

mineral acreages of these lands and we are negotiating for further mineral land to explore in the area. We are of the opinion that extensive mineral ledges of very extensive lengths could be located. There are indications of mineral blowouts of considerable size or mineral ore shutes with ledge continuations. The minerals are primarily gold, silver and copper and some zinc. The sulfides in the shallow shafts of old workings are highly mineralized and values in

copper and silver approximate 75.00 per ton in the general run of some of these sulfides. There is open pit mining possibilities of 3 or 4 hundred thousand tons in the apparent site. It is our desire and ~~in these minerals exploration~~ we seek in our application, to determine the nature of these ores and to explore whether we have a ledge mining operation, and how much, or open pit possibilities along with the exploration of quantity and quality

of values.

We have leased a flotation and concentration plant of 200 Ton capacity 12 miles away on paved roads formerly owned by the Newmont Mining Corp. The mill is operable and electricity is fully in force. The mill has been down 8 years. If the values of our mineral resources can be sustained for mill feed and the exploration is successful both as to volume and values I believe we have a commercial

operation. But we need ~~[illegible]~~ an exploration program first of all.

We have two locations for exploration on separate vein structures and other vein structure which may be closely associated at one of these mineral exposures. We have leased mineral rights from F. D. Magonigal a rancher who acquired the minerals from the Federal Surplus Land Sales. A copy of ~~the~~ lease will accompany this application.

~~Over~~ shaft number 1 & 2 consists of an old mining operation, ~~abt~~ about year 1904.

The shafts are assumed to be 200 ft deep in solid formation, ~~of~~ one compartment, only, which is full of water. The dumps were quite large at one time but has been hauled away for road surfacing, ~~through-out the many years,~~ ~~with horses and teams~~. At the time these shafts operated the production was shipped to smelter in England and was also shipped to Utah. However there is no name to the mine and no livable being at this day, except one individual of 87 years of age who claims they

mined excellent ore on a beautiful eight foot vein of chalcopyrite* Boronite in quantity and gold and silver in the sulfides with some boronite of purple color. They single-jacked the ore and shipped it with horses to the railroad. But according to this old man, when the Grass Valley ~~gold~~ mines were running, ~~and~~ gold was the desired type of mining by all concerned. Not enough mining was done to prove anything in the copper belt and the costs were too ~~expensive~~ to ship ore and had to be very high grade, which apparently it was. But

gold was the convenient mineral and the sulfides were too complex. The assays from minerals of this operation around the dump which I made are listed in my assay list and copies there-of, are included. The plan of exploration is to unwater the shafts. To explore and sample the underground and to drift on the [redacted] veins exposed from the shafts both ways, in a northerly direction and if values go down to [redacted] sink and also drift the southerly strike of the vein, to determine values

and mineral volume. The surface eruption of this mineral body may be large as it appears on surface, and may be an open pit operation, which we hope. The means of exploring for sufficient values, for an open pit would be to make some bulldozer cuts to some depth by blasting and to analize and assay this material, Also by a core drilling plan over the area of perceptable mineralization.

Shaft #2 is about one [redacted] thousand feet from shaft

number one, to the west, on an entirely separate vein system. It has a one compartment shaft, also full of water in solid rock. Dump residues at this shaft have high grade copper, silver, gold ores of chalcopyrite and purple boronite. According to the old man, there is a rich vein in this shaft running up to 27% copper, which was also shipping ore in the early days and was hauled by wagon teams. It also has an eruptive mound like a large flowout, which

could be in a bed of extensive mineralization, and could be milling ore for the flotation operation. The quantity of anticipated mill run ore from these two shafts could be five hundred thousand tons. This cannot be factually determined until our projected exploration plan can be done. We plan to explore these shafts and the adjoining area under the same plan as Shaft number one. There is a large hill on south side of shaft number two in which the vein system may penetrate

this hill to the south, which would result in flooding considerable ore. There are vein systems at both shaft sites.

We are including all possible information as required with this application Form #40 specified on back of application.

Yours Truly
A. J. Scheff.

~~We~~ will enclose all possible required information and answers on the back form of your application form on separate sheets attached to application

A. J. Scheff

Item #6. - The experience of the applicant ~~[illegible]~~ A. J. Cheff starts with his employment in the Butte copper mines in the years 1925 to 1931 as a miner and shifter. After 1936 the firm of A. J. Cheff Co has been a mining contracting company doing mining and underground work. ~~these many years.~~

The supervision and management of this exploration work will be by A. J. Cheff and son M. D. Cheff and also brother A. J. Cheff.

Yours Truly
A. J. Cheff

P.O. Box 1062
West Sacramento Calif
95691

Financial Eligibility

A. Submitted, attached are bank letters of rejection of my request in writing for 100,000.00 bank loan for mineral exploration in Yuba County

B. The applicant is wholly operating on an individual, basis, and has a mining contracting organization wholly owned by himself, but has mining and supervisory personal on a salary basis.

C. The applicant has underground mining equipment of 100,000.00 book value. He has employed considerable employees, particularly miners, in the State of California and carries compensation insurance with the State. He has a payroll account and office accountant for payroll and office procedure. He has a bank account. The applicant will pay his share

of the exploration costs.

Item # 2 Applicants Rights in Land.

A. The applicants interest in the land and mineral rights are by lease of mineral ground. A copy of the lease is submitted and attached. There are no liens or encumbrances on the mineral rights. Easements and rightaway have been acquired for roads and operating area, from surface-rights owners. All mineral taxes are paid at Yuba County. Book and page numbers of tax reports are in the lease as recorded in the record of the assessor of Yuba County, Marysville Calif.

B. Legal Description. All mineral rights and mineral to be explored under this application are in Sec. 6 - Township 15 north - Range 6 E

3. See attached map.

The lands were formerly owned by the Federal Government and a part of the Beale Air Force Reservation. Sec. 6. among other sections were released by the Federal Government as surplus property. They land and mineral rights were resold to the public. The mineral rights are now released for exploration, and mining by the owners and leasers.

The mineral land in question for exploration under this application is owned by L. G. Magongal of Lincoln Calif. Route 1 - Box 416 - 95648

The mineral land bound under this exploration application and subject to Government royalty, are indicated on the

4. attached mineral map. The Magonigal mineral rights under lease by applicant is 80 acres at Shaft #1. The Magonigal mineral rights under lease by applicant is acres at Shaft #2 & #3 These mineral rights are embraced under the Government Royalty. Other mineral lands to be acquired by the applicant may come under additional exploration procedure, where in Government Royalty could apply. The lands and minerals in question are all patented, and taxed by Yuba County.

C. All lands in the area are legally owned.

3. Phisical Description. 'Attached Map'

A. There has been no mining at the applicants proposed explorations since 1904-05 as near as can be known. There was some productive mining in 1917 at the 'Dairy'

by mine and considerable mining at Spencerville in 1900. The mine workings consist of 2 single compartment shafts, filled with drainage and seepage water. The depth of shafts is not definately known and underground workings are not known but were in solid sulfide formation. The copper chalcopyrite and boronite quartz at shaft 1. on surface of dump will assay 70.00 per Ton. According to the only man living that has worked in that shaft claims the ore went 27% copper.

B. There has been no interest by me, in this property until about 2 years ago. I have a background of copper mining, and the ores and indications of this property seem very good for a copper mine, if the

If mineral copper values will go at depth, and hold the indicated values on the dump.

C. The past production is only known by heresay, under severe conditions to mine copper, and transportation costs excessive and non existent 60 years ago. There is no known mine record or known mineral owners at that time.

D. Indications are that known ore reserves may be excellent. An 8 ft lead of high grade copper ore at #1 Shaft is the only evidence from a still living being. There is very little places to assay except remaining residue from dumps which have been hauled away. Assay certificates which we have made are included. ~~A pile of mine~~

E. A pile of mined ore at Shaft #1.

8/ is still there after 60 years. This one is copper ore, of high excellence and high values assaying 70.00 per Ton or more. This one is what convinced me that it has been slightly tapped and mined because the shaft facility is small 1 compartment and probably was mined by windlass and by single jack. F. Shaft #1 has mined excellent values as indicated on the dump. Shaft #2 has been a larger mining enterprise and the shaft may go 200 ft. I have unearthed some rich copper ore at this dump but the dump has been extensively hauled away. At both shafts are indications of continuity of ledges of considerable size. 5 miles away on the direction of these ledges has been a gold mine 2700 feet deep owned by

9. The Newmont Mining Corp. The high grade of this copper ore makes it feasible and probable of commercial ores to be mined at successfully economic results. We have a 150 flotation plant under lease which also provides feasibility for successful mining of copper silver gold ores and processing same by flotation at this site.

H. The only geologic or engineering reports I know of are scant and superficial from Calif. Mineral Reports, which have little to say about this district and area. An exploration program and some diamond drilling would do this copper belt some good. A visit by your people is very necessary and should become a good mineral report. Assays will be furnished.

10/4 A. Assessibility of Property.
Vicinity and topographic maps will be furnished and are attached for O.M.F. representative. I A. J. Oheff will meet the representative. I will meet him at Browns Valley post-office, and go with him to the mine site. Assessibility to the mine property is convenient a half mile from paved road on State Game road ~~on~~ State Game property to Shaft 2. There are no accessable mine workings.
B. From Marysville Calif it is 10 miles to Browns Valley on Highway 20 just off Hiway 20. From Browns Valley to the mine site is 1½ miles by Hiway 20 to Smartsville and then south on Beale Air Force Hiway.
5. Exploration Work.
A. The exploration plan is to unwater Shaft #1 and Shaft #2. To rebuild and repair and install ladders and manway in these shafts. To make examination

11 of old min● workings and ● find the source of the high grade ore found on the dumps.

To drift on the ledges indicated on surface from the low area of the shafts. To do some shaft sinking if indications are good for depth of the ores, and for exploration of values. Some core drilling is possibly necessary.

A cross cut between shaft one and shaft two may be in later schedule, to uncover indicated veins between shafts. It is believed that the shafts are entirely too shallow to prove the ore bodies. The ores on the dumps are in stages between the oxides and sulfides. Considerable exploration could be done and need to be done. However it is the plan to limit the exploration if commercial ore is found, so that some mining can be done and processed in the

12/ ~~in the~~ Bowns Valley flotation plant formerly owned by the New Mont Mining Co. The plant is now owned by a Corporation called Paramount Mining Co and is practically ready to operate.

Further exploration is planned to explore the veins and shutes of ore both directions from both shafts. It is possible these veins could be miles long as there are such indications. A map of the mineral indications are attached. For the amount of required exploration, a minimum of 500 ft of drifting in each shaft should be done now and a minimum of 200 ft of shaft sinking in Shaft #1 and at least 100 ft in Shaft #2 now. Some core drilling for depth of ores should be done. Approximately 2000 vertical feet of core drilling and some lateral core drilling. Later extensions of these explorations should be done if values are retained and continuity in depth.

13.- B. The access roads are established to near the shaft sites and need only ballasting and mine rock surfacing as a Top soil of clay is very bad in winter and rain seasons. The cost will be small.

C. If an O. M. & contract is executed the work shall start immediately and finished in seven months after shafts are rehabilitated. The rate of progress on drifting should be 5 ft per shift. The rate of shaft sinking should be 5 ft per day on 2 shaft basis with minimum crews.

6. Experience of applicant. - The applicant Mr. A. J. Cheff shall be manager and supervisor of the mine work and shall personally outline all work and shall be assisted by O. J. Cheff as mine shift foreman. Mr. A. J. Cheff and O. J. Cheff are formerly from the Butte copper mines. A. J. Cheff has been an underground mining contractor for 25 years as has accomplished 14 million dollars worth of work, by contracting.

Item 7. Estimate of Costs, at Shaft #1, #2 = Dozer work removing old dump and establishing road to Shaft #1 Loading old dump rock and placing on road with loader and truck

96 hours of work by dozer and making out for operating shaft of two compartment. By rental

96 hrs of loader & truck removing excavations. By rental

96 hrs of ~~Dump~~ truck work by rental.

96 hrs D 8 Dozer at 24.00 hr.	=	2304.00
96 hrs Loader - 2½ yd. at 16.00 hr.	=	1536.00
96 hrs Dump Truck at 14.00 hr	=	1344.00
96 hrs Fuel Truck Service and other service 10.00 hr		960.00
Total Surface Costs at Shaft #1 #2	=	6,144.00

Repair Shaft #1 to bottom? and enlarging shaft to 2 compartment as a working facility. 200 vertical feet. 6 men per shift for shaft work plus foreman. 28.00 per man day for miners plus industrial insurance and P.L.B.&A. insurance plus some fringe plus overhead of 32.00 per man day, which is less than prevailing area =

wages for miners. For 200 vertical feet of shaft at 4 ft of progress per day = 50 working days at

~~7~~ X 32.00 pay roll per day = 224.00 per day for 50 days

= 11,200.00 for Shaft Miner Payroll. = 11,200.00

2 Months Supervision by C. J. Cheff at 600.00/mo = 1,200.00

1 Carpenter and Timber Framer 50 man days. at 32.00/day = 1,600.00

50,000 B.ft of Shaft & Tunnel Timbers at 125.00 per M. board feet = 6,250.00

20 Tons of Shaft ~~steel~~ Hardware, hanging bolts, Wall plate angle plates, shaft guides, steel members at Stations and skip pocket and ~~rock~~ transfer ets at 10¢/lb = 6,000.00

Freight & Service Freight Costs for 2 months = 2,000.00

Rental of Service Crane for Shaft Sinking 2 months at 2800.00 per month, with Crane crew. = 5,600.00

Rental of 600 Cu ft Compressor 2 Month at 750.00 = 1,500.00

Rental of 100 KW Power & Light Plant 2 mo at 550.00 = 1,100.00

Rental of Gas Welder Machine. 2 months at 200.00 = 400.00

Rental of Clam Bucket for shaft sinking 2 mo at 400.00/mo. = 800.00

Rental of ~~Rock~~ Drills & shaft equipment ~~tools~~ etc. 500.00

Total Costs of Shaft Construction #1 & #2 = 44,294.00

No independent shall be used on this work, but equipment rented shall be used on the exploration on the basis of rental-option to purchase.

Power, fuel, lighting, ventilation, explosives materials are additional shaft reconstruction costs plus head frame at both shafts, for exploration by drifting shall be a separate cost.

2 Months of fuel costs at 55.00 per day 60 days = 3300.00

Power and lighting supplies = 2 months = 1000.00

Rock drilling parts, equipment, drill rods, carbide drill bits, and repair & service costs for 2 months = 5,000.00

Explosives for shaft work and detonators =

3 Tons of 40% dynamite at 560.00 per Ton = 1680.00

Electric detonators and blasting supplies = 1400.00

2 Portable warehouse Bldgs. at 1500.00 ea = 3000.00

Total Materials & Supplies for Shaft Reconstruction except head frame and hoist = 59,674.00

Estimate of Labor Cost, By Shaft Sinking and Drifting.

Additional Shaft Sinking in Solid Rock 2 Compartment

Shaft #1 = 150 ft
Shaft #2 = 150 ft. } = 300 Vertical feet at = 164.00 per ft Labor Cost.

Use of 4 Shaft Miners at 32.00 per man shift = 128.00 per shift.

Use of 1 Shaft Foreman at 36.00 per man shift. = 36.00

Use of 1 hoist man at 32.00 per man shift 32.00

Use of 1 Carpenter + framer at 32.00 per man shift. 32.00

Use of 1 Compressor man + Mechanic at 32.00 per shift = 32.00

Use of 1 Mine Superintendent at 38.00 per day = 38.00

Use of 1 Shaft Mucking Machine Man at 32.00 = 32.00

Use of 1 Top + yard Laborer at 24.00 = 24.00

Labor Total Per Shift, = 354.00

2 Shifts per day = 2 x 354.00 = Labor = 708.00

20 Shifts per month = 20 x 708.00 = 14,160.00

Average progress of Shaft Sinking = 4 ft per day

~~1000 ft of drift tunnel expected~~

for 300 ft. = 75 day = 3.½ month 3½ x 14,160.00 = 49,160.00

300 Vertical feet ÷ into 49,160.00 = 164.00 per ft Labor Cost.

= 164.00 per ft Shaft Sinking Labor Cost.

Estimate of Labor Cost for Tunnel Drifting using the same labor crew per day of 2 shifts = 708.00 1000 ft of Tunnel Drifting at 4½ ft per shift = 9 ft per day of progress. = 111 days at 708.00 per daily labor cost = a labor cost of 78,588.00

= 75 days shaft sinking + 112 days tunneling = 187 total days of labor for exploration with exception of diamond drilling 12000 lineal ft.

Progress of diamond drilling will equal 200 Li ft per day for 2 drills with same crew for servicing = 708.00 divided by 200 Li ft = 3.54 per lineal ft of labor x 12000 Li ft will equal = 42080.00 for drilling program 78,588.00 for tunnel drifting and 49,160.00 for Shaft Sinking Plus 59,674.00 for Mobilization work and open cut work, plus 1500 assays at 4.00 each = 6000.00

Total Mobilization Total Labor Cost = 235,502.00

19 Operating Materials & Supplies for period of Construction of Shaft Sinking and Tunnel Drifting.

Explosives = 50 lbs per ft of Shaft + Tunneling average 1300 ft of Tunnel + Shaft. = 65000 lbs of explosives at 30¢ per C = 19,500¢ for dynamite 40% Electrical Detonators = 15000 Units at 25¢ ea = 3750¢ = Total for explosives with 500 lbs wiring at 1¢ per lb will equal a total for explosives of 23,750¢

Rock Drill parts, drill rods, Rock drill bits, etc = drill rods at 15¢ ea = 6000¢

1400 drill bits at 10¢ each = 14000¢

Rock drill parts, small drills = 10,000¢ = 30,000¢

Misc Materials & Supplies, Fuels + Power and Ventilation Lump sum of = 35,000¢

88,750¢

Diamond Drill bits and rods for 12000 ft of drilling = 1¢ per ft average. = 12000¢

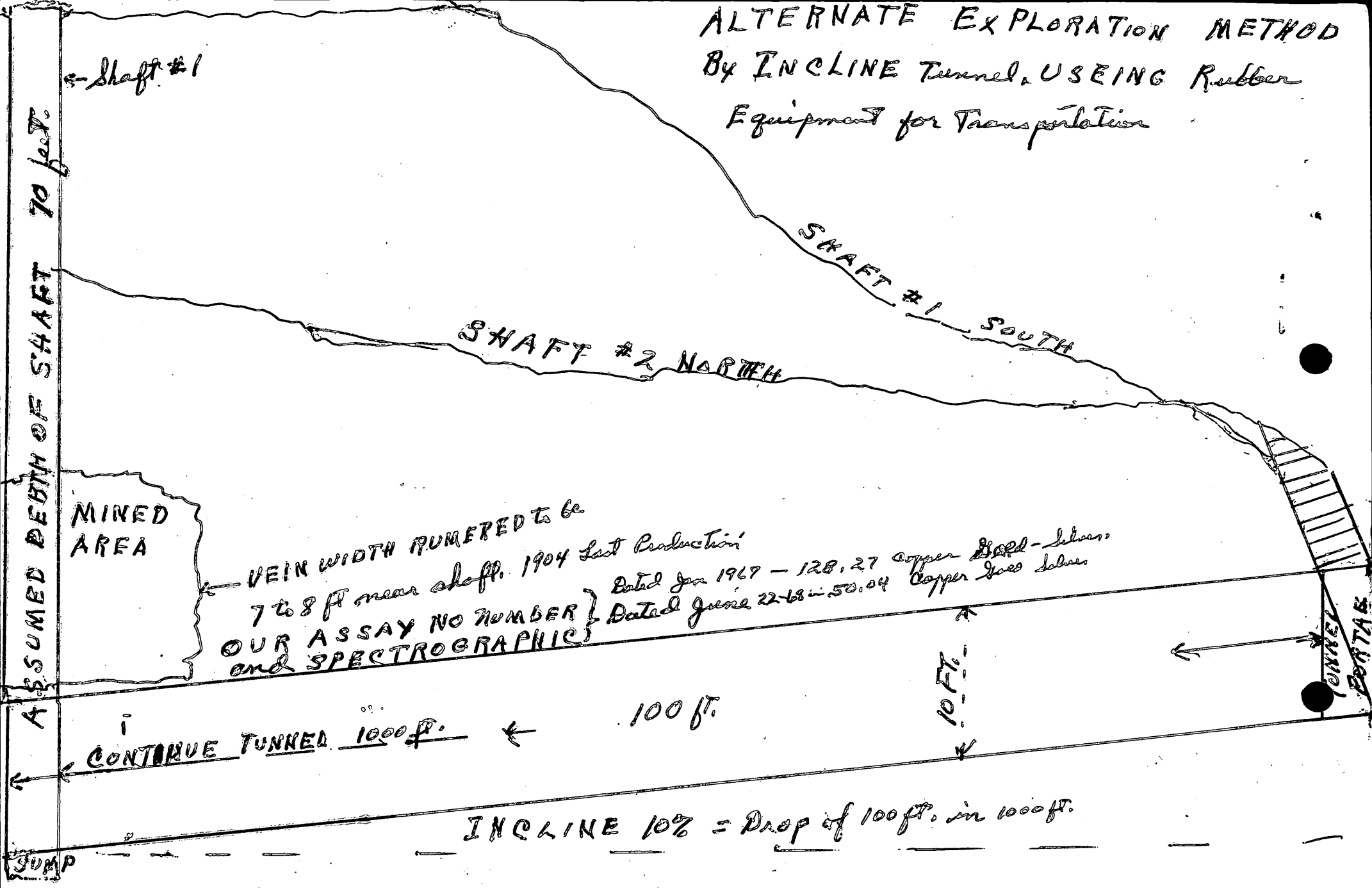
Total Materials Supplies. 100,750¢

20. Operating Equipment by Rental Purchase Plan

200 Work Days of Shaft Sinking and Tunneling = 10 months on a 5 day week basis.

1 Shaft hoist at 750.00 per mo	7,500.00
1 Power Plant 150 K.W. at 800.00 per mo =	8,000.00
2-600 cf Portable Compressors at 750.00 ea =	15,000.00
2 Gas Welders at 150.00 mo ea =	3,000.00
6 Pneumatic drills at 100.00 mo ea = 600.00	6,000.00
6 Sinker drills at 100.00 mo ea = 600.00 =	6,000.00
1 Dump Truck at 400.00 per mo =	4000.00
1 Flat bed Truck at 150.00 mo =	1500.00
2 Tunnel Mining Mucking Machines at 500.00 mo ea =	10,000.00
Misc Trackage, rails, assessories	5000.00
Misc Piping air + water, fittings etc.	5000.00
1 Surface loader & surface lift. =	7500.00
Misc Mine Cars and Locomotives	15000.00
Total Equipment Cost =	93,500.00
Carry forward	336,252.00
Total Cost =	429,752.00

ALTERNATE EXPLORATION METHOD
By INCLINE Tunnel. USEING Rubber
Equipment for Transportation

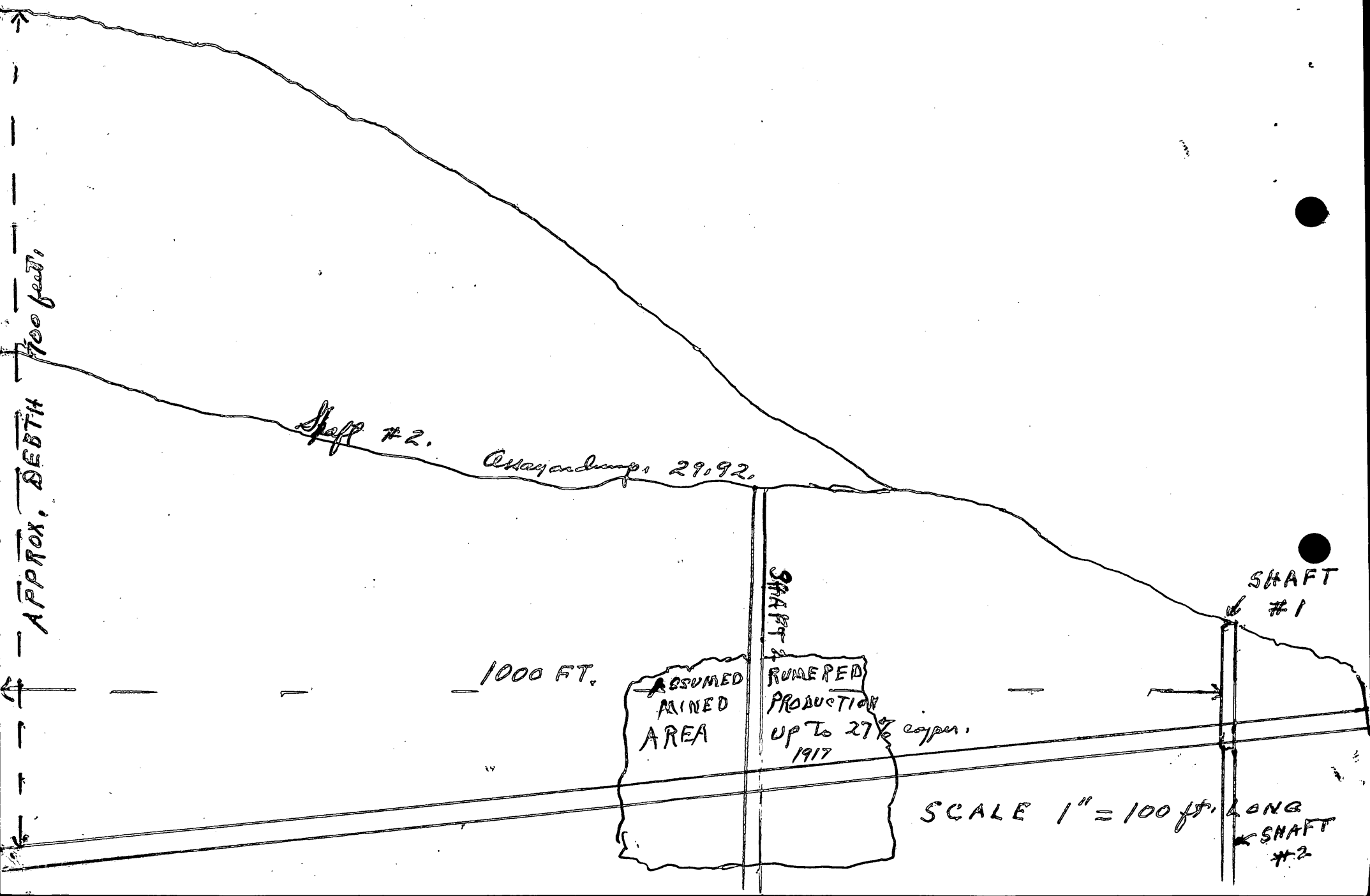


SCALE - 1" = 10 Ft-Long.

For SHAFT #1 or SHAFT #2. ALTERNATE EXPLORATION METHOD

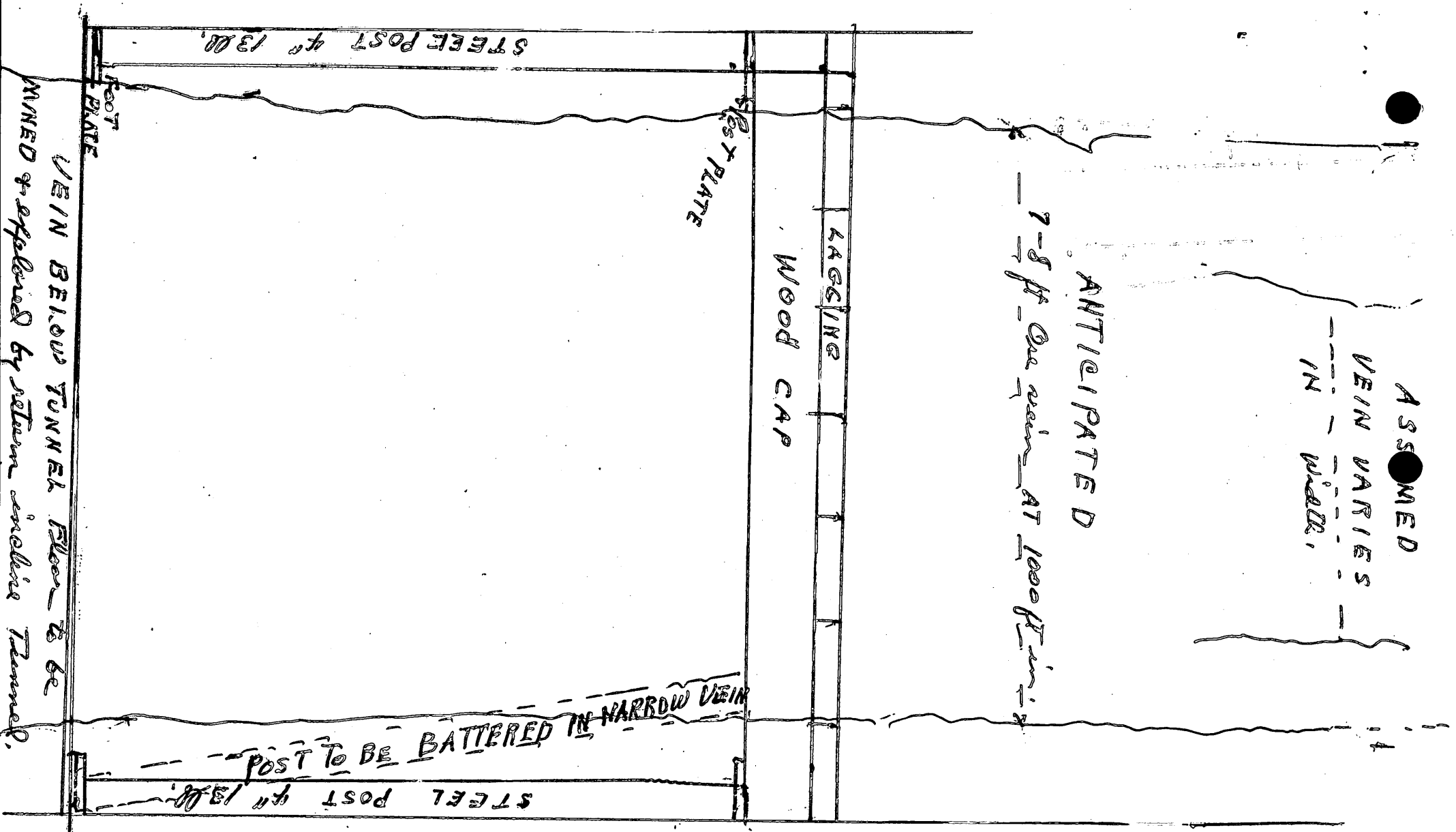
By Incline Tunneling for depth, instead of shaft mining

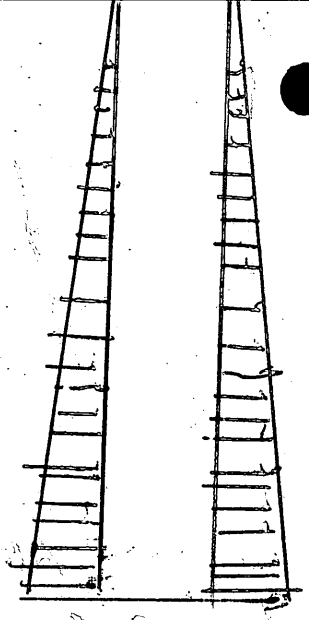
Rubber Tired MINE HAULAGE



SHAFT #1 or SHAFT #2 ALTERNATE EXPLORATION METHOD

CROSS section of Tunnel for exploration and for future mining. CONSTRUCTION of larger Tunnel for Rubber Tired Equipment - Cheaper than mine rails tunnel of smaller section. SHAFT METHOD of mining eliminated.





Alternate Exploration Method

Office of Mineral Exploration

Gentlemen: We have made an exploration plan enclosed, by mining "shaft method" from existing shafts. We think the costs of exploration and mining under these old fashion ways are becoming obsolete and economically not feasible in our inflated economy. Methods of underground mining must change in line with underground mining advancement and changing mining equipment means and methods.

We herein submit a new modernistic underground mining method, which in the future, I believe, will renew underground mining

This method I call escalator tunneling, to gain depth on a vein system. And mining operations can be done considerably cheaper than shaft methods. This method can be applied in exploration as well, and cheaper than the plan as outlined in my initial exploration application. In line with prevailing labor cost in this area and material and equipment costs we can build this tunnel for 135.00 per ft. — For 2000 lineal feet which should be the minimum footage for an appraised exploration fitting with this expected ore recovery, it will cost 270,000.00 dollars.

3

For 1 shaft exploration it will cost 135,000.00 dollars. At shaft #1 it is probable 150,000 Tons of ore could be blocked out by exploration above the timbered tunnel floor. If the exploration is successful a vast amount of ore could be blocked out below the tunnel by a reverse tunnel escalator plan on incline. Also to extend the 1000 ft tunnel on the same incline. The mining of this ore could be much more commercially feasible than the shaft projections. We think this ore may assay up to dollars per ton on the basis of our sampled ore mined in this shaft many years ago.

We think the 135,000 dollar cost of exploration would be reasonably cheap even if results are much below what is here outlined and anticipated. If the ore has continuity in vein structure we can expect results; as the ore, as sampled, at this shaft #1, definately has good copper values. I drove a tunnel 12 X 13 ft in diameter 18500 feet long about 100 miles from here in the Sierras at a contract price of 151.00 per foot. The labor costs were prevailingly high and will apply at this exploration project also, because California has high miner scales. I enclose samples and maps and a

copy of the lease along with other documents and letters and also my shaft exploration plan which amounts to approximately $15,000.00 for each project by shaft method. For our tunnel inaline plan we will need a minimum of $135,000.00 for each exploration. We may only try one to start with and if it is successful we can then get on the other project. I am sending a Wheatland Quadrangle Map from the U.S. Geological Survey. As I said I would like to meet your O.M.E. Representative at the Browns Valley Post Office. My Phone #is Marysville 743-4497. I have made red circles on the map.

That is, the Wheatland Quadrangle Map, at the mine location in Section 6 and the Browns Valley Post Office near Hwy 20. When you get to Browns Valley please phone again to 743-4497 and I shall be promptly at your service in about 15 minutes. Or else I shall be waiting for you at the Post Office. The weather is quite fair and good in this area throughout the year.

We enclose spectrographic and assays at Shaft #1 lately received from mineral pile at Collar of Shaft #1

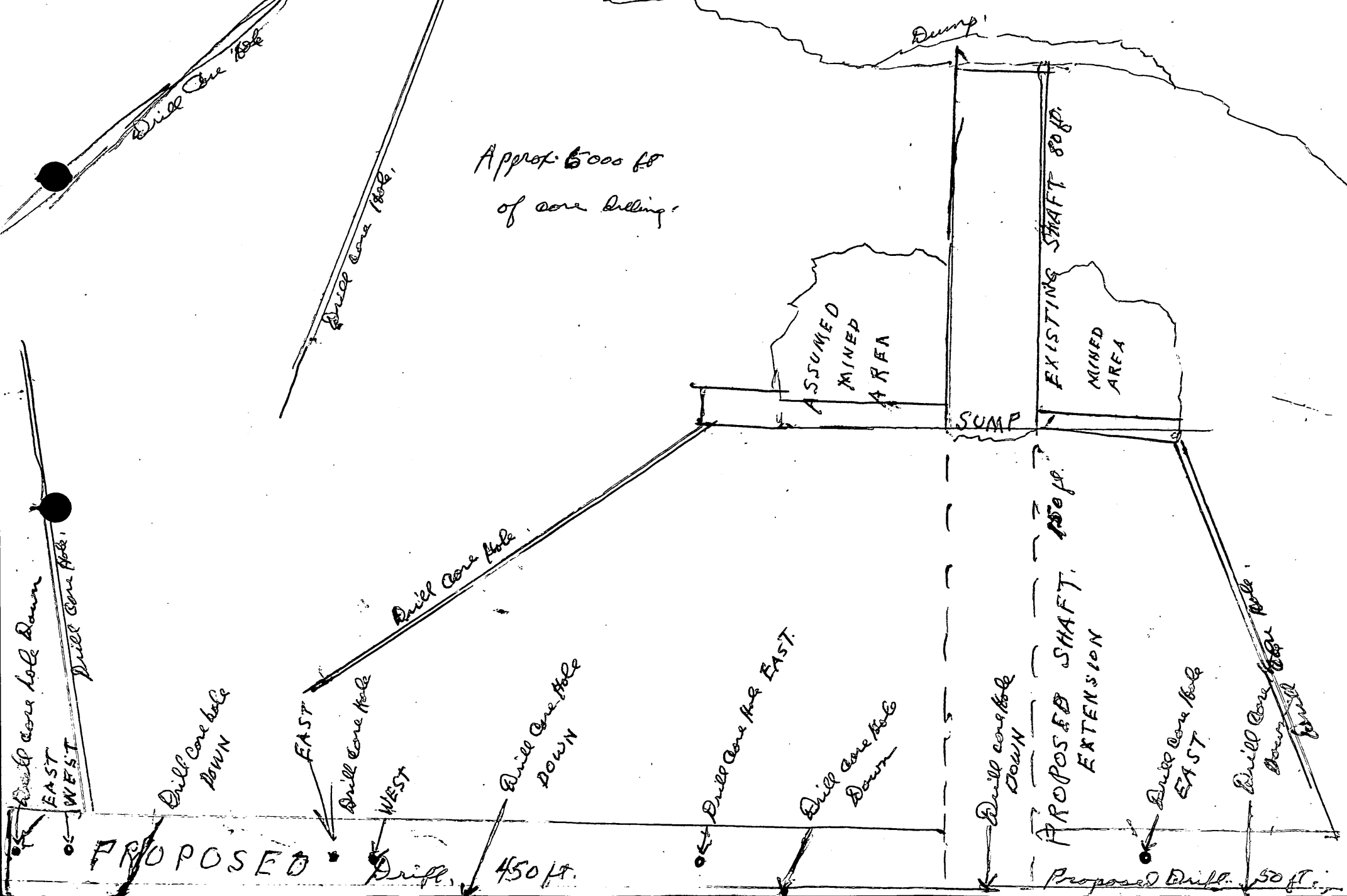
We hope you have everything you need for a visit out here.

Yours Truly
A. J. Oleff

Mail address Temporary P.O. Box 1062
Phone 743-4497 Marysville Calif. — West Sacramento 95691 Calif.

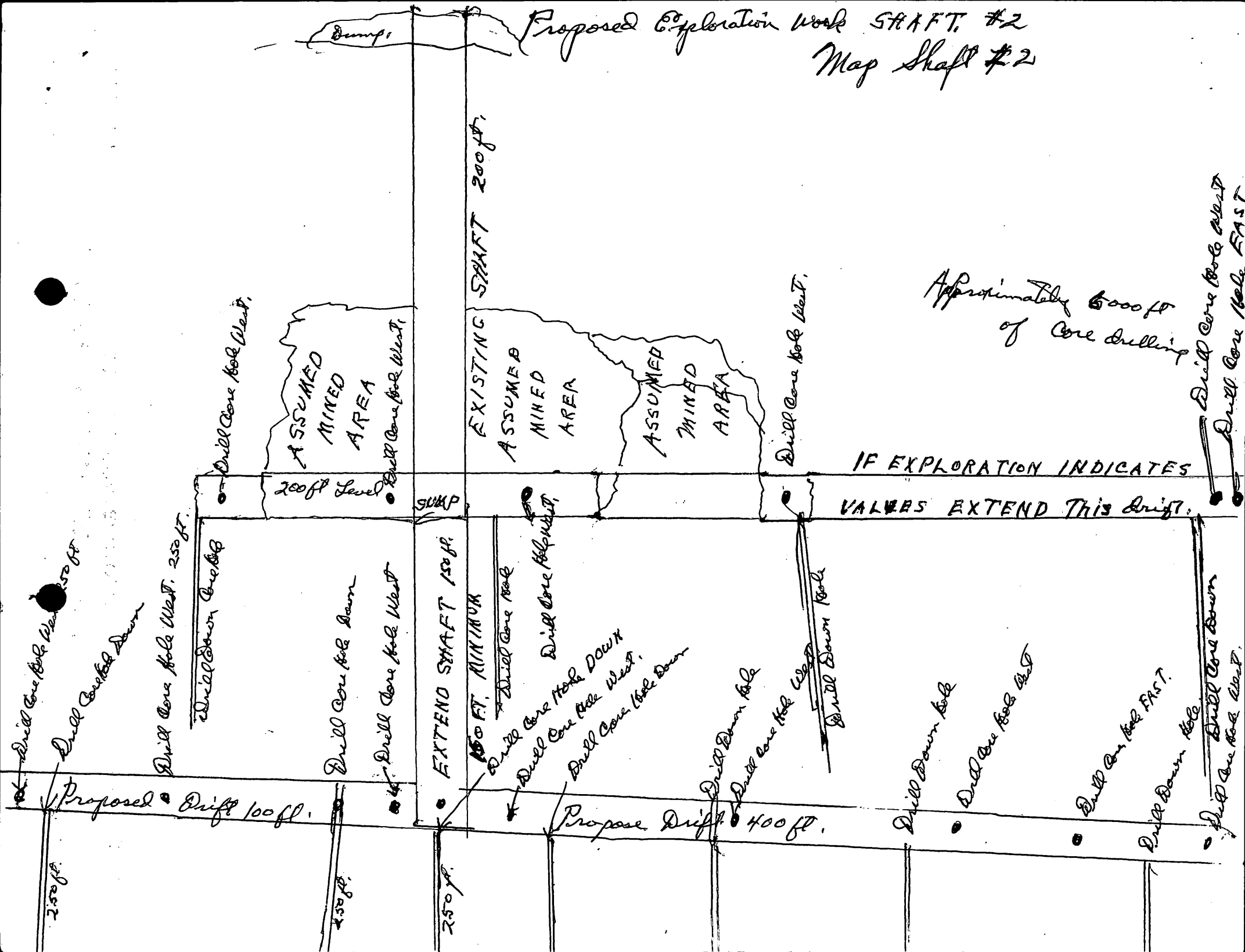
Proposed Exploration Work at Shaft #1.

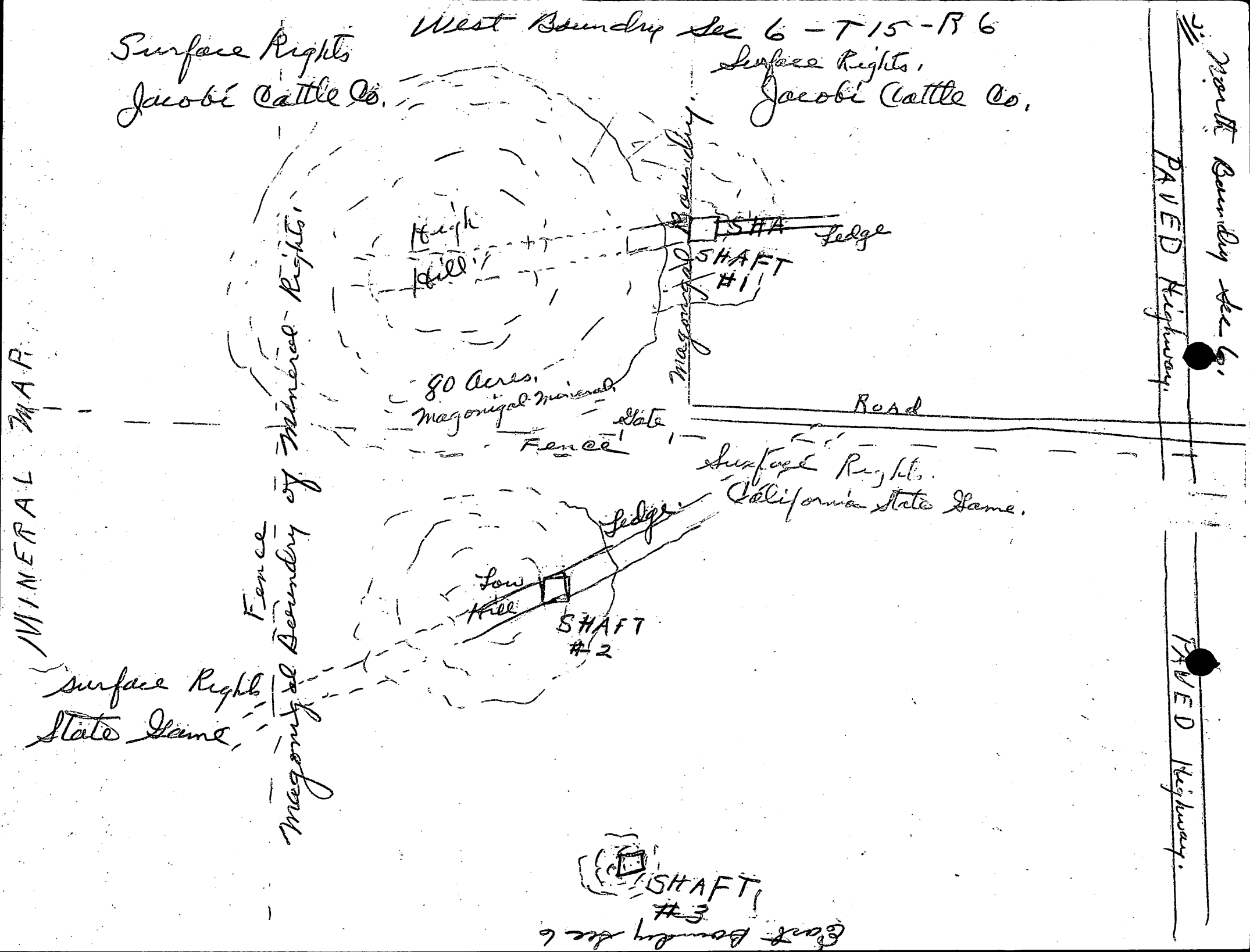
Map Shaft 1



Proposed Exploration Work SHAFT #2

Map Shaft #2




West Boundry Sec 6 - T15 - R6
Surface Rights
Jacobi Cattle Co.
Surface Rights,
Jacobi Cattle Co.
North Boundry Sec 6,
PAVED Highway,
High Hill
SHA
Ledge
SHAFT #1
Magonigal Boundry
80 Acres,
Magonigal Mineral
Rights
Road
Gate
Fence
Surface Rights.
California State Game.
Ledge
Low Hill
SHAFT #2
Fence
Magonigal Boundry
MINERAL MAP
Surface Rights
State Game
PAVED Highway.
SHAFT #3
East Boundry Sec 6

orm 7

OFFICIAL FILE COPY

Date	Surname	Code
11/20/68	Peterson	120
"	Kirkham	120
		110
		220

NOV 20 1968

Mr. Alphie J. Cheff
P. O. 2084
Marysville, California 95901

Re: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magenigal Ranch
Yuba County, California

Dear Mr. Cheff:

Pursuant to your recent request for the return of certain documents submitted with the subject application for assistance, we are enclosing the following material:

1. Letter of denial of application from Chief, OME.
2. Copy of Lease and Option to Purchase.
3. Letters of loan refusal from two banks.
4. Five pages - Assay and spectrographic data prepared by commercial laboratories.
5. Seven pages - (yellow note paper) Assay data prepared by Applicant.

Sincerely yours,

FRANK E. JOHNSON (gla)

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures

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

ECPeterson/bsl 11/20/68

UNITED STATES
DEPARTMENT OF THE INTERIOR

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

November 18, 1968

Memorandum

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

From: Field Office
Region II

Subject: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 19 1968

INITIALS	CODE
JEJ	110
gla	120 M
EDR	120 P

Enclosed is a self-explanatory letter from the applicant requesting the return of various documents. Also enclosed is a copy of "Lease and Option to Purchase" which we are forwarding so that all the documents can be returned in one package.

This Lease is the only document in our file that is returnable. All others are copies made here, since only a single original of the application was submitted.

H. K. Stager

Enclosures

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
10/25/68	E. Peterson	120
"	Stirbens	120
11/25	Johnson	110
11/28	Rubgson	
12/18	Kerr	
		220

AIRMAIL

Mr. Alphie J. Cheff
~~P. O. Box~~ 1062 P.O. Box 2084
~~West Sacramento, California 95691~~
Marysville, Calif. 95901

Re: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

Dear Mr. Cheff:

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 exploration assistance is denied.

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

Sincerely yours,

FRANK E. JOHNSON (gfa)

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/sbl 10/25/68

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
10/25/68	Nielsen	120
		120
10/25	Johnson	110
		220

October 25, 1968

Memorandum

To: The File

From: Edward C. Peterson

Subject: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

Justification for Denial of Application

The OME field examiner found no geologic evidence on the property to justify further exploration, and he concluded that the probability of discovering any significant ore reserves with the proposed exploration was too small to justify Government participation in the work.

Underground workings were not accessible to the examiner and no surface outcroppings of mineralized material were found. There has been no recorded production from the property, and geological data required to support further exploration has not been furnished and apparently, is not presently available.

I concur with the Field Officer and recommend 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

ECPeterson/bsl 10/25/68

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR

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

October 22, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 24 1968

INITIALS	CODE
	130
	120
	110
	120 P

Memorandum

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

From: Field Officer
Region II

Subject: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

Enclosed is an Application Report on the subject property recommending denial of the application on the basis that the potential of the deposit is too low to justify Government participation in the proposed exploration. Also enclosed is your copy of the applicant's letter in reply to your request of July 10, 1968.

H. K. Stager

Enclosures

UNITED STATES

DEPARTMENT OF THE INTERIOR

STEWART L. UDALL, SECRETARY

GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION

REGION II

On-Site
Exam
Report

APPLICATION REPORT

OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

By

H. K. Stager
Field Officer
OME, Region II

October 22, 1968

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ILLUSTRATIONS

Figure 1. Index map of Yuba County, California

INTRODUCTION

Mr. Alphie J. Cheff, P.O. Box 2084, Marysville, California 95901, applied to the Office of Minerals Exploration for Government assistance in an exploration project, Docket OME-6738, to explore for copper, silver, and gold on the Magonigal Ranch, Yuba County, California. The applicant infers the presence of minable copper ore bodies along veins in schist of Jurassic-Triassic age and wishes to explore for these ore bodies by sinking inclined shafts on the veins.

A review and field examination was requested by the Office of Minerals Exploration and was made by H. K. Stager, Field Officer, on September 19, 1968, accompanied by Mr. Alphie J. Cheff, the applicant. The applicant's sketches and other data were examined and compared with surface exposures on the property. The underground workings were flooded, or filled with debris, and not accessible for examination. There were no mineralized exposures accessible for study or sampling.

SUMMARY

The Magonigal Ranch property contains several thin, poorly defined, mineralized zones in amphibolite schist that locally contain minor amounts of copper, zinc, silver, and gold. The applicant proposed to explore two of the mineralized zones by sinking inclined shafts and diamond drilling. Estimated total cost of the project was $135,000 to $215,000. Only small concentrations of ore grade material are known to occur on the property and the geologic probability of making a significant discovery of minable ore is small. There is no geologic evidence to indicate larger or higher grade ore bodies below the existing prospect shafts or elsewhere on the property.

RECOMMENDATIONS

It is recommended that the application be denied on the basis that the geologic probability of discovering minable ore bodies on the property is too small to justify Government participation.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Magonigal Ranch is in sec. 6, T. 15 N., R. 6 E., MDM, Yuba County, California (Fig. 1), in the western foothills of the Sierra Nevada at an altitude of about 400 feet.

To reach the property, that is about 17 miles east of Marysville (the closest major town), drive east on State Highway 20 about 20 miles to Smartville, turn south on the Camp Beale Road for about one mile, then turn right (west) and drive about three miles to the Magonigal Ranch. The road is passable to ordinary passenger cars and the drive from Marysville requires about one hour.

All necessary services, supplies, equipment, and labor are available in Marysville. Water is available on the property. Assay services are available in Grass Valley (20 miles) or San Francisco (150 miles).

PROPERTY

History and Production

Copper ores were discovered in the nearby Spenceville and Smartville Districts in the 1860's and in 1884 the Spenceville Mine was the leading copper producing mine in California. Prospecting was active in the Magonigal Ranch area about 1903 and the prospect shafts on the property were probably sunk at that time. There are no records of production from the property although a small tonnage of copper ore was probably produced in about 1917-18 when the small mines in the district were active. One of the shafts, probably

No. 2 by the applicant's designation, was known as the Paul Copper Mine and was worked by S. F. Paul of Marysville in 1918, but no production is recorded. The applicant became interested in the property in 1967 but, other than sampling some of the dump material, has not done any work on the property.

Ownership

The Magonigal Ranch is owned by Mr. Thomas George Magonigal, Jr., Route 1, Box 416, Lincoln, California 95648. The applicant has a lease on the mineral rights to about 280 acres of land in sec. 6, T. 15 N., R. 6 E., MDM, described as follows:

NE¼ of sec. 6
NE¼ of SE¼ of sec. 6
SE¼ of NW¼ of sec. 6
NE¼ of SW¼ of sec. 6

The owner consented to sign a Lien and Subordination Agreements but had not done so as of the date of the examination.

Financial Eligibility

The applicant furnished copies of letters to two banks requesting loans for the proposed work and also copies of letters from the banks denying the loans. The applicant proposed to furnish his share of the exploration costs by use of equipment owned by him, labor, and in cash.

Development

The property is developed by three vertical shafts of unknown, but apparently shallow, depth. These shafts are not accessible for examination as two are filled with water to within a few feet of the surface and the third is filled with old barbed wire and trash. The small size of the waste dumps indicates that the underground workings from these shafts are limited

in extent. There are no surface facilities, buildings, or equipment of any kind. The applicant states that he has a lease on an old gravity and flotation mill of about 200 tons-per-day capacity located at Browns Valley, about 12 miles from the property. This mill was not examined but is reported to be in operating condition.

GEOLOGY

Geologic Setting

The Magonigal Ranch is in an area of low rolling topography, grass covered with sparse brush and oak trees on the hills. Most of the surface is covered by soil and outcrops are sparse. The prospect shafts expose amphibolite schist of Jurassic-Triassic age. These rocks were derived from volcanic rocks and are within a shear zone that is from one to three miles in width and strikes northwest. Schistosity is well developed, strikes N. 25° to 35° W. and is vertical. Thin veins, or veinlets, of sulfide-rich material occur in the schist and have apparently been prospected by the three shafts.

Ore Deposits

The copper-, zinc-, gold-, and silver-bearing material that has been prospected, or mined, on the property consists of fine-grained chalcopyrite and sphalerite in a gangue of pyrite, quartz, and calcite. Although there are no mineralized exposures accessible for study, the fragments of vein material present on the dumps indicate that the veins are from a few inches to perhaps several feet in thickness, strike and dip parallel to the schistosity; and the ore shoots are pod-like or lenticular in shape. No information is available as to the tonnage or grade of the ore shoots prospected by the old workings. There does not appear to be any linear extent of the mineralized

material, along the strike of the veins, away from the immediate vicinity of the shafts.

Sampling

Other than for a few hand specimens picked from the dump material, obtained for a study of the ore minerals, no samples were taken during the field examination. There were no mineralized exposures accessible for sampling or study. Assays reported by the applicant were from material similarly picked from the dumps and have little or no significance.

Ore Reserves

The applicant infers the presence of many hundreds of thousands of tons of copper ore on the property but this estimate is not based on factual information. The applicant has never been in the mine workings; has not sampled any of the mineralized material in place; has no record of past production; has no maps or reports showing or describing the workings or deposit; and has made no effort to make any of the workings accessible or done any surface prospecting along the strike of the veins.

EXPLORATION

Applicant's Proposal

The applicant proposed to explore the veins, in the vicinity of the No. 1 and No. 2 prospect shafts, by driving 1,000 feet of inclined shafts at an estimated total cost of from $135,000 to $215,000. The method and amount of exploration planned was vague and poorly planned. Justification for any type of exploration at the present time is totally lacking. The applicant is not considered to be competent to plan or supervise an adequate prospecting, exploration, or development project.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OME-6738
(Copper, Silver, Gold)

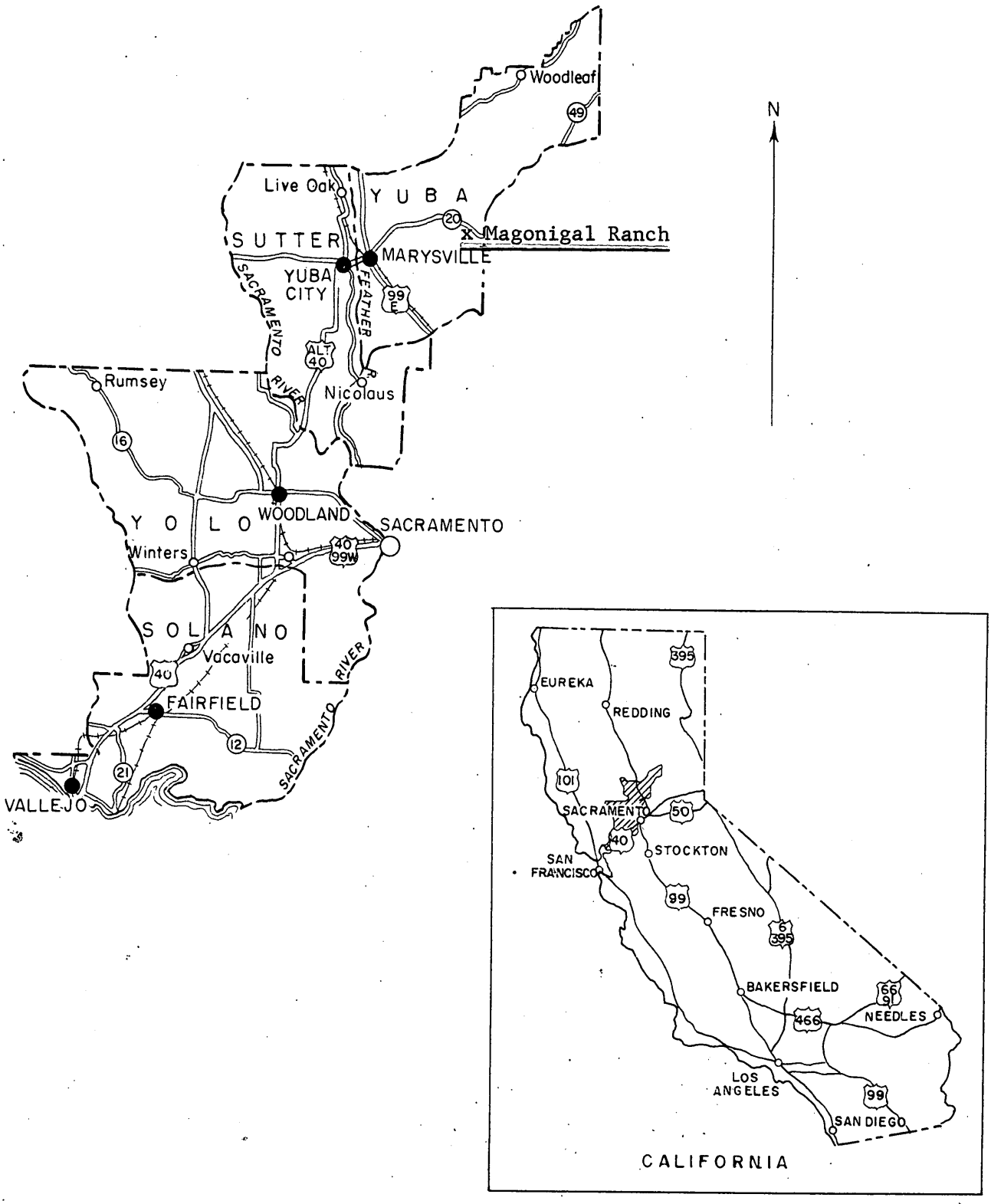


Figure 1. INDEX MAP OF YUBA, SUTTER, YOLO, AND SOLANO COUNTIES, CALIFORNIA

0 20 40 60 Miles

Dept of Interior Letter O.M.E 6738
Geological Survey.

Gentlemen: In answer to your letter of July 10-68.

We submit here a prospective evaluation of the potential deposit of Shaft 1 Exploration and its probable value, above the planned exploration tunnel. Mineral values below the tunnel floor can be exceedingly larger and of much more value as indications are that minerals go to depth in this area. One mine within 5 miles has a bottom of 2700 ft. The Dairy Mine near Lincoln is 1700 ft depth.

We include a revised proposal of costs, which are not any cheaper. The miner wage scale in this area as of July 1st is $4.87½ per hr plus 3% Health & Welfare. The insurance companies for small underground operations with few men employed want 32.00 per C dollars of payroll. A minimum cost of 5.50 per hr for a miner. Other skilled crafts will run to 6.50 per hr. No other miners are available but the local [redacted] miners.

The government will have to raise their sites regarding cost. Also the metal prices will have to

be based on the new relative costs of underground mining.

The only revised cost we have arrived at is a smaller bore, of excavation. In relation to the modern mining equipment, smaller bores are not much cheaper, especially in solid hard rock conditions. We cannot excavate economically a bore of less than 6 x 8, for clearance of the smallest mucking machine and for working room of machinery in width. The advance per blast in such small bores in solid rock is minimised in relation to its bore size. There is very little advantage in cost. We submit a cost reduction of 20% from our submitted costs.

We submit a spectograph copy along with our revised cost breakdown. Our attempt for subcontract bids have been above our costs. The zinc content is quite high and germanium and indium are present. The lease is being revised to make provisions of right-away and easements to the working areas and roads.

O M E 6738

We will send you our lease and other unfinished papers as soon as they are ready. We have a 400,000.00 150 Ton flotation plant electrified with all facilities near by. We are going ahead with this program wether we get exploration help, or not. But we need exploration assistance. The ore values which we have evidence of are quite high. We hope by exploration to reveal to us the quantity, depth and continuity of the minerals. In the spectograph we have evidence of cadmium, zinc and germanium and indium. In a concentrate these metals will come in probable quantities of probable value.

We feel quite assured that exploration must be done at both vein sites for some distance at least in relation to the money you will lend in assistance. We feel certain the values will show up. And our loan repayment are exceptionally good because of our advantage of a fully equiped flotation plant for immediately marketing our ores and concentrates. The copper ores mined in the past has been up to 27%. The sample of ores on the dumps have showed a dense thorough chalcopyrite ore of up to 11% in our assays, plus other values.

Yours Truly

A. J. Cheff

O.M.E-#6738

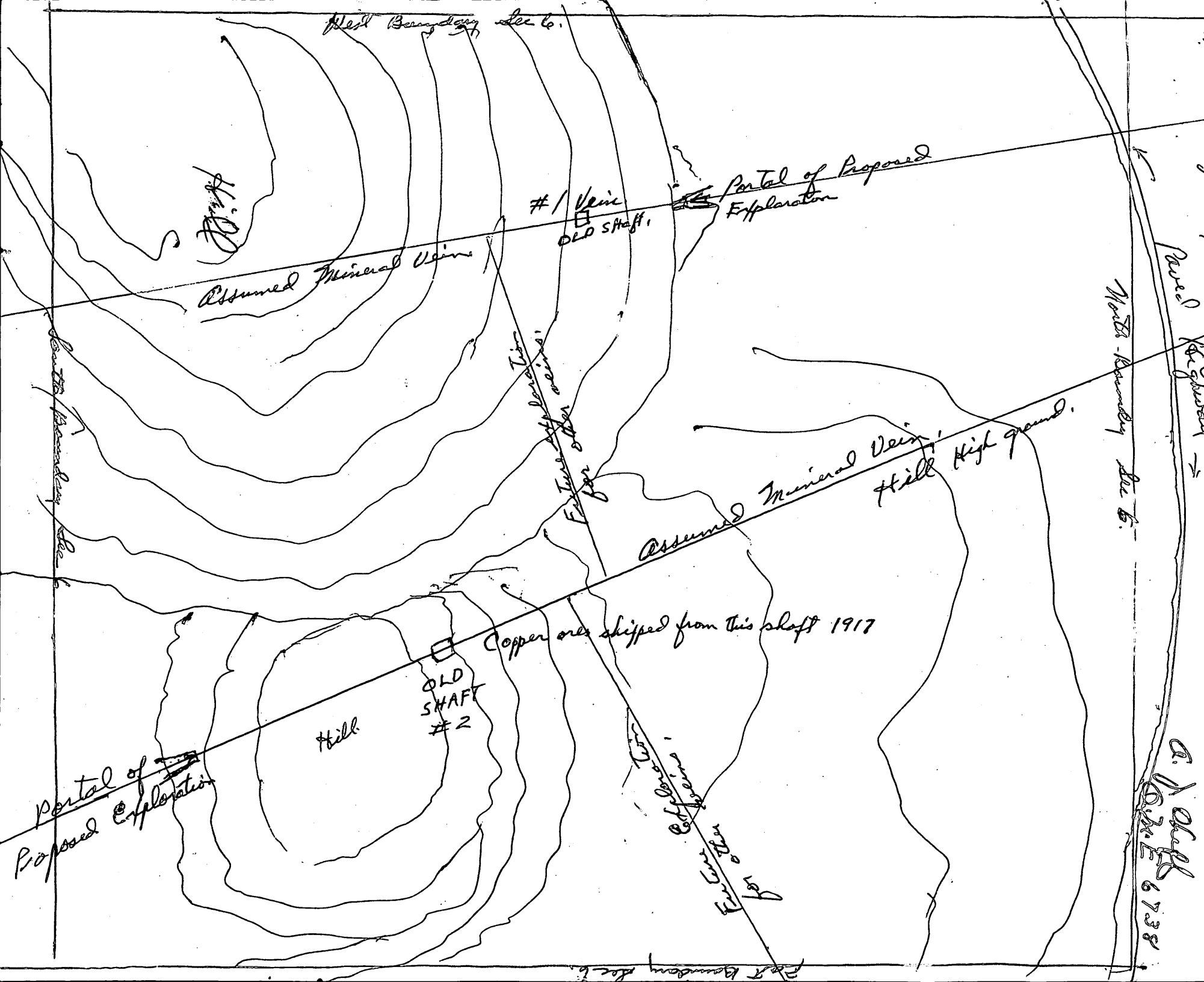
Our New Address is

P.O Box 2084

Marysville Calif.

Surface Rights of Sec 6 owned by Juanita Cattle Co and State of California. Same Ownership.

Mineral Rights by J. H. Hagerman, Parcel Hagerman →



G. A. Shaff
Dec. 6 1938

O.M.E. 6738

Item 1A Alternate Plan of Exploration by incline Tunnel at Shaft 1. Estimate of Costs for 10×11 incline Tunnel on 10 or 11% down grade for distance of 1000 Li ft. as per drawing submitted. Using mining method of rubber rolling equipment instead of mine rail equipment.

Item 1A. 2000 Li feet of roadway to build and repair and improved and ballast with mine dump rock.

48 hours of dozer & grading work at 20.00 per hour =	960.00
48 hours of loader ~~attachment~~ machine at 15.00/hr =	720.00
48 hours of dump truck work at 12.50 per hr. =	600.00
48 hours supervision at 4.00 hr. =	192.00
Construction of cattle guard complete. = L.S.	500.00
Work cost.	2,972.00
Employers liability and employees comp. ins. plus payroll and sales taxes on the above work at 10% =	297.20
Road work. Total cost of improvement =	3,269.20

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 19 1968

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GJ	120 M
JEJ	~~170~~
EP	120 P

O.M.E 6738

Item 2.A. Estimate of Cost of construction of Operating Area at Tunnel Portal and construction of 100 Lin ft Cut x 25 ft depth at Portal Orifice for begining of Incline Tunnel 1000 ft long. We plan this cut excavation to enable access on the vein structure and a facility for operation, and tunnel excavation for exploration of ledge and values thereof, and for a dump area. For this 100 ft of open cut work we estimate:

96 hours of D8 Dozer with ripper at 24.00 hr. =	2,304.00
96 hours of 5 yd rock loader at 24.00 hr. =	2,304.00
96 hrs of tandem dump truck 10 Ton Cap at 14.00 =	1,344.00
96 hrs of tandem dump truck 10 Ton Cap at 14.00 =	1,344.00
96 hrs of 600 cu ft Compressor 8.00 hr. =	768.00
96 hrs track drill and accessories at 8.00 hr. =	768.00
4 Miners and 1 mechanic at 4.00 hr. = 20.00 hr. 96 hr. =	1920.00
Fuel & Power & Service = 96 hrs at 5.00 hr =	480.00
	11,232.00
Employer liability & employer compensation plus pay roll and sales taxes for above work at 10% =	1123.20
For portal cut. Total cost =	12,355.20

OME 6738

Item 3 A. Estimate of Cost of excavating and Construction of 1000 lineal feet of exploration tunnel on 10-11% incline using rubber tired equipment. Estimate basis on equipment cost on rental-purchase and A.E.D. Rental Rates.

For exploration by incline tunnel for 1000 Li ft at Shaft #1 site. On basis of 8 hour shifts advancing 5 lineal feet per shift. = 200 man days for complete construction of alternate plan for exploration.

Total Daily Labor force equals. Daily Labor cost

4 miners at 4.00 per hr. for 8 hrs = 32.00 per day =	128.00
1 Mechanic - Compressor Shop at 4.00 per hr. = per day	32.00
2 muckers Tunnel chucktenders at 3.50 per hr. = per day	56.00
1 Muncker Operator & Loader Operator at 4.50 hr = per day	36.00
1 Truck Driver & Service man at 4.00 hr = per day	32.00
1 Mine Foreman at 5.00 per hr. = pay day =	40.00
Total Daily labor Cost	324.00

1000 Li ft advance at 5 ft per day = 200 man days of tunnel ~~Construction~~ = 200 x 324.00 = Labor Cost 64800.00

Cost of Labor employee compensation & liability plus pay roll and F.C.A.B etc. = 10% of 64800.00 = 6480.00

Total Labor cost = 71,280.00

OME 6738

Item 4 A. Estimate of equipment exploration cost, for 1000 lineal of alternate adit Tunnel Construction. Equipment on bare rental basis, 20 Work days per month after deduction of Saturdays, Sundays, Holidays. = 10 months operation schedule.

10 month Rental of Tunnel Loader at 600.00 per mo. =	6000.00
10 months Rental of Tunnel Jumbo + 4 drills at 500.00 mo =	5000.00
10 months Rental of 900 cu ft Compressor at 900.00 per mo =	9000.00
10 month Rental of 75 K.W. Light + Power Plant at 500.00 =	5000.00
10 Month Rental of Welding Machine at 100.00 mo =	1000.00
10 Month Rental of Ventilation Unit at 150.00 mo. =	1500.00
10 Month Rental of Tunnel Dump Truck at 200.00 mo =	2000.00
10 Month Rental of Tunnel Dump Truck at 200.00 mo =	2000.00
10 Month Rental of Service Truck at 150.00 =	1500.00
10 Month Rental of Pickup Truck at 80.00 mo =	800.00
Total Equipment Cost.	33,800.00

For Alternate Tunnel Plan of Exploration Page 6738

Item 5.A. Cost of materials, supplies, repairs, services.

Explosives Cost = 8 Tons of excavation per Lineal ft of exploration tunnel at 4 lbs of dynamite 40% per Ton = 32 lbs per foot = 32000 lbs of explosive at 3¢ per lb. or 30.00 per C = 9,600.00

Electric Primers = 32 primers per 5 ft round at 30¢ each = 9.60 per round 200 rounds at 9.60 = - - 1,920.00

Connecting Wires explosives assessories = - -- 250.00

Carbide Rock Drill bits at 14.00 ea = 1½ bit average use per round = 300 bits at 14.00 ea = 4,200.00

Tunnel Rock Drill Rods, at average cost each at 10.00 Loosage, breakage and wear = 2 rods per round = 20.00 per round = 200 rounds × 20.00 = 4,000.00

Tunnel & mine supports = 200 sets at 20.00 per set = 4000.00

Daily use of fuels for equipment outlined:-

= 100 gals diesel at 16¢ per gal = 16.00 × 200 day = 3200.00

= 50 gals gasolene at 30¢ gal = 15.00 × 200 = 3000.00

= oils & greases. = 8 gals per day 1.00 gal 8.00 × 200 = 1600.00

Equipment & drill repairs, services = 20.00 day × 200 = 4000.00

Other misc material, supplies freight etc = 5000.00

40,770.00

Sales Tax 4% = 1,630.80

Total expenses = 42,400.80

OME 6738

Item 6A. Cost Summary for Exploration Construction as planned

Sheet 1A. Access and Road Excavation cost = 3,269.20

Sheet 2A. Cost of 100 ft Portal cut and plant site and dump site etc. = 12,355.20

Sheet 3A Cost of 1000 ft of Labor. = 71,280.00

Sheet 4A Cost of Equipment Rentals = 33,800.00

Sheet 5A Cost of Equipment Repairs, Maintenance Materials + Supplies, Power, Freight etc = 42,400.00

Total Exploration Cost 163,104.40

Signed C. J. Cleff.

For Shaft 1. Exploration we should block-out a minimum of 60,000 Tons of high grade ore having a value of over 60.00 per Ton = 3,600,000.00 and should block out 50,000 Tons of lower grade ore having a value of 30.00 per Ton = 1,500,000.00

5,100,000.00

Signed C. J. Cleff.

Summary O.M.E 6738

Breakdown of total Exploration Cost for 1000 ft of 10x14 Exploration Tunnel on 11% incline and surface excavation and plant setup. = 163,104.40

Reduction of Bore to 6x8 = 20% less cost per lineal foot = Total Cost of Revised Exploration = 130,484.00

For 50% exploration assistance = 65,242.00

Please let us know.

Yours Truly

A. J. Scheff

For Shaft #1 and Shaft #2.

At depth we think we have 500,000 tons of high grade copper ore having an average value of 60.00 per Ton plus additional lower grade tonnage = 30,000,000.00

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/17/68	Peterson	120
9/17/68	Kerberson	120
		110
		220
		±20M

SEP 17 1968

AIRMAIL

Mr. Alphie J. Cheff
P. O. Box 1062
West Sacramento, California 95691

Re: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

Dear Mr. Cheff:

This will acknowledge your recent letter concerning the subject application.

Applications are usually considered by the OME Field Officer in the order which they are received from the Washington office. As Mr. Stager is responsible for making OME field examinations in California and Nevada, there is necessarily some delay between the time an Applicant is notified his application is being referred to the field, and the time an on-site examination can be scheduled. In this connection, Mr. Stager will contact you shortly and make arrangements for a visit to your property.

Sincerely yours,

FRANK E. JOHNSON (glc)

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region II w/copy of incoming ltr.
Mr. Peterson

ECPeterson/bsl 9/17/68

A. J. Cheff.
CHEFF CONSTRUCTION CO.
GENERAL CONTRACTORS
P O Box 2084 Marysville Calif.

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bsf | 120 m
JEJ | 16
EP | 120 P

Mr Frank Johnson
Office of Mineral Exploration
Dear Sir:

OME-6738

Since the letter I received from you stating that my application had been sent to the regional office at Menlo Park for further consideration since then I have not receive any responce from Mr Stagers' office.

Presumably he wishes to drop the matter. I have sent him a copy of the lease along with map and property rights and mineral rights and boundarys.

On your letter of July 10-68 to me you state: "In other words, does the deposit warrent the expense required to explore it." Regarding the potential of this area which is known as the Sierra Foothill Copper Belt. It runs from San Bernadino to Redding along the lower foothills. They are 'in any area' perpendicular veins running

P. O. Box 845

TELEPHONE 2542

CHEFF CONSTRUCTION CO.
GENERAL CONTRACTORS

14TH AND JEFFERSON

CORVALLIS, OREGON

for miles across the terrain. How they run in depth ~~is~~ never been explored very much. They contain high grade ore values and possibly run from 3 to 11 ft thick. They contain copper, zinc, lead, cadmium, and germanium. The country must be explored to retain a record of mineable minerals. Discovery of adequate reserves is vitally necessary and their potential. And further along these foothills these minerals are being buried with dams and reservoirs because these ~~so~~ mineral localities are not known before hand. These minerals must be found to prevent their burial. The cost of exploration is not prohibitive to retain adequate mineral resource knowledge, ahead of civil construction so the planning of civil construction will not destroy mineral potential. The world is adequately endowed with sources of copper other minerals but not the United States. Please see about my application.

Yours truly A. J. Cheff.

P. O. Box 2084 A. J. Cheff 3629 Highway 20
Marysville
CHEFF CONSTRUCTION CO. Tel. 743-4497
GENERAL CONTRACTORS
Mining Division Marysville Co.

Mr Harold K Stager.
Office of Mineral Exploration

Osme 6738
A J Cheff
Magonigal Ranch.

Our last letter from Frank F Johnson Wash D.C. he stated that the application was further sent to you for further consideration.

We herewith send you 2 more assays of this copper ore which were in my Seattle Files from a Seattle assayer. The lease and other papers shall be sent soon due to a redraft of lease.

Frank Johnsons letter of July 10-68-first paragraph - he thinks that probably exploration costs would not justify because of the overall potential values.

Evidence is that mineral goes to depth in this area. Considerable ore can be found I believe. The ore in evidence has high value.

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AUG 22 1968
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GO 120 P

A. J. Cheff
CHEFF CONSTRUCTION CO.
GENERAL CONTRACTORS
~~P. O. BOX 615~~ ~~VAL AND OREGON~~ ~~TELEPHONE 2842~~ ~~CORVALLIS, OREGON~~

OMe # 6738

Some strategic metals are in good evidence. They will show up more so in a selective flotation process, in the production phase, after exploration.

The zinc values are quite good but must be divided from the copper concentrate.

We have a New Mont Mining Corp flotation plant at Browns Valley Cal. in which we will treat this ore. This is the only mill available in the area for hundreds of miles away. This mill is the key to this exploration program. Some core drilling should be in this exploration program, for further evidence of sufficient ore volume, as well as values. We have some preliminary open cut work which I think should be first.

Yours Truly A. J. Cheff.

Magonigal Property
Ore #6738

Report No. 13983

December 4, 1967

Mr. A. J. Choff
2700 South 133rd Street
Seattle, Washington

Dear Sir:

We hereby certify that we have analyzed a sample of

ORE

submitted to us by you on November 27, 1967 and we have to report as follows:

Results:

Gold (Au) - - - - - - - - - - - - - - - - - - - 0.08 oz./ton

Silver (Ag) - - - - - - - - - - - - - - - - - - 1.48 oz./ton

Copper (Cu) - - - - - - - - - - - - - - - - - - 8.3 Percent

Respectfully submitted,

J. M. KNISELEY ENGINEERING CORPORATION

By:

ES/rp

Magonigal Property
6 M.E. 6738

Report No. 13215

June 12, 1967

Mr. A. J. Cheff
2709 South 120rd Street
Seattle, Washington

Dear Sir:

We hereby certify that we have analyzed a sample of

ORE

submitted to us by you on June 6, 1967 and we have to report as follows:

Results:

Gold (Au) - - - - - - - - - - - - - - - 0.02 oz./ton

Silver (Ag) - - - - - - - - - - - - - - 4.74 oz./ton

Copper (Cu) - - - - - - - - - - - - - - 7.79 percent

Respectfully submitted,

J. M. HUISELEY ENGINEERING CORPORATION

By:

EE/rp

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/22/68	Peterson	120
7/22/68	Kirkemo	120
		110
7/22	Cac	220
		120M

AIRMAIL

Memorandum

To: Field Officer, Region II

From: Chief, Office of Minerals Exploration

Subject: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

The subject application is referred to Region II for further consideration and recommendations. You have indicated that you can meet with the Applicant to discuss the proposal when in the vicinity on other OME business.

The application lacks much of the required information, however, previous experience with the Applicant indicates that further correspondence from this office would add little information to what has already been furnished.

The enclosed material submitted by the Applicant should be returned to this office with your recommendations. The lengthy letter was not furnished in duplicate, and we are unable to make copies of it on our machine.

Harold Kirkemo
for: Frank E. Johnson

Enclosures

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

ECPeterson/bsl 7/22/68

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/22/68	Peterson	120
7/22/68	Kirkemo	120
		110
		220
		120M

AIRMAIL

JUL 2 2 1968

Mr. Alphie J. Cheff
P. O. Box 2084
Marysville, California 95901

Re: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

Dear Mr. Cheff:

This will acknowledge your recent letter enclosing additional information relative to the subject application for financial assistance.

Although further information is required, we are, nevertheless, referring the application for further consideration to Mr. Harold K. Stager, Field Officer, Region II, U. S. Geological Survey, Bldg. 2, 345 Middlefield Road, Menlo Park, California 94025.

Mr. Stager will inform you on what further action he may take regarding your application.

Sincerely yours,

Harold Kirkemo (ejl)

for: Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geolgoy File
OME Docket
OME Reading File
Region II, 130 Mr. E.C. Peterson

ECPeterson/bsl 7/22/68

MME Form 7
(2/63)

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7/9/68	Kirbemor	120
		110
7/10	Cec	220
		120M

JUL 10 1968

AIRMAIL

Mr. Alphie J. Cheff
P. O. Box 1062
West Sacramento, California 95691

Re: OME-6738 (Copper-Silver-Gold)
Alphie J. Cheff
Magonigal Ranch
Yuba County, California

Dear Mr. Cheff:

One of the criteria we must consider in evaluating an application is the estimated cost of the exploration work in relation to the probable size and grade of the potential deposit. In other words, does the deposit warrant the expense required to explore it? Based on the limited information presented with your application, indications are that although eligible minerals may occur on your property their overall potential does not justify the cost of the ambitious program you have proposed. Unless a revised proposal can be developed where the project costs would be comparable to the value of the potential discovery, we would have no choice but to deny your application.

If a new proposal is submitted you will also have to furnish the following information, in addition to the evidence to support the proposal, to complete the application.

Furnish a copy of the lease under which you control the property. The lease mentioned as being enclosed with the application was not received. In addition, submit five copies of Lien and Subordination Agreements signed by L. G. Magonigal, the owner of the property. Six copies of the agreement forms (MME Form 52) are enclosed for your possible use.

Also required is a map or sketch that correctly shows the location of the proposed work and its relation to the target veins, claim boundaries, and to the old workings.

A revised cost estimate should be supplied if a new proposal is prepared. If any of the 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

Enclosures

cc: Director's Reading File
Economic Geology File
OME Docket
OME Reading File
Region II
ECPeterson

ECPeterson/bsl 7/9/68

July 1, 1968

Mr. Alphie J. Cheff
P. O. Box 1062
West Sacramento, California 95691

Subject: OME-6738

Dear Mr. Cheff:

Your application for exploration assistance, dated June 26, 1968, submitted to our office at Menlo Park, California, has been assigned Docket No. OME-6738.

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

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to Region II

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
EARL WARREN, GOVERNOR
FRANK B. DURKEE, DIRECTOR OF PUBLIC WORKS
A. D. EDMONSTON, STATE ENGINEER

WHEATLAND QUADRANGLE
CALIFORNIA
15 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods and by plane-table surveys 1946-47
Aerial photographs taken 1943 and 1947. Field check 1949

Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 2

Buildings omitted from Camp Beale Military Reservation

Dashed land lines indicate approximate locations

Unchecked elevations are shown in brown

1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

UTM GRID AND 1949 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:62 500

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 10 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty — 4 LANE | 6 LANE — Light-duty
Medium-duty — 4 LANE | 6 LANE — Unimproved dirt
U. S. Route — State Route

This area is also covered by 1:24000 scale maps of the Smartville, Browns Valley, Wheatland, and Camp Far West 7.5 minute quadrangles

WHEATLAND, CALIF.
N3900—W12115/15

1949

AMS 1762 III—SERIES V795