MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE

Contract No. _____ Docket No. 6877

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- [ ] Withdrawn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)
- [ ] 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

Application for Financial Assistance
in Minerals Exploration

OME 6877 - (Gold-Silver)

Dr Lloyd H Logan
Sour Dough and Sara Mine
Plumas County, California

Amended - November 1973

Update of Data (November 1973)

1) Financial Eligibility:

Current applications from two lending agencies have been submitted A loan for purpose of mineral exploration, with terms as outlined, would not be available in any amount.

2) Applicant's Rights in Land:

Unchanged.

3) Physical Description:

Unchanged.

4) Accessibility of property:

Unchanged.

5) Exploration work:

Work performed during 1973 is indicated on accompanying plat of the general area. It is felt that the tunnels of 1966 and 1972 failed to reveal any significant amount of ore because the areas explored were part of an ancient slide area and the vein was interrupted somewhere between the Old Tunnel "B" and the 1972 tunnel. Because of this conclusion, it was felt that there were two opportunites available for 1973; 1) to tunnel N 35°W in the Rush Lode claim which lies across Rush Creek and where the plumbago-type ore is exposed, this being the continuation of the Sour Dough claim presently under exploration, or; 2) drive a new tunnel, utilizing a portion of the 1972 tunnel, to intersect the Old Tunnel "B", previously described. It was elected to attempt to prove the findings as given in the original application by re-opening the old workings. An encounter was made with Old Tumnel "B" in the area indicated on the accompanying plat. It was decided to drop back in the 1972 tunnel to a point about 60 feet from the entrance where one would be in more solid ground and there make an approximate right angle turn on a bearing to, as nearly as possible, intersect the Old Tunnel "B" in the vicinity of the original point of discovery. At approximately 100 feet, small pockets of plumbago-type ore were encountered and then the Old Tunnel "B" was entered. It was hoped that the old tunnel could be re-entered but time, since 1947, and too light timbering, had taken its toll causing massive cave-ins. The 1973 tunnel was then continued for a short distance, crossing Old Tunnel "B" and there a full face of plumbago-type ore was encountered and followed to the hanging wall side where the vein dip of 85° was demonstrated. An approximate right angle turn was again made to drive across the vein to the foot wall side. To date, an approximate 15 feet of tunnel has been driven through the vein and without reaching the foot wall side. The estimated width of 18 feet, as mentioned in the original application, appears to be confirmed.

Because of the weather conditions, early snow and rain, access roads became impaasable, and operations were discontinued for the winter on November 16. For the purposes of an OME inspection and our winter time security it is

anticipated that access could be made in the winter during favorable breaks in the weather.

6) Experience:

Work during the 1973 period was performed under the direction of Eldon C. Hamrick a full time miner and also a mine owner. Myles Timmins has continued in his supervisory capacity. It is anticipated that if OME funds are available Mr Hamrick and an able crew will again be able to renew operations during the early Spring.

7) Estimate of costs:

There have been three areas of increased costs since the first estimate of 18 months ago -

1) Cost of timber. During the past year the local lumber mills have been made a part of national operations and have discontinued their local sales at the mills. The nearest location for a retail lumber yard is at Redding, California, over 50 miles away. This so far has produced only a moderate increase in cost because of stocks on hand, but it is anticipated that material and delivery cost will add at least 10% to the costs.

2) Labor. Because of the starting up of a number of mines in the area, competition for good miners has increased the cost of labor from $4./Hr to as high as $6./Hr. At the end of 1973 our pay rates varied from $4. to $5.50/Hr depending on the qualifications of the man. It is hoped that this scale can be maintained in 1974 and the revised estimate is based on this premise. The state-wide insurance rates for miners were also increased by the State Compensation Insurance Fund from $15.64 to $16.97/ $100. payroll.

3)Road maintainance work as originally estimated was far too low. It is felt that with current costs, an estimate of $2000. for this work is more reasonable.

7) Estimate of Costs - Revised (November 1973)

Item No.	Description	Quantity	Unit Cost	Amount
1	Drifting, crosscutting & raising	310 L.F.	69.57	21,566.70
2.	Timbering	310 L.F.	14.10	4,371.00
3.	Assaying for gold & silver	35 each	5.25	183.75
4.	Road Maintainance work			2,000.00
5.	Hired Engineering consultants	40 Hours	25.00	1,000.00
			Total	29,121.45

Cost Breakdown

1. Drifting, Crosscutting, Raising - 310 Feet

3 Miners @ $4.00 - 5.50 / Hr (3 ½ ' advance / shift)	31.00	/ L.F.
Taxes	4.24	"
Insurance	7.68	"
Powder, fuse and caps	6.25	"
Compressor rental	3.50	"
Compressor Supplies	3.15	"
Steel and bits	3.25	"
Repairs	2.75	"
Mine rail, ties, etc.	0.65	"
Air and water lines	0.60	"
Rental, mucking machine	5.00	"
Miscellaneous tools and supplies	1.50	"
Total	69.57	/ L.F.

2. Timbering

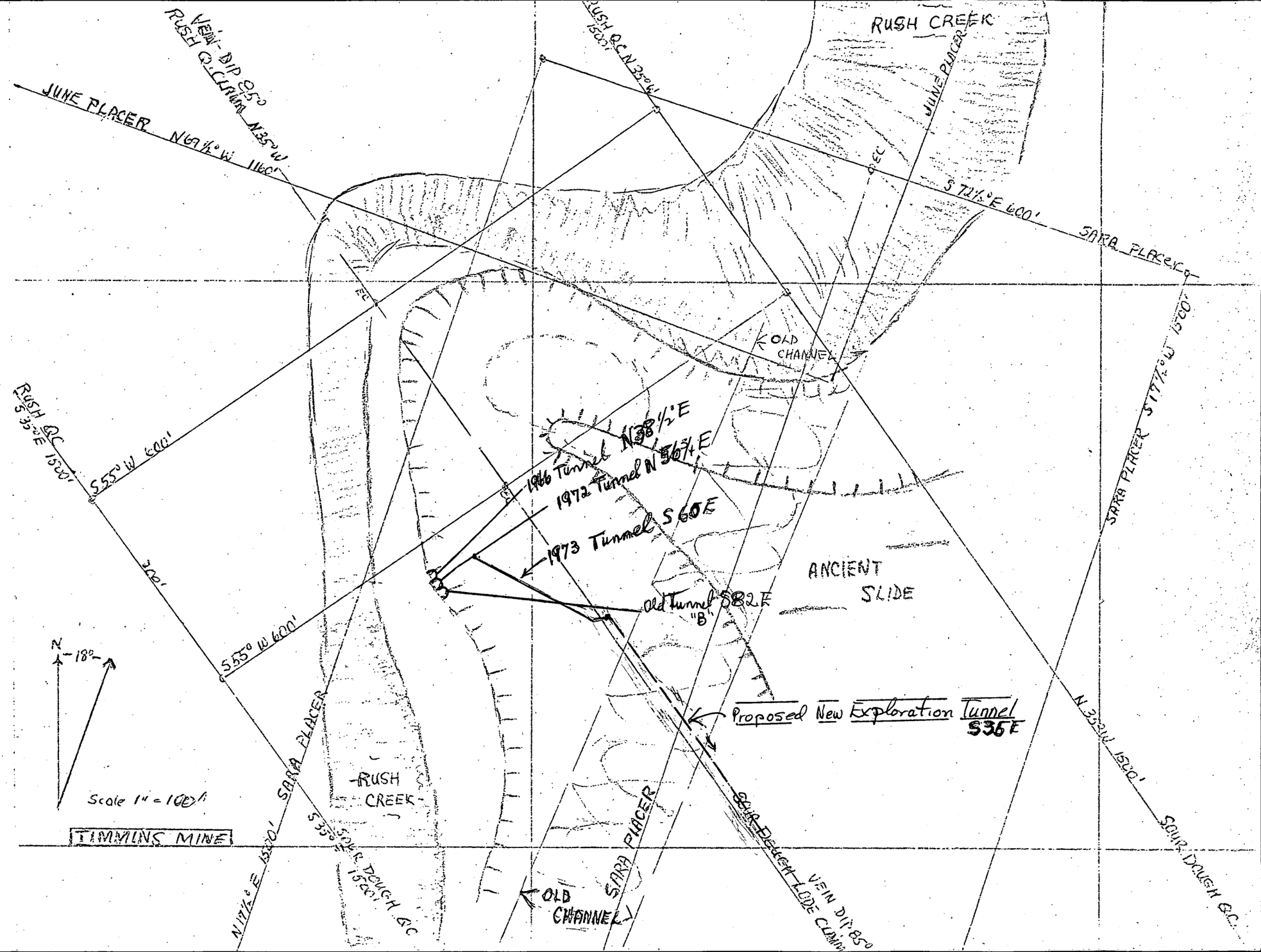
Material (70 fbm/LF), delivered	6.60	/ L.F.
Labor erect	7.50	"
Total	14.10	/ L.F.

3. Assaying

Cost for certified assay	4.50	each
Handling and freight	.75	"
Total	5.25	each

Respectfully submitted,

Lloyd H Logan


RUSH CREEK
JUNE PLACER
VEIN DIP 85°
RUSH QC CLAIM N35°W
JUNE PLACER N69½° W 1160'
RUSH QC N 35°W 1500'
S 72½° E 600'
SARA PLACER
QC
EC
OLD CHANNEL
RUSH QC S 35°E 1500'
S55° W 600'
300'
S55° W 600'
1966 Tunnel N38½°E
1972 Tunnel N 36½°E
1973 Tunnel S60E
Old Tunnel S82E "B"
ANCIENT SLIDE
SARA PLACER S17½° W 1500'
N 35°W 1500'
SOUR DOUGH QC
Proposed New Exploration Tunnel S36E
N
18°
Scale 1" = 100'
TIMMINS MINE
SARA PLACER
N17½° E 1500'
S 35° E SOUR DOUGH QC 1500'
RUSH CREEK
SARA PLACER
OLD CHANNEL
SOUR DOUGH LODE CLAIM
VEIN DIP 85°

United States Department of the Interior

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

July 10, 1972

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 12 1972

INITIALS	CODE

Memorandum

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

From: Field Officer
Region II

Subject: New Application (Gold-Silver)
Dr. Lloyd H. Logan
Sour Dough and Sara Mines
Plumas County, California

Enclosed is one copy of the subject application received in this office July 10, 1972. A duplicate copy is retained in our files.

The application appears to be complete. Although the purpose of the exploration proposed is not clear (vein, placer, or both) and the geologic relationships are incompletely described, the additional information required to assess the probability of a discovery may be obtainable during a field examination, if you request one.

R M Smith
for H. K. Stager

Enclosures

MME Form 40
(Revised Nov. 71)

Form approved
Budget Bureau No. 42-R1368

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 12 1972
INITIALS CODE

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

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

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

Dr. Lloyd H. Logan
450 Sutter Street, Suite 1831
San Francisco, California 94108

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6877

DATE RECEIVED: 7/12/72

REGION: II

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

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

STATE IN WHICH FIRM IS ORGANIZED:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Myles Timmins	Crescent Mills, Calif. 95934	40% Partner
Dr. Lloyd H. Logan	450 Sutter Street, Suite 1831, San Francisco, Calif. 94108	37% Partner
Charles Brown	Crescent Mills, Calif. 95934	19% Partner
Lowell E. Davis	239 N. 9th Street West, Salt Lake City, Utah 84116	2% Partner
Charles W. Meyers	119 Manzanita Ave., Herlong, California	2% Partner

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

ESTIMATED COST OF PROJECT: $ 25,863.75

PROPERTY NAME	LOCATION COUNTY	STATE
Sour Dough & Sara Mine	Plumas	California

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. II). 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 Department of the Interior, U.S. Geological Survey, Office of Minerals Exploration, 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.

July 5, 1972
DATED

Lloyd H. Logan
BY *(Signature)*

Partner
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

(submit on accompanying pages)

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 (1) *true copies of your letters to credit sources* which show date of loan request, amount and terms requested, and proposed use of loan funds and (2) *true copies of 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 signed by owner on MME Form 52. If the agreements cannot be obtained, state reasons and whether you can furnish a performance bond.

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.

(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) 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. State your reasons for expecting to find ore.

(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, address, and telephone number 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 on maps also the relation of the proposed work to any existing mine workings and to *claim 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 time and materials *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 price 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 and mobilization charge. 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, and materials.

(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).]

CHARLES G. de ST. MAURICE

CONSULTING ENGINEER

1961 Colusa Highway

YUBA CITY, CALIFORNIA 95991

SUPPLEMENTAL INFORMATION
FOR
OME APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION
BY
DR. LLOYD H. LOGAN

1. FINANCIAL ELIGIBILITY:

(a) Accompanying are copies of letters to two (2) banking institutions asking financial credit to conduct the exploration work and their replies declining such credit. The proposed exploration work would not be undertaken under current conditions and circumstances without OME financial assistance.

(b) The organization is a partnership and has no affiliated, parent or controlling company or organization.

The partnership consists of the following interests:

Myles Timmins, Crescent Mills, California 95934.....40%
Dr. Lloyd H. Logan, 450 Sutter Street, Suite 1831, San Francisco, California 94108.....37%
Charles Brown, Crescent Mills, California 95934.....19%
Lowell E. Davis, 239 N. 9th Street West, Salt Lake City, Utah 84116..... 2%
Charles W. Meyers, 119 Manzanita Ave., Herlong, California..... 2%

(c) The non-federal share of the cost of the exploration work will be contributed by Dr. Lloyd H. Logan.

2. APPLICANT'S RIGHTS TO LANDS:

(a) The land and mineral rights are held as unpatented mineral claims by Myles Timmins by rights of location and transfer. There are no liens, mortgages or other encumberances on the land.

(b) The unpatented mineral claims are located in Sections 24 and 25, T26N, R8E, MDM, being as shown below and recorded in the Plumas County records at Quincy, California:

RIGHT OF LOCATION

Claim Name	Locator	Date Recorded	Book	Vol. No.	Page
Sara Placer	Myles Timmins	7/26/45	Placer	19	307
Sour Dough Lode	Myles Timmins	7/7/54	Quartz	28	65
Rush Lode	Golden State Mining Co. Myles Timmins	6/6/66	Quartz	42	567
Rush No. 1 Lode	Golden State Mining Co.	7/5/66	Quartz	42	606
Sour Dough No. 1 Lode	Golden State Mining Co. Myles Timmins	9/7/66	Quartz	42	744
June Placer	Charles G. de St. Maurice Myles Timmins Lowell E. Davis Howard J. Adams	6/6/66	Placer	27	580

RIGHT OF TRANSFER

Agreement (unrecorded) dated June 4, 1966, wherein Golden State Mining Company, Inc. acquired 20% ownership in the unpatented Sour Dough Lode and Sara Placer mineral claims.

Quitclaim Deed dated 29 August 1969 recorded September 10, 1969 in Volume 189, Page 574, Official Records of Plumas County, California, wherein Golden State Mining Company, Inc. transferred to Myles Timmins all of its interest in the unpatented Rush Lode, Rush Lode No. 1, Sour Dough Lode No. 1 and June Placer mineral claims.

Grant Deed dated 17 April 1972 recorded April 20, 1972 in Volume 211, Page 272, Official Records of Plumas County, California, wherein Golden State Mining Company, Inc. transferred to Myles Timmins all of its interest in the unpatented Sara Placer and Sour Dough Lode mineral claims.

3. PHYSICAL DESCRIPTION:

(a) Accompanying are maps indicating the location of the claims, past development and mining, proposed exploration work and location of samplings and assays.

(b) The writer has no interest in the operations or in the mine.

(c),(d),(e),(f) Following is a statement by Myles Timmins regarding his past operation of the property commencing during 1944:

"Years ago I learned from old time miners that the first placer mining of Rush Creek yielded vast quantities of gold, but as the mining continued upstream the placer values stopped at a location where a massive slide had covered the original channel, the channel realigned around the slide carried no values. (see accompanying map for location of slide)

"During 1944 I drifted (see Tunnel A on map) into the slide to mine the rim or bench gravels of the original channel and follow these on into the old channel.

"During the period 1944 to 1948 I found these gravels, made a good living mining them, and continued driving on for the old channel until I encountered a shear zone, slickenside dipping at about 15° that cut-off the gravel to a feather edge.

"During 1947, I abandoned these workings and at a location around the point of the slide and about 400 feet downstream I drove a tunnel (Tunnel B) at right angles to the creek exploring for the displaced gravel that I had mined in the other higher tunnel.

150'?

"I raised at each 50-foot interval looking for the gravel and in each raise encountered the shear zone. At 250 feet I encountered a Plumbago ledge, known as the Tightner formation, on the hanging-wall of a quartz vein. I had encountered the vein at a small angle, then drove along the hanging wall side of the vein for 30 feet where I drove a raise up in the ore for 16 feet, where I encountered the shear zone again on top of the ore. The vein developed much water, perhaps 50 gallons per minute.

"From a point 15 feet back from the face, I drove a drift crossing the vein to the foot-wall side. I found the vein to be 18 feet wide, dipping 85° southwest and consisting of massive quartz associated with mineralized schist; the foot-wall being granodiorite and the hanging-wall metallic schist.

"I had stockpiled about 100 tone of ore on the dump that I planned to haul in for a mill-run test, but this pile washed away during the winter flood of 1948-49 and I do not have an assayed value of the ore."

During 1966, Golden State Mining Co., Inc. drove the "1966 Tunnel" (see map) exploring for the Timmins Vein; at 90 feet the Plumbago rock was encountered and operations ceased for the winter. The drift was extended about 20 feet by Myles Timmins during the following year and he is of the opinion that the hanging-wall of the vein was just reached in the floor of the drift.

ASSAYS: (Copies accompanying-locations on map)

Sample No.	Location	Sampled By
5266	1966 Tunnel 75' from portal	Howard J. Adams Myles Timmins
5407	Face 1966 Tunnel	Howard J. Adams Myles Timmins
5717	Timmins Workings	Howard J. Adams Myles Timmins

Sample No.	Location	Sampled By
5404	Old Timmins Workings	Howard J. Adams Myles Timmins
5405	Old Timmins Workings	Howard J. Adams Myles Timmins
5406	Old Timmins Workings	Howard J. Adams Myles Timmins

(g) Accompanying is a copy of part of the Geologic Map of California, Westwood Sheet, with the location of the property indicated, which is in the Paleozoic Marine near the contact with Paleozoic Metavolcanic rocks.

4. ACCESSIBILITY OF PROPERTY:

(a) To reach the property, go southerly from Greenville about 3 miles to Round Valley Reservoir, thence northwesterly via Forest Service Road 26N17 about 3 1/2 miles to Long Valley, thence southwesterly via Long Valley Road about 4 1/2 miles to Rush Creek, thence along the bed of Rush Creek about 1/2 mile to the property.

(b) Trucks may reach the property via State Route 89 to Greenville then as in (a) above to the property. The railroad access is by the Western Pacific Railroad at Greenville.

5. EXPLORATION WORK:

(a) The exploration work consists of driving a 5'x7' drift, timbered as necessary, for about 135 feet to cross-cut the vein and on to its foot-wall, thence following along the foot-wall for about 125 feet to the old Rush Creek channel, and drive about 50 feet of exploratory raising on the vein. (See accompanying map.)

(b) Access roads will not have to be built, however maintenance work will have to be accomplished at intervals on the access road.

(c) The exploratory work has already commenced, but OME financial assistance will have to be obtained to permit the work to continue to completion. It is estimated for the drift to advance at the average rate of about 3 1/2 feet per shift, six shifts/week.

6. EXPERIENCE:

The work will be performed under the direction of Myles Timmins, who has been a miner and mine operator during his entire working life of about 50 years, assisted by three expert underground miners.

7. ESTIMATE OF COSTS:

Item No.	Description	Quantity	Unit Cost	Amount
1.	Drifting, crosscutting and raising	310 L.F.	$64.50	$19,995.00
2.	Timbering	310 L.F.	13.50	4,185.00
3.	Assaying for gold and silver	35 Each	5.25	183.75
4.	Road maintenance work			500.00
5.	Hired Engineering Consultants	40 Hours	25.00	1,000.00
			Total	$25,863.75

COST BREAKDOWN

1. Drifting, Crosscutting, Raising - 310 Feet

3 Miners @ $4.00/Hr (3 1/2' advance/shift)	$27.43/L.F.
Taxes	2.74/L.F.
Insurance	7.68/L.F.
Powder, fuse and caps	6.25/L.F.
Compressor Rental	3.50/L.F.
Compressor Supplies	3.15/L.F.
Steel and bits	3.25/L.F.
Repairs	2.75/L.F.
Mine rail, ties, etc.	0.65/L.F.
Air and water lines	0.60/L.F.
Rental, mucking machine	5.00/L.F.
Miscellaneous tools and supplies	1.50/L.F.
Total	$64.50/L.F.

2. Timbering

Material (70 fbm/L.F.), delivered	$ 6.00/L.F.
Labor erect	7.50/L.F.
Total	$13.50/L.F.

3. Assaying

Cost for certified assay	$ 4.50 Each
Handling and freight	0.75 Each
Total	$ 5.25 Each

Respectfully submitted,

Charles G. de St. Maurice

Charles G. de St. Maurice
Calif. Consulting Engineer #5, Land Surveyor #2061

LLOYD H. LOGAN, M.D.
450 SUTTER STREET - SUITE 1831
SAN FRANCISCO 8
YUKON-2-3500

June 2, 1972

Loan Officer
Wells Fargo Bank
7th Avenue and Clement Sts
San Francisco, California

Dear Sir:

With a group of partners, for whom I am authorized to negotiate a loan, I am engaged in exploration for gold in the Rush Creek area near the town of Greenville in Plumas County California.

We would require credit to the amount of $50,000. to aid with the present exploration, this would be the maximum on the present program.

As security we would offer a series of five unpatented mining claims, held in the names of the group, all claims being current, with the latest assessment work having been done and recorded. As to experience in this type of work, one member of the group has been mining all of his life and the others have had some similar experience. A qualified Mining Engineer has been engaged for consultant work.

We would propose to begin repayment of any loan with the beginning of production work, and then from a negotiated percentage of the gold produced. Until such time as production is commenced, we would offer a maximum of 5% on any funds borrowed.

A personal financial statement will be sent on request if your bank would be interested, also other appropriate papers, of partnership and claims.

Yours truly,

Lloyd H. Logan M.D.

Since 1852

WELLS FARGO BANK

NATIONAL ASSOCIATION

SEVENTH AND CLEMENT OFFICE
599 CLEMENT STREET
SAN FRANCISCO, CALIFORNIA 94118

June 9, 1972

Lloyd H. Logan, M.D.
450 Sutter Street Suite 1831
San Francisco, California 94108

Dear Doctor Logan:

We have received your request for an unsecured loan of $50,000.00 to be used for exploration assistance for your mining interests in Plumas County, California.

We could not grant an unsecured loan to you for this amount for this purpose.

Very truly yours,

M. J. Mendes, Jr.,
Assistant Vice President
& Manager

MJM/ed

LLOYD H. LOGAN, M.D.
450 SUTTER STREET - SUITE 1831
SAN FRANCISCO 8
UKON. 2-3500

June 14, 1972

Loan Officer
Bank of America
Ocean-Faxon Branch
San Francisco, California

Dear Sir:

With a group of partners, for whom I am authorized to negotiate a loan, I am engaged in exploration for gold in the Rush Creek area near the town of Greenville in Plumas County, California.

We would require credit to the amount of $50,000. to aid with the present exploration and this would be a maximum on the present program.

As security we would offer a series of five unpatented mining claims, held in the names of the group, all claims being current, with the latest assessment work having been done and recorded. As to experience in this type of work, one member of the group has been in this type of mining all of his life and the others have had some but lesser similar experience. A qualified Mining Engineer has been engaged for consultant work.

We would propose to begin repayment of any loan with the beginning of production work, and then from a negotiated percentage of the gold produced. Until such time as production is commenced, we would offer a maximum of 5% on any funds borrowed.

A personal financial statement will be sent on request if your bank would be interested, also other appropriate papers, of partnership and claims, as needed.

Yours truly,

BANK OF AMERICA

OCEAN-FAXON BRANCH

June 20, 1972

Lloyd H. Logan, M.D.
450 Sutter Street, Suite 1831
San Francisco, Calif. 94108

Dear Dr. Logan:

Thank you for your letter dated June 14 containing your request for a loan to be used in exploration for gold in the Rush Creek area of Plumas County, California; however, we are unable to make loans of this nature at the present time.

We do appreciate your application, and perhaps when this field is developed at some future date, you would like to reapply.

Sincerely,

E. Mahoney

Emmett Mahoney
Manager

cs
622-4311

STATE OF CALIFORNIA,
County of Plumas } ss.

On this 26th day of June in the year one thousand nine hundred and Seventy two before me, Anna Lee, a Notary Public in and for the said County of Plumas State of California, residing therein, duly commissioned and sworn, personally appeared Myles Simmons Charles W Brown Charles W. Meyers Lowell E. Davis

known to me to be the persons whose name are subscribed to the within instrument and acknowledged to me that they executed the same.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my official seal in the said County of Plumas the day and year in this certificate first above written.

Anna Lee

Notary Public in and for the said County of Plumas State of California.

My Commission Expires May 31, 1976

OFFICIAL SEAL
ANNA LEE
NOTARY PUBLIC-CALIFORNIA
PLUMAS COUNTY
My Commission Expires May 31, 1976

Box 589, Greenville, CA. 95947

Cowdery's Form No. 32—Acknowledgment—General.
(C. C. Sec. 1189) 75685

STATE OF CALIFORNIA,

City and County of San Francisco } ss:

On this 13th *day of* June *in the year one thousand nine hundred and* seventy-two *before me,* HAZEL MUNRO, *a Notary Public, State of California, duly commissioned and sworn, personally appeared* LLOYD H. LOGAN, M.D.

known to me to be the person whose name is *subscribed to the within instrument and acknowledged to me that he executed the same.*

IN WITNESS WHEREOF I have hereunto set my hand and affixed my official seal in the City *County of* San Francisco *the day and year in this certificate first above written.*

(Hazel Munro) Hazel Munro

Notary Public, State of California.

My Commission Expires September 13, 1975

FORM NO. 32—General Acknowledgment.
Printed on Southworth's Parchment Deed
100% Cotton Fiber.

LLOYD H. LOGAN, M.D.
450 SUTTER STREET - SUITE 1831
SAN FRANCISCO 8
YUKON 2-3500

June 12, 1972

To whom it may concern:

This is to authorize Lloyd H Logan to contact banks or other lending agencies in the name of the partnership as described below and to offer as collateral the below specified unpatented mining claims in Plumas County, California for the purpose of obtaining a mining loan for exploration purposes in an amount not to exceed ($50,000.00) fifty thousand dollars. In the event that money for this purpose is not available from the above mentioned banks or other lending agencies, Lloyd H Logan is further authorized to contact the Office of Minerals Exploration, U.S. Department of the Interior for aid not to exceed the above stated amount. His signature on the application will obligate the partnership and encumber the below detailed mining claims should any loan or loans be granted for the purpose mentioned.

The names of all of the partners, as of this date are - Myles Timmins, Crescent Mills, California 95934, Lowell E Davis, 239 N 9th St. West, Salt Lake City, Utah 84116, Charles W Brown, Crecent Mills, California 95934, Charles W Meyers, 119 Manzanita Avenue, Herlong, California, and Lloyd H Logan, 450 Sutter Street, Suite 1831, San Francisco, California 94108.

The unpatented mining claims are all current and are located generally in the Rush Creek area of Plumas County, nearest to the town of Greenville, California and are recorded as indicated, at the County Courthouse at Quincy, Plumas County, California:

a) June - Vol 27 Placer Pg 580
b) Sara - Vol 19 Placer Pg 307
c) Rush - Vol 42 Quartz Pg 567
d) Sour Dough - Vol 42 Quartz Pg 744
e) Rush Lode # 1 - Vol 42 Quartz Pg 606

Myles Timmins
Myles Timmins

Lloyd H Logan
Lloyd H Logan

Charles W. Brown
Charles W Brown

Lowell E Davis
Lowell E Davis

Charles W. Meyers
Charles W Meyers

GOLDEN STATE MINING COMPANY

A Nevada Corporation

1961 Colusa Highway

YUBA CITY, CALIFORNIA 95991

AGREEMENT

THIS AGREEMENT, made this 4 day of June, 1966, by and between Myles Timmins, P. O. Box 11, Cresent Mills, California First Party and Golden State Mining Company, Inc., 1961 Colusa Highway, Yuba City, California, Second Party;

WITNESSETH:

First Party does, subject to the following conditions, and provisions, hereby grant unto Second Party 20 percent ownership in those certain mining claims located in the South 1/2 of the South 1/2 of Section 24 and the North 1/2 of the North 1/2 of Section 25, all in T. 26 N., R. 8 E.,M. D. B & M., in the Rush Creek Mining District of Plumas County, California, and consisting of unpatented mining claims recorded in the Plumas County Records at Quincy, California, as follows:

Sour Dough Quartz or lode claim recorded July 7, 1954 in Volume 28, Quartz Locations at page 65, Myles Timmins locator.

Sara Placer claim, recorded in Volume 19, Placer Claims, at page 307, Myles Timmins locator. Located on July 25, 1945.

1.

The parties hereto shall develop jointly said mining properties, commencing during June 1966.

2.

Said development work shall consist of driving a tunnel on the East or left side of Rush Creek, in a Northerly direction for an estimated distance of 80 to 100 feet to intersect a quartz vein, thought to exist near the center of said Sour Dough quartz claim, thence continue driving said tunnel Easterly along said quartz vein, if found, to an intersection with a gravel channel, thought to exist, near the center of said Sara placer claim.

3.

Upon completion of said development work and if, in the opinion of the parties hereto, further development and or mining will be profitable, then they will agree to proceed with said further development and or mining and all costs for said further development and or mining, shall be borne by each party hereto, in proportation to each said party's ownership in said mining property.

GOLDEN STATE MINING COMPANY

A Nevada Corporation
1961 Colusa Highway
YUBA CITY, CALIFORNIA 95991

AGREEMENT JUNE -4 ,1966 CONTINUED

4.

If, in the event it becomes necessary, and in the best interests of both parties hereto, to locate and hold additional mining claims for said mining property, then said claims shall immediately be located and held jointly by both parties hereto, and each party hereto shall have equal ownership in all said new mining claims.

5.

If, in the opinion of the parties hereto, it is in the best interest of both parties hereto to sell part or all of said claims, then part or all of said claims shall be offered for sale at a value to be determined mutually by first party and second party hereto, or upon the disagreement of said value, then an appraiser shall be appointed by first party and a second appraiser appointed by second party and the two appraisers so appointed, appoint a third and their majority appraisal shall be final in the valuation matter.

This Agreement shall inure to and be binding upon the parties hereto, their heirs, executors, administrators, successors, and assigns.

Executed in triplicate.

Miles Timmins

Miles Timmins
First Party

GOLDEN STATE MINING COMPANY, INC.
Second Party

By: Charles G. de St. Maurice
Charles G. de St. Maurice, President

By: Howard J. Adams
Howard J. Adams, Vice-President

WITNESS:

Lowell Davis
Lowell Davis
Greenville, California

Mail Tax Statements to
Myles Timmins
Crescent Mills
California

574

Quitclaim Deed

This Indenture made the 29th day of August one thousand nine hundred and Sixty Nine

Between Charles G. de St. Maurice, Howard J. Adams and Golden State Mining Company Inc.
1961 Colusa Highway
Yuba City, California
the part~~ies~~ of the first part,

and

Myles Timmins
Crescent Mills, California
the part y of the second part,

Witnesseth: That the said part~~ies~~ of the first part, in consideration of the sum of ~~and Myles Timmins paying for all 1968-69 assessment work on said claims~~ one dollar lawful money of the United States of America, to ~~parties first~~ in hand paid by the part y of the second part, the receipt whereof is hereby acknowledged, do hereby release and forever QUITCLAIM unto the part y of the second part, and to his heirs and assigns, all ~~the~~ our interest in Quartz or Lode and Placer Claims ~~certain lot~~, ~~piece~~, ~~or parcel~~ ~~of land~~ situate in the Rush Rock Mining District and Section 25, T.26N, R8E, M.D.B.&M. County of Plumas, State of California, and bounded and described as follows, to-wit:

Rush Lode Claim No. 1 - Recorded July 5, 1966 in Vol. 42, Quartz Page 606
Rush Lode Claim - Recorded June 6, 1966 in Vol. 42 Quartz Page 567
Sour Dough No. 1 Lode Claim - Recorded Sept. 7, 1966 in Vol. 42 Quartz Page 744
Sane Placer Claim - Recorded June 6, 1966 in Vol. 27 Placer, Page 580

The above mining claims are unpatented mining claims recorded in Plumas County Records at Quincy, Calif.

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

To Have and to Hold the said ~~premises~~ claims, together with the appurtenances, unto the part y of the second part, and to his heirs and assigns forever.

In Witness Whereof the part~~ies~~ of the first part have executed this conveyance the day and year first above written.

Signed and Delivered in the Presence of

Myles Timmins

Golden State Mining Company, Inc.
By: Charles G. de St. Maurice, President
and
Charles G. de St. Maurice
and
Howard J. Adams
By: Charles G. de St. Maurice

Use Corporation as a corp. in setting

575

State of California } ss.
County of Yuba

On this 6th day of September in the year one thousand nine hundred and Fifty Nine, before me, Edward N. Carlton a Notary Public, State of California, duly commissioned and sworn, personally appeared Charles S. de St Maurice for Golden State Mining Co, and Howard Allens

known to me to be the person described in and whose name subscribed to the within instrument, and acknowledged to me that he executed the same.

In Witness Whereof I have hereunto set my hand and affixed my official seal in the State of Calif County of Yuba, the day and year in this certificate first above written.

Edward N. Carlton
Notary Public, State of California.
My commission expires 9/22/71

EDWARD N. CARLTON
NOTARY PUBLIC – CALIFORNIA
PRINCIPAL OFFICE IN
YUBA COUNTY

Quitclaim Deed

Dated 19

1457

INDEXED

RECORDED AT REQUEST OF
MYLES TIMMINS
SEPTEMBER 10, 1969
AT 30 MIN. PAST 10 A.M.
VOL. 189 PAGE 574
OFFICIAL RECORDS
PLUMAS CO. CAL. RECORDS

Stanley Grimwood
RECORDER

FEE 2.80

Plumas County

5156

RECORDED AT REQUEST OF Myles Timmons
April 20, 1972
AT 5 MIN. PAST 10
VOL 211 PAGE 272
Official Records
PLUMAS CO., CA. RECORDS

DOROTHY NEER MARLEY
RECORDER
FEE 3.00

272

INDEXED

COMPARED

RECORDING REQUESTED BY
Myles Timmins

AND WHEN RECORDED MAIL TO

Name: Myles Timmins
Address: P. O. Box 11
City & State: Crescent Mills, California 95934

Title Order No. _____ Escrow No. _____

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name: Myles Timmins
Address: P. O. Box 11
City & State: Crescent Mills, California 95934

AFFIX R.S. $ 3.30 IN THIS SPACE

DOCUMENTARY TRANSFER TAX $ _____

☑ COMPUTED ON FULL VALUE OF PROPERTY CONVEYED, OR

☐ COMPUTED ON FULL VALUE LESS LIENS & ENCUMBRANCES REMAINING THEREON AT TIME OF SALE.

TAX PAID

Myles Timmins

Signature of declarant or agent determining tax - firm name

Corporation Grant Deed

WESTERN TITLE FORM NO. 102

FOR VALUE RECEIVED, Three Thousand ($3,000.00) Dollars, lawful money of the United States, Golden State Mining Company, Inc., 1961 Colusa Highway, Yuba City, California

GRANTS to Myles Timmins, P. O. Box 11, Crescent Mills, California

all that real property situate in the Rush Creek Mining District

County of Plumas, State of California, described as follows:

All of that certain twenty (20) percent ownership in and to certain unpatented mining claims located in Sections 24 and 25 all in T26N, R8E, M.D.B.&M., as acquired by said Golden State Mining Company, Inc. by AGREEMENT dated 4 June 1966 by and between Myles Timmins and Golden State Mining Company, Inc., those said certain unpatented mining claims being recorded in the Plumas County Records at Quincy, California as follows:

Sourdough quartz or lode claim recorded July 7, 1954 in Volume 28, Quartz Locations at page 65, Myles Timmins locator.

Sara placer claim, recorded in Volume 19, Placer Claims at page 307, Myles Timmins locator. Located July 25, 1945.

IN WITNESS WHEREOF, said corporation has executed these presents by its officers thereunto duly authorized, this 17th day of April, 1972.

Golden State Mining Company, Inc.

By Charles G. de St. Maurice, President

By Mildred I. de St. Maurice, Secretary

STATE OF CALIFORNIA } ss.
County of Yuba

On April 17, 1972 before me, the undersigned, a Notary Public, in and for said State, personally appeared Charles G. deSt. Maurice and Mildred I. deSt. Maurice

known to me to be the President and the Secretary of the corporation that executed the within instrument, and also known to me to be the persons who executed it on behalf of such corporation, and acknowledged to me that such corporation executed the same, and further acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its Board of Directors.

Joann M. Kolar
Notary Public

Joann M. Kolar
Name (Type or Printed)

FOR NOTARY SEAL OR STAMP

OFFICIAL SEAL
JOANN M. KOLAR
NOTARY PUBLIC-CALIFORNIA
COUNTY OF YUBA
My Commission Expires July 15, 1975

MAIL TAX STATEMENTS AS DIRECTED ABOVE

Undivided

- Tc — Tertiary nonmarine
- Tl — Tertiary lake deposits
- Tertiary marine
- Tertiary intrusive igneous rocks: T_i^r — rhyolite, [illegible] basalt
- Tertiary volcanic and [illegible] T_v^a — andesite and basalt, T_v^p — pyroclastic rocks

MESOZOIC

CRETACEOUS

- K — Undivided Cretaceous marine
- Ku — Upper Cretaceous marine
- Lower Cretaceous marine

JURASSIC

- Jk — Knoxville formation
- Ju — Upper Jurassic marine
- Jml — Middle and/or Lower Jurassic marine

TRIASSIC

- TR — Triassic marine

KJf — Franciscan formation

- KJv — Franciscan volcanic and metavolcanic rocks
- gr — Mesozoic granitic rocks
- bi — Mesozoic basic intrusive rocks
- ub — Mesozoic ultrabasic intrusive rocks
- JTRv — Jura-Trias metavolcanic rocks

PALEOZOIC

UNDIVIDED

- ls — Pre-Cretaceous metamorphic rocks (ls = limestone or dolomite)
- ms — Pre-Cretaceous metasedimentary rocks
- P ls — Paleozoic marine (ls = limestone or dolomite

- mv — Pre-Cretaceous metavolcanic rocks
- gr.m — Pre-Cenozoic granitic and metamorphic rocks
- Pv — Paleozoic metavolcanic rocks

PERMIAN

- Pm — Permian marine
- Pmv — Permian metavolcanic rocks

CARBONIFEROUS

- C — Undivided Carboniferous marine
- CP — Pennsylvanian marine
- CM — Mississippian marine
- Cv — Carboniferous metavolcanic rocks

DEVONIAN

- D — Devonian marine
- Dv — Devonian metavolcanic rocks
- pDv — Undivided pre-Devonian and Devonian metavolcanic rocks

SILURIAN

- S — Silurian marine

ORDOVICIAN

- O — Ordovician marine

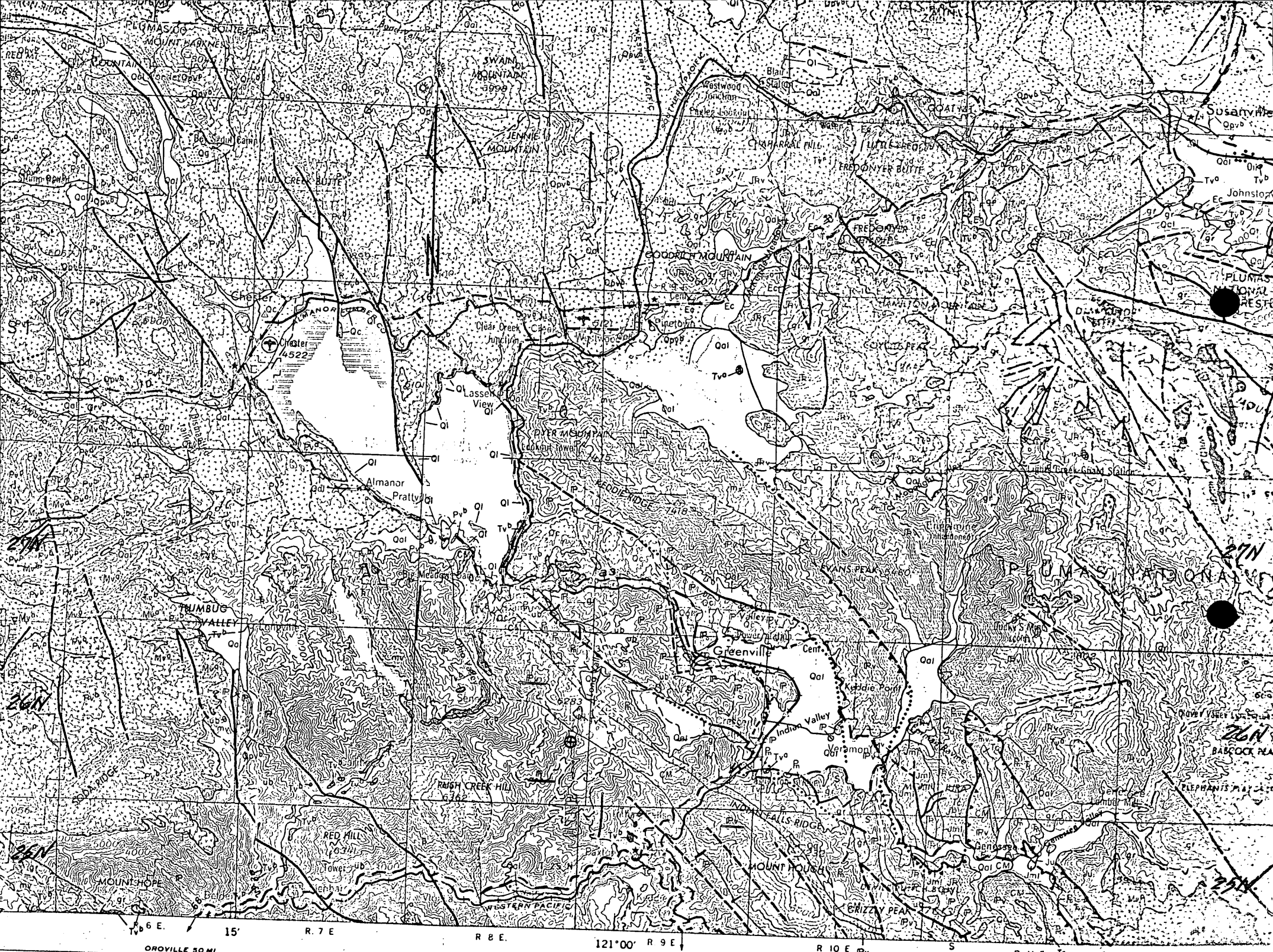
CAMBRIAN

- Є — Cambrian marine
- Є1 — Cambrian – Precambrian marine

PRECAMBRIAN

- pЄ — Undivided Precambrian metamorphic rocks pЄg = gneiss, pЄs = schist
- lpЄ — Later Precambrian sedimentary and metamorphic rocks
- epЄ — Earlier Precambrian metamorphic rocks
- pЄgr — Undivided Precambrian granitic rocks

HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET


PLUMAS CO
MOUNT HARKNESS
SWAIN MOUNTAIN
JENNIE MOUNTAIN
WILD CREEK BUTTE
Westwood Junction
Blair Station
CHAPARRAL HILL
FREDONYER BUTTE
FREDONYER
GOODRICH MOUNTAIN
HAMILTON MOUNTAIN
COYOTE PEAK
Susanville
Johnston
Chester
Chester 4522
ALMANOR
Clear Creek Junction
Lassen View
PYER MOUNTAIN
Lookout Tower
Almanor
Prattville
LEDDIE RIDGE
Little Creek Grain Station
EVANS PEAK
PLUMAS NATIONAL FOREST
TRUMBUG VALLEY
Greenville
Cent.
Kettle Point
Indian Valley
Veramon
Clover Valley
BABCOCK PEAK
ELEPHANTS BACK
RAISH CREEK HILL
6362
INDIAN FALLS RIDGE
RED HILL
MOUNT HOUGH
GRIZZLY PEAK
MOUNT HOPE
WESTERN PACIFIC
SOUTHERN PACIFIC
27N
26N
25N
R. 6 E.
15'
R. 7 E
R 8 E.
121°00'
R 9 E
R 10 E
S
45'
R 11 E
OROVILLE 50 MI.
QUINCY 6 MI.

FORM A-8

REPORT OF ASSAY

J. F. HARRIGAN

ANALYTICAL CHEMIST AND ASSAYER

541 HARTNELL AVENUE

REDDING, CALIFORNIA

Golden State Mining Co.,
Yuba City, Calif.

DEPOSITED BY Mr. C. G. de St. Maurice
June 14, 1967

SAMPLE OF

Labty. No.	Mark	GOLD, per ton of 2,000 lbs.		SILVER, per ton of 2,000 lbs.		Percentages
		Troy Ounces	Val. @ $35 oz.	Troy Ounces	Val. @	
5717	Grab Sample. Vein in old Timmons Drift	00.02	$00.70	None found		

J. F. HARRIGAN

J. F. Harrigan

FORM A-8

REPORT OF ASSAY

J. F. HARRIGAN

ANALYTICAL CHEMIST AND ASSAYER

541 HARTNELL AVENUE

REDDING, CALIFORNIA

DEPOSITED BY C. G. de St.Maurice
Oct. 27, 1966

SAMPLE OF

Labty. No.	Mark	GOLD, per ton of 2,000 lbs.		SILVER, per ton of 2,000 lbs.		Percentages
		Troy Ounces	Val. @ $35 oz.	Troy Ounces	Val. @	
5404	Sour Dough Mine. Spl.1 From stope of old W. drift. Vein 18" 20' from portal	00.02	$00.70	----------	----------	
5405	Spl.2 Old W. drift. 50' from portal. 24" Vein.	.01	.35	----------	----------	
5406	Spl.3 From hanging wall of old W. drift. 50' from portal.	.05	1.75	----------	----------	

J. F. HARRIGAN

J. F. Harrigan

FORM A-8

REPORT OF ASSAY

J. F. HARRIGAN

ANALYTICAL CHEMIST AND ASSAYER

541 HARTNELL AVENUE

REDDING, CALIFORNIA

DEPOSITED BY Mr. C.G. de St.Maurice.
Oct. 27, 1966

SAMPLE OF

Labty. No.	Mark	GOLD, per ton of 2,000 lbs.		SILVER, per ton of 2,000 lbs.		Percentages
		Troy Ounces	Val. @ $35 oz.	Troy Ounces	Val. @	
5407	Sour Dough Mine. From vein on new East drift. M. Timmins & H. Adams	5.32	$186.20	----------		

J. F. HARRIGAN

J. F. Harrigan

FORM A-8

REPORT OF ASSAY

J. F. HARRIGAN

ANALYTICAL CHEMIST AND ASSAYER

541 HARTNELL AVENUE

REDDING, CALIFORNIA

DEPOSITED BY C. G. de St. Maurice
9-6-66

SAMPLE OF

Labty. No.	Mark	GOLD, per ton of 2,000 lbs.		SILVER, per ton of 2,000 lbs.		Percentages
		Troy Ounces	Val. @ $35 oz.	Troy Ounces	Val. @	
5266	Sour Dough Mine. Sta. 1 + 23	None found		None found.		

J. F. HARRIGAN

J. F. Harrigan

OME-6877
Dr. Lloyd H. Logan
Sour Dough and Sam Mine
Plumas County, California

INSTRUCTIONS FOR USE

1. Void Previously Used Block
2. Identify Agency of Addressee
3. Write Clearly
4. Send Surplus [illegible] to Supply Room for Re[illegible]

Standard Form No. 65
November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

U.S. Government Messenger Envelope

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
~~TOM MARTIN~~ ~~Rm. [illegible] INTERIOR~~	STOP		STOP
ADP-(Frank Wilkes)	STOP		STOP
~~Director MGS~~	STOP		STOP
OME 4460 Interior	STOP		STOP
OME 6877	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP
	STOP		STOP

Use other side

Use STOP only when messenger service between Government buildings in Washington, D.C., is required or wherever a STOP system is used. Your mail room has STOP information.

65-107

FILE COPY

GEOLOGICAL SURVEY
National Center, Mail Stop 920
12201 Sunrise Valley Drive
Reston, Virginia 22092

December 14, 1973

Lloyd H. Logan, M.D.
450 Sutter Street, Suite 1831
San Francisco, California 94108

Re: OME-6877 (Gold-Silver)
Dr. Lloyd H. Logan
Sour Dough and Sara Mine
Plumas County, California

Dear Dr. Logan:

We have reviewed the supplemental material for your application received on November 30, 1973, and have referred it to Mr. H. K. Stager, Field Officer, OME Region II, for further consideration.

In the event the application is approved for a contract, the identity of the Applicant would have to be better defined. For example, "Lloyd H. Logan, et al., a partnership" with a statement of partnership identifying each partner and percent of interest in the partnership, and signed by each partner probably would meet legal requirements. Three copies of the application form, MME Form 40, are enclosed for this purpose.

Please refer to paragraph 3, page 1, in our letter to you dated November 1, 1973, regarding letters to the banks and their replies. The loan amount that should be requested for your amended application would be about $21,850 (75 percent of the revised estimated total cost of $29,121).

The claims presumably are held by Myles Timmins but no document has been submitted to show transfer of Timmins' interest to the partnership. Under this circumstance, the applicant should be Myles Timmins instead of Dr. Lloyd H. Logan. Any interest in the claims retained by other parties, such as Golden State Mining Co., Inc., should be noted and Lien and Subordination Agreements signed.

We would appreciate receiving assays of samples cut across the 18-foot wide vein intersected in the "1973 Tunnel". Such samples should not exceed intervals of 5 feet each, and should be representative of all material in the sampled interval. A continuous channel cut normal to the dip of the vein would provide satisfactory samples.

We would not approve Government participation in the proposed project if the new exposure of vein material is within the slide area.

Submittal of the additional information described above should not be construed as a commitment by the Government to grant a contract.

Sincerely yours,

Harold Kirkemo, Chief
Office of Minerals Exploration

Enclosures

cc:
DRF
MR Rdg.
OME Rdg.
OME Files
Mr. Kirkemo
Region II

HKirkemo/gpw

LLOYD H. LOGAN, M. D.
450 SUTTER STREET, SUITE 1831
SAN FRANCISCO 94108
362-3688

OFFICIAL COPY
O. M. E.
RECEIVED
NOV 30 1973
INITIALS | CODE
HK | HK

November 26, 1973

Mr Harold Kirkemo
Chief, Office of Minerals Exploration
U.S.G.S. National Cemter
Mail Stop 920
12201 Sunrise Valley Drive
Reston, Virginia 22092

Dear Mr Kirkemo:

Thank you for your letter of November 1, 1973. I am sorry for the misunderstandings that seem to have arisen and hope that the enclosed will clarify and resolve all of the outstanding questions. The granting of a loan from your agency is of vital concern to us and I hope that now there may be a favorable consideration.

Of the two assay reports submitted with the last letter, clarification is as follows:

1. Dated 8-18-73 by D. R. Currey El Cajon, Calif
   Labeled "Plumbago sample" is from an approximate 1 x 4 foot pocket located immediately prior to the encounter with the Old Tunnel "B" on the enclosed map.
2. Dated 9-15-73 by CMG Assay office, Quincy, California
   A random sampling of the material mucked out on the first encounter with the vein proper on the hanging wall side just after crossing Old Tunnel "B"

Future reports will be more detailed in distance along the vein and will be a properly taken sample of the tunnel face.

Mr Stager was kind enough to supply me with your new address, and look over the enclosed as far as completeness.

Sincerely,

Lloyd H Logan

Application for Financial Assistance
in Minerals Exploration

OME 6877 - (Gold-Silver)

Dr Lloyd H Logan
Sour Dough and Sara Mine
Plumas County, California

Amended - November 1973

Update of Data (November 1973)

1) Financial Eligibility:

Current applications from two lending agencies have been submitted A loan for purpose of mineral exploration, with terms as outlined, would not be available in any amount.

2) Applicant's Rights in Land:

Unchanged.

3) Physical Description:

Unchanged.

4) Accessibility of property:

Unchanged.

5) Exploration work:

Work performed during 1973 is indicated on accompanying plat of the general area. It is felt that the tunnels of 1966 and 1972 failed to reveal any significant amount of ore because the areas explored were part of an ancient slide area and the vein was interrupted somewhere between the Old Tunnel "B" and the 1972 tunnel. Because of this conclusion, it was felt that there were two opportunites available for 1973; 1) to tunnel N 35°W in the Rush Lode claim which lies across Rush Creek and where the plumbago-type ore is exposed, this being the continuation of the Sour Dough claim presently under exploration, or; 2) drive a new tunnel, utilizing a portion of the 1972 tunnel, to intersect the Old Tunnel "B", previously described. It was elected to attempt to prove the findings as given in the original application by re-opening the old workings. An encounter was made with Old Tumnel "B" in the area indicated on the accompanying plat. It was decided to drop back in the 1972 tunnel to a point about 60 feet from the entrance where one would be in more solid ground and there make an approximate right angle turn on a bearing to, as nearly as possible, intersect the Old Tunnel "B" in the vicinity of the original point of discovery. At approximately 100 feet, small pockets of plumbago-type ore were encountered and then the Old Tunnel "B" was entered. It was hoped that the old tunnel could be re-entered but time, since 1947, and too light timbering, had taken its toll causing massive cave-ins. The 1973 tunnel was then continued for a short distance, crossing Old Tunnel "B" and there a full face of plumbago-type ore was encountered and followed to the hanging wall side where the vein dip of 85° was demonstrated. An approximate right angle turn was again made to drive across the vein to the foot wall side. To date, an approximate 15 feet of tunnel has been driven through the vein and without reaching the foot wall side. The estimated width of 18 feet, as mentioned in the original application, appears to be confirmed.

Because of the weather conditions, early snow and rain, access roads became impaasable, and operations were discontinued for the winter on November 16. For the purposes of an OME inspection and our winter time security it is

anticipated that access could be made in the winter during favorable breaks in the weather.

6) Experience:

Work during the 1973 period was performed under the direction of Eldon C. Hamrick a full time miner and also a mine owner. Myles Timmins has continued in his supervisory capacity. It is anticipated that if OME funds are available Mr Hamrick and an able crew will again be able to renew operations during the early Spring.

7) Estimate of costs:

There have been three areas of increased costs since the first estimate of 18 months ago -

1) Cost of timber. During the past year the local lumber mills have been made a part of national operations and have discontinued their local sales at the mills. The nearest location for a retail lumber yard is at Redding, California, over 50 miles away. This so far has produced only a moderate increase in cost because of stocks on hand, but it is anticipated that material and delivery cost will add at least 10% to the costs.

2) Labor. Because of the starting up of a number of mines in the area, competition for good miners has increased the cost of labor from $4./Hr to as high as $6./Hr. At the end of 1973 our pay rates varied from $4. to $5.50/Hr depending on the qualifications of the man. It is hoped that this scale can be maintained in 1974 and the revised estimate is based on this premise. The state-wide insurance rates for miners were also increased by the State Compensation Insurance Fund from $15.64 to $16.97/ $100. payroll.

3)Road maintainance work as originally estimated was far too low. It is felt that with current costs, an estimate of $2000. for this work is more reasonable.

7) Estimate of Costs - Revised (November 1973)

Item No.	Description	Quantity	Unit Cost	Amount
1	Drifting, crosscutting & raising	310 L.F.	69.57	21,566.70
2.	Timbering	310 L.F.	14.10	4,371.00
3.	Assaying for gold & silver	35 each	5.25	183.75
4.	Road Maintainance work			2,000.00
5.	Hired Engineering consultants	40 Hours	25.00	1,000.00
			Total	29,121.45

Cost Breakdown

1. Drifting, Crosscutting, Raising - 310 Feet

3 Miners @ $4.00 - 5.50 / Hr (3 ½ ' advance / shift)	31.00	/ L.F.
Taxes	4.24	"
Insurance	7.68	"
Powder, fuse and caps	6.25	"
Compressor rental	3.50	"
Compressor Supplies	3.15	"
Steel and bits	3.25	"
Repairs	2.75	"
Mine rail, ties, etc.	0.65	"
Air and water lines	0.60	"
Rental, mucking machine	5.00	"
Miscellaneous tools and supplies	1.50	"
Total	69.57	/ L.F.

2. Timbering

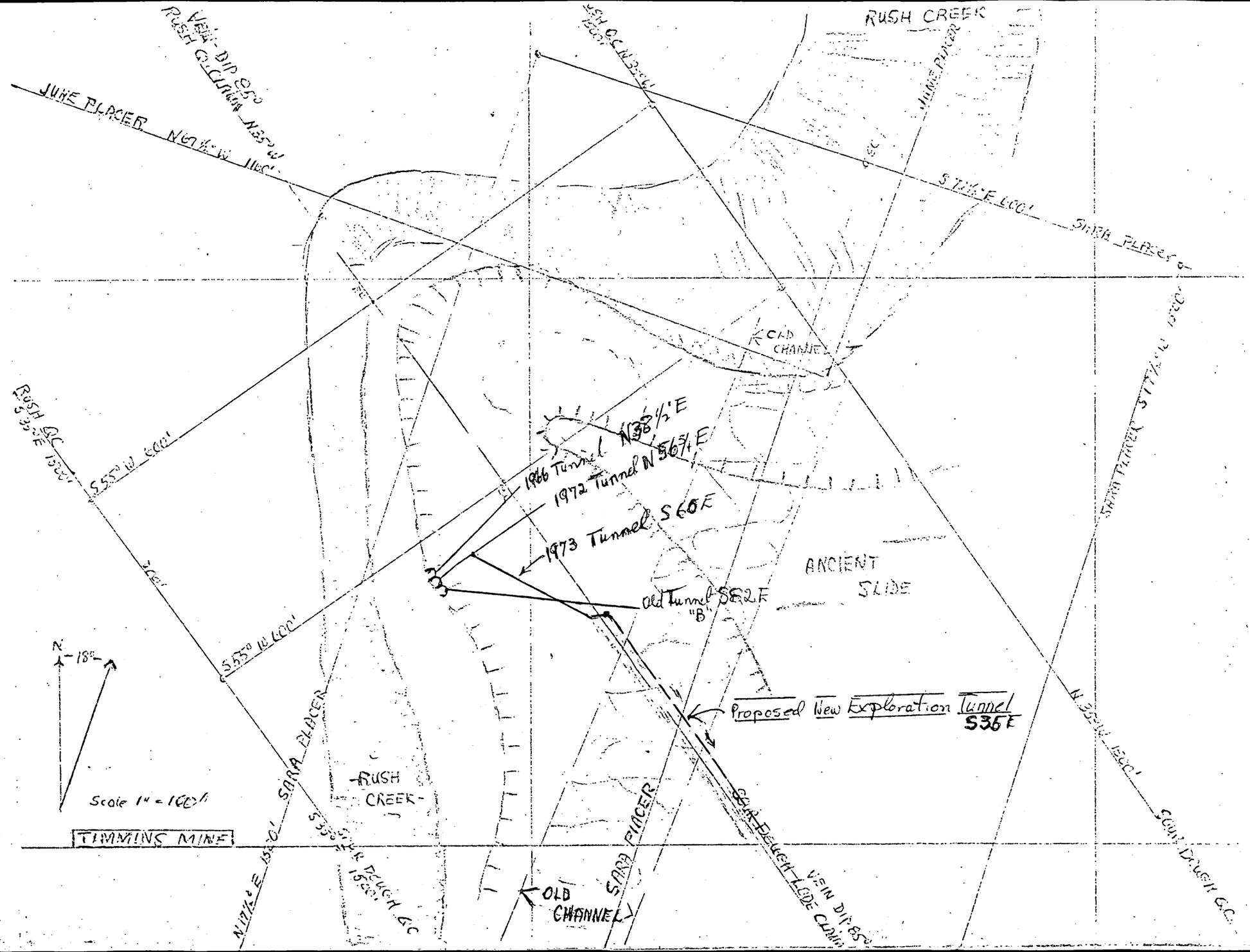
Material (70 fbm/LF), delivered	6.60	/ L.F.
Labor erect	7.50	"
Total	14.10	/ L.F.

3. Assaying

Cost for certified assay	4.50	each
Handling and freight	.75	"
Total	5.25	each

Respectfully submitted,

Lloyd H Logan


RUSH CREEK
JUNE PLACER
SARA PLACER
OLD CHANNEL
ANCIENT SLIDE
1966 Tunnel N38½E
1972 Tunnel N56½E
1973 Tunnel S66E
Old Tunnel "B" S82E
Proposed New Exploration Tunnel S36E
RUSH CREEK
OLD CHANNEL
TIMMINS MINE
Scale 1" = 100'
N 18°

FILE COPY

November 1, 1973

Lloyd H. Logan, M.D.
450 Sutter Street, Suite 1831
San Francisco, California 94108

Re: OME-6877 (Gold-Silver)
Dr. Lloyd H. Logan
Sour Dough and Sara Mine
Plumas County, California

Dear Dr. Logan:

Thank you for your letter of October 19, 1973, requesting reconsideration of your application for financial assistance to explore the subject property.

You state that an ore body has been located but furnish no information on its location or on the location, width, and description of the material sampled and assayed. Of course it is your responsibility to provide these data and a map as a supplement to your original application; and all work done since the OME field examination on August 30, 1972, should be shown on a map. In fact, all data needed to up-date any or all of the seven items listed on the back of the application form should be submitted before we can reconsider the application. The OME representative is not responsible for mapping the new workings or gathering information required to complete the application.

With reference to the two recent letters to and from the banks, we note that credit to the amount of $75,000 was requested. The total estimated cost of the original proposal was about $25,900 of which the Government's share, in the event of a contract, would have been about $19,425. Because of budget constraints on OME funds in the current fiscal year, and commitments to date, we could not consider another contract requiring $56,250 in Government funds. If you were able to provide all of the information required to complete a new or revised application, you also would have to propose a more modest program for OME consideration than you presently contemplate judging from the recent bank correspondence.

We regret that because of the above circumstances we cannot reconsider your application at this time. If the problems mentioned are resolved, and a modest proposal submitted, we would be pleased to review the new information.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo, Chief
Office of Minerals Exploration

cc:
DRF
MR Rdg.
OME Rdg.
OME Files
Mr. Kirkemo
Region II w/copy of incoming

Hkirkemo/gpw

LLOYD H. LOGAN, M.D.
450 SUTTER STREET - SUITE 1831
SAN FRANCISCO 8
~~XXXXXXXXX~~

October 19, 1973

Mr. Harold Kirkemo
Chief, Office of Minerals Exploration
U.S. Dept. of the Interior
Geological Survey
Washington, D.C. 20242

RE: OME (Gold-Silver) 6877
Dr. Lloyd H. Logan
Sour Dough & Sara Mines
Plumas County, Calif.

Dear Mr. Kirkemo:

This is to request reconsideration of the above noted application for financial assistance in exploration of the Sour Dough and Sara Mines in Plumas County, California.

I have been in contact with Mr. H.K. Stager in Menlo Park, California, and he suggested that I write directly to you and also enclose recent bank loan applications. These are attached.

We have now located the ore body that we were unable to demonstrate last year and I am enclosing two reports of samplings that have been taken so far.

We would appreciate if arrangements could be made for a new field examination and hopefully a favorable reconsideration of our earlier application.

Sincerely,

Lloyd H. Logan

LLOYD H. LOGAN, M.D.

LHL:cb

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 26 1973
INITIALS | CODE
HK

. R. Curry, Assayer
14437 Rios Canyon Road
El Cajon, Calif. 92021

ASSAY CERTIFICATE

El Cajon, Calif., 8-18 1973

I hereby Certify that the samples described below, received from TIMMINS RUSH CREEK MINE assay as follows:

OWNER'S MARK AND SAMPLE	GOLD				SILVER				TOTAL VALUE PER TON	PERCENTAGE OF		
	Ozs. Per Ton		Value Per Ton		Ozs. Per Ton		Value Per Ton			Copper	Lead	Zinc
Plumbago Sample	0	54	56	16	1	66	4	45	60.61			

GOLD at $ 104 00 per oz.
SILVER at $ 2.65 per oz.
LEAD at c

Charges 2 00 Paid.

R. R. Curry
Assayer

GMG Assay Office
A Division of GOMIL CHEMICAL CO.
MINERS' EXCHANGE BUILDING
432 WEST MAIN STREET - QUINCY, CALIFORNIA 95971

PHONE: 916-283-2280
CABLE ADDRESS:
"TRANSPHERE"
QUINCY, U.S.A.

MEMORANDUM OF ASSAY

MADE FOR MYLES TIMMINS DATE Sept 15, 1973

SAMPLE NO.	PER TON OF 2000 POUNDS AVOIRDUPOIS								COPPER, OR			LEAD, OR			TOTAL	
	GOLD				SILVER											
	AT		PER OUNCE		AT		PER OUNCE		AT	PER LB.		AT	PER LB.			
	OZS.	100'S	$	CTS.	OZS.	100'S	$	CTS.	%	$	CTS.	%	$	CTS.	$	CTS.
	0	24	42	22	0	03	2	56							10	21

WILLIAM E. MILLER
ASSAYER

ASSAY OFFICE
MINERS' EXCHANGE BUILDING
432 W. MAIN STREET
QUINCY, CALIFORNIA 95971

TELEPHONE 283-2280
AREA CODE 916

ASSAY NO. 1692

CHARGES $ 5.00 Paid

BY [signature]
WILLIAM E. MILLER, ASSAYER.

CHEMISTRY *Touches* EVERYTHING

LLOYD H. LOGAN, M.D.
450 SUTTER STREET · SUITE 1831
SAN FRANCISCO 8
[illegible]

October 16, 1973

Loan Officer
Bank of America
Ocean-Faxon Branch
San Francisco, California

Dear Sir:

With a group of partners, for whom I am authorized to negotiate a loan, I am engaged in exploration for gold in the Rush Creek area near the town of Greenville in Plumas County California.

We would require credit to the amount of $75,000. to aid with the present exploration, this would be the maximum on the present program.

As security we would offer a series of five unpatented mining claims, held in the names of the group, all claims being current, with the latest assessment work having been done and recorded. As to experience in this type of work, one member of the group has been mining all of his life and the others have had some similar experience. A qualified Mining Engineer has been engaged for consultant work.

We would propose to begin repayment of any loan with the beginning of production work, and then from a negotiated percentage of the gold produced. Until such time as production is commenced, we would offer a maximum of 5% on any funds borrowed.

A personal financial statement will be sent on request if your bank would be interested, also other appropriate papers, of partnership and claims.

Yours truly,

Lloyd H. Logan

BANK OF AMERICA

OCEAN-FAXON OFFICE

October 17, 1973.

Lloyd H Logan M.D.
450 Sutter Street Suite 1831
San Francisco Ca 94108

Dear Dr Logan:

Thank you for your letter dated October 16 containing your request for a loan to be used in exploration for gold in the Rush Creek area of Plumas County, California; however, we are unable to make loans of this nature at the present time.

We do appreciate your application, and perhaps when this field is developed at some future date, you would like to reapply.

Sincerely,

R.G. Moore
Manager

LLOYD H. LOGAN, M.D.
450 SUTTER STREET · SUITE 1831
SAN FRANCISCO 8
YUKON 2-3500

[illegible]

Loan Officer
Wells Fargo Bank
7th Avenue and Clement Ave
San Francisco, California

Dear Sir:

With a group of partners, for whom I am authorized to negotiate a loan, I am engaged in exploration for gold in the Rush Creek area near the town of Greenville in Plumas County California.

We would require credit to the amount of $75,000. to aid with the present exploration, this would be the maximum on the present program.

As security we would offer a series of five unpatented mining claims, held in the names of the group, all claims being current, with the latest assessment work having been done and recorded. As to experience in this type of work, one member of the group has been mining all of his life and the others have had some similar experience. A qualified Mining Engineer has been engaged for consultant work.

We would propose to begin repayment of any loan with the beginning of production work, and then from a negotiated percentage of the gold produced. Until such time as production is commenced, we would offer a maximum of 5% on any funds borrowed.

A personal financial statement will be sent on request if your bank would be interested, also other appropriate papers, of partnership and claims.

Yours truly,

Lloyd H. Logan MD

Since 1852

WELLS FARGO BANK

NATIONAL ASSOCIATION

SEVENTH AVENUE-CLEMENT OFFICE
599 CLEMENT STREET
SAN FRANCISCO, CALIFORNIA 94118

October 18, 1973

Lloyd H. Logan, M.D.
450 Sutter Street Suite 1831
San Francisco, California 94108

Dear Doctor Logan:

In connection with your application for credit of $75,000.00 for gold exploration, we must regretfully advise you that the application has been denied.

May we take this time to thank you most sincerely for your patronage during these years. Possibly we could be of assistance in the future.

Very truly yours,

K. H. Pence,
Banking Services Officer

KHP/ed

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/26	Weeks	

SEP 27 1972

Dr. Lloyd H. Logan
450 Sutter Street
Suite 1831
San Francisco, California 94108

Re: OME-6877 (Gold-Silver)
Dr. Lloyd H. Logan
Sour Dough and Sara Mine
Plumas County, California

Dear Dr. Logan:

Careful study of your application for financial assistance in exploring the Sour Dough and Sara Mine and other information available to us indicates the probability of disclosing significant gold-silver ore reserves is not sufficiently promising to justify Government participation in the proposed exploration. Accordingly, we regret to inform you that your application is denied.

We wish to thank you for your interest in the mineral exploration program.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's reading file
Mineral Resources
OME reading file
Region II
Mr. Kirkemo
Mr. Weeks
130

RWeeks:cac 9/26/72

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/26/72	Kirkham	
9/26	Weeks	

September 26, 1972

Memorandum

To: The Files

From: Assistant Chief, Office of Minerals Exploration

Subject: OME-6877 (Gold-Silver)
Dr. Lloyd H. Logan
Sour Dough and Sara Mine
Plumas County, California

Justification for Denial of Application

The applicants proposed to explore for a gold and silver-bearing quartz vein and an associated buried placer deposit on Rush Creek, Plumas County, California. Estimated cost of the project, as requested by the applicant, amounted to $25,863.75.

The Field Examiner concluded on the basis of an on-site study of the property and its various accessible workings that the geologic probability of finding a minable deposit of gold in the inferred vein or in a buried placer deposit is not very favorable. Prior attempts to locate these inferred deposits have not been successful, and additional exploration work done by the applicants since they submitted their proposal has not been successful.

In view of the limited evidence to justify the amount of work outlined, I concur with the Field Examiners recommendation to deny the application.

Robert A. Weeks

Robert A. Weeks

cc: Director's reading file
Mineral Resources
OME reading file
Mr. Weeks

RWeeks:cac 9/26/72

United States Department of the Interior

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

September 20, 1972

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 25 1972

INITIALS	CODE
Cal	120
gla	130
HK	120
	B.W.

Memorandum

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

From: Field Officer
Region II

Subject: OME-6877 (Gold-Silver)
Dr. Lloyd H. Logan
Sour Dough & Sara Mine
Plumas County, California

Enclosed is an Application Report on the subject property recommending that the application be denied. The geologic probability of making a significant discovery of either a placer gold deposit or a gold- and silver-bearing lode deposit as a result of the proposed work is too low to justify Government participation. Most of the Applicants' proposed crosscut adit has already been completed, at their entire expense, and the results of this work are not favorable. If the Applicants do succeed in reaching the target vein, and find it to be in place and significantly mineralized, another examination might be justified and the application reconsidered.

H. K. Stager
mh

H. K. Stager

Enclosure

UNITED STATES

DEPARTMENT OF THE INTERIOR

ROGERS C.B. MORTON, SECRETARY

GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION

REPORT OF EXAMINATION

REGION II

APPLICATION REPORT

OME-6877 (Gold-Silver)
Dr. Lloyd H. Logan
Sour Dough & Sara Mine
Plumas County, California

By

H. K. Stager
Field Officer
OME, Region II

September 20, 1972

O N- SITE
APPL. REPORT

CONTENTS

	Page
INTRODUCTION	1
SUMMARY	1
RECOMMENDATIONS	2
LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES	2
PROPERTY	3
History and Production	3
Ownership	3
Financial Eligibility	4
Development	4
GEOLOGY	5
Geologic Setting	5
Ore Deposits	5
Sampling	6
Ore Reserves	6
EXPLORATION	7
Applicants' Proposal	7

ILLUSTRATIONS

Figure 1. Index map of Plumas County, California.

INTRODUCTION

Dr. Lloyd H. Logan, 450 Sutter Street, Suite 1831, San Francisco, California 94108, on behalf of a partnership of five individuals, applied to the Office of Minerals Exploration for Government assistance in an exploration project, Docket OME-6877, to explore for gold and silver at the Sour Dough & Sara Mine, Plumas County, California. The Applicants infer the presence of minable gold- and silver-bearing ore shoots in a quartz vein, and placer gold deposits in a buried river channel, on the property and wish to explore for these deposits by crosscutting, drifting, and raising.

A review and field examination was requested by the Office of Minerals Exploration and was made by H. K. Stager, Field Officer, on August 30, 1972, accompanied by the Applicants. The Applicants' maps, assays, and other data were examined and compared with surface and underground exposures on the property.

SUMMARY

The Sour Dough & Sara Mine, also known as the Timmons Mine, consists of several old crosscut adits and drifts, now caved and inaccessible, and a new crosscut adit being driven by the Applicants to explore a quartz vein and a buried river channel in sedimentary rocks. The results of the field examination indicate that the area of the proposed work is in a large landslide and the presence of minable deposits of gold in the inferred quartz vein, or overlying channel, is highly questionable. Several previous attempts to explore the target area have been unsuccessful and the accessible exposures indicate that the geologic conditions are not favorable.

The Applicants proposed to explore the property by driving a crosscut adit to the quartz vein, drifting on the footwall of the vein, and raising into the overlying channel. This work, consisting of 310 feet of timbered drifts, crosscuts, and raises, including supervision, assaying, and road maintenance, was estimated to cost about $25,863 and require about 4 months to complete.

RECOMMENDATIONS

It is recommended that the application be denied. The geologic probability of discovering minable gold-silver bearing ore bodies, or placer deposits, as a result of the proposed work is too low to justify Government participation.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Sour Dough & Sara Mine is in secs. 24 and 25, T. 26 N., R. 8 E., MDM, Plumas County, California (Fig. 1), on Rush Creek at an altitude of about 4,800 feet.

To reach the property, that is about 6 miles southwest of Greenville (the nearest town), drive southwest about 3 miles to Round Valley Reservoir, turn right (west) on a graded Forest Service dirt road and drive about 3 miles to Long Valley, then continue southwest down Rush Creek about 4 miles to the property. The last mile is a poor road and is best suited to 4-wheel drive vehicles. The road is closed by snow during the winter months. The drive from Greenville requires about 30 to 45 minutes in good weather.

Most services and supplies are available in Greenville. There is abundant timber and water on the property and mine dimension timber is available from sawmills in the Greenville area. Assay services are available in Redding, California (130 miles), at about $5 per sample for gold and silver. Mine labor is available in the region for about $4.00 per hour.

PROPERTY

History and Production

Placer gold was discovered on Rush Creek during the late 1800's and numerous placer deposits along the creek were worked for many years. In 1944 Myles Timmins, one of the Applicants, started work on the subject property. In July 1945 he located the Sara Placer Claim and found a small deposit of placer gold that he mined for several years. In 1947 he drove an adit in search of the downstream extension of the gravel deposit that he had mined about 400 feet upstream, but was not successful although he did find a quartz vein. Material from this vein was stockpiled for a mill test, but the stockpile was washed away during a flood in the winter of 1948-49. The adit soon caved and little additional work was done until 1966 when the Golden State Mining Company leased the property and drove a new adit in search of the "Timmins vein". The adit was stopped at 90 feet, because of winter storms, without reaching the vein. During 1967 the adit was extended an additional 20 feet but the vein was not intersected. No additional work was done until 1972 when the present application for OME assistance was made and the Applicants established a camp on the property and started driving a new adit.

The amount of gold produced from the early placer operation on the property is not known and Mr. Timmins apparently did not keep a record of his production.

Ownership

The property consists of six unpatented mining claims, in part overlapping (two placer claims and four lode claims), as follows:

Claim Name	Book	Vol. No.	Page
Sara Placer	Placer	19	307
Sour Dough Lode	Quartz	28	65
Sour Dough No. 1 Lode	Quartz	42	744
Rush Lode	Quartz	42	567
Rush No. 1 Lode	Quartz	42	606
June Placer	Placer	27	580

These claims are held by the members of the partnership by rights of location and transfer. All are recorded at Quincy, California.

Financial Eligibility

The Applicants furnished copies of letters to two banks requesting a loan to finance the proposed exploration and copies of letters from the banks refusing the request. The Applicants stated that the non-Federal share of the costs of the exploration work would be furnished by Dr. Lloyd H. Logan. At the time of the examination Dr. Logan informed me that he had spent about $7,000 to date on the project, including costs of driving about 100 feet of crosscut adit, and was prepared to spend an equal amount if a contract is approved.

Development

The property is developed by four old crosscut adits that are now caved and inaccessible, and a new crosscut adit recently started by the Applicants. Most of the bed of Rush Creek has been placer mined several times and one bench area, about 100 feet in diameter and about 50 feet above the stream bed, has also been mined by Mr. Timmins.

The new crosscut adit, that is a part of the project proposed in the subject application, was started in June 1972 and at the time of the field examination had been driven a total of about 100 feet. It is completely timbered and lagged.

Surface facilities consist of a small cabin that houses the crew of 3 to 4 men. Minimal mining equipment and supplies are on hand.

GEOLOGY

Geologic Setting

The Sour Dough & Sara Mine is in an area of moderate to steep relief and much of the surface is covered by slope wash, landslide material, and dense vegetation. Outcrops are sparse and most of the man-made exposures, in pits and adits, are caved and inaccessible. The rocks that are exposed, in roadcuts and stream beds, are in general metasedimentary rocks of Upper Paleozoic age overlain locally by volcanic rocks of Tertiary age. In the immediate vicinity of the Applicants' proposed exploration a large landslide mass of intensely brecciated material, containing fragments of schist, limestone, greenstone, and quartz vein material, has slid into Rush Creek Canyon from the southeast side causing the creek to make a sharp turn to the northwest for about 600 feet (see Applicants' map). Underlying this landslide, and exposed in the stream bed about 1,000 feet downstream, is a mica-schist that strikes about N. 45° W. and dips about 70° SW. Thin quartz veins occur in the schist and some of these are reported to be gold bearing. The sides of an ancient stream channel, about 100 feet apart and dipping steeply toward each other, are exposed downstream from the mine area and may represent the old Rush Creek channel or a Tertiary river channel. This old channel is completely filled with brecciated landslide material. The Applicants believe this channel contains gold-bearing placer material in the vicinity of their proposed exploration.

Ore Deposits

The only gold mined on the property was from a small placer deposit on a bench above Rush Creek. Other placer deposits, both upstream and downstream

from the property, have been mined in the past. The amount, and grade, of material washed during these operations is not known although it was probably small. Although quartz veins and lenses are common in the metasedimentary rocks of the area, none are known to have yielded ore. The Applicants claim that a thick (18 feet wide) quartz vein was intersected by previous adits, and that it is gold bearing, but there are no assay data to support this statement and the vein is not exposed on the surface.

Sampling

There were no mineralized exposures available for study or sampling at the time of the examination and no samples were taken. Assays listed in the application indicated only a few hundreths of an ounce of gold and no silver except for one sample, taken from the adit driven in 1966, that contained 5.32 ounces of gold per ton. It is not clear what this sample represented, nor where it was taken, but it was apparently part of a piece of mineralized quartz contained in the brecciated material of the old landslide through which the crosscut was being driven.

Ore Reserves

There are no ore reserves indicated or inferred in the Sour Dough & Sara Mine. Although Mr. Timmins claims to have mined and stockpiled about 100 tons of mineralized quartz vein material in the past, there are no known assays of this material and the entire stockpile was washed away in a flood on Rush Creek in 1948-49. A small quantity of placer material may still be present on the property but no sample data are available and no estimates of the quantity have been made.

EXPLORATION

Applicants' Proposal

The Applicants proposed to explore the Sour Dough & Sara Mine by driving a crosscut adit to the quartz vein, drifting on the vein, and raising along the vein to the overlying channel. This work, consisting of about 310 feet of crosscutting, drifting, and raising, with supervision, road maintenance, and assaying, was estimated to cost about $25,863 and require about 4 months to complete.

The Applicants' proposed project is probably the best way to explore the deposit but two previous attempts, undertaken in the same manner, have been unsuccessful. There is no evidence to indicate the presence of gold-bearing gravels in the short section of the channel to be tested and none of the quartz veins in the area have yielded minable ore shoots.

The Applicants are proceeding, at their own expense, to drive the crosscut adit to the quartz vein and at the time of the examination had almost reached the projected position of the vein. If a favorable mineralized quartz vein is intersected by the crosscut, a second examination may be justified and consideration given to OME participation in the driving of a few hundred feet of drift.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OME-6877
(Gold-Silver)

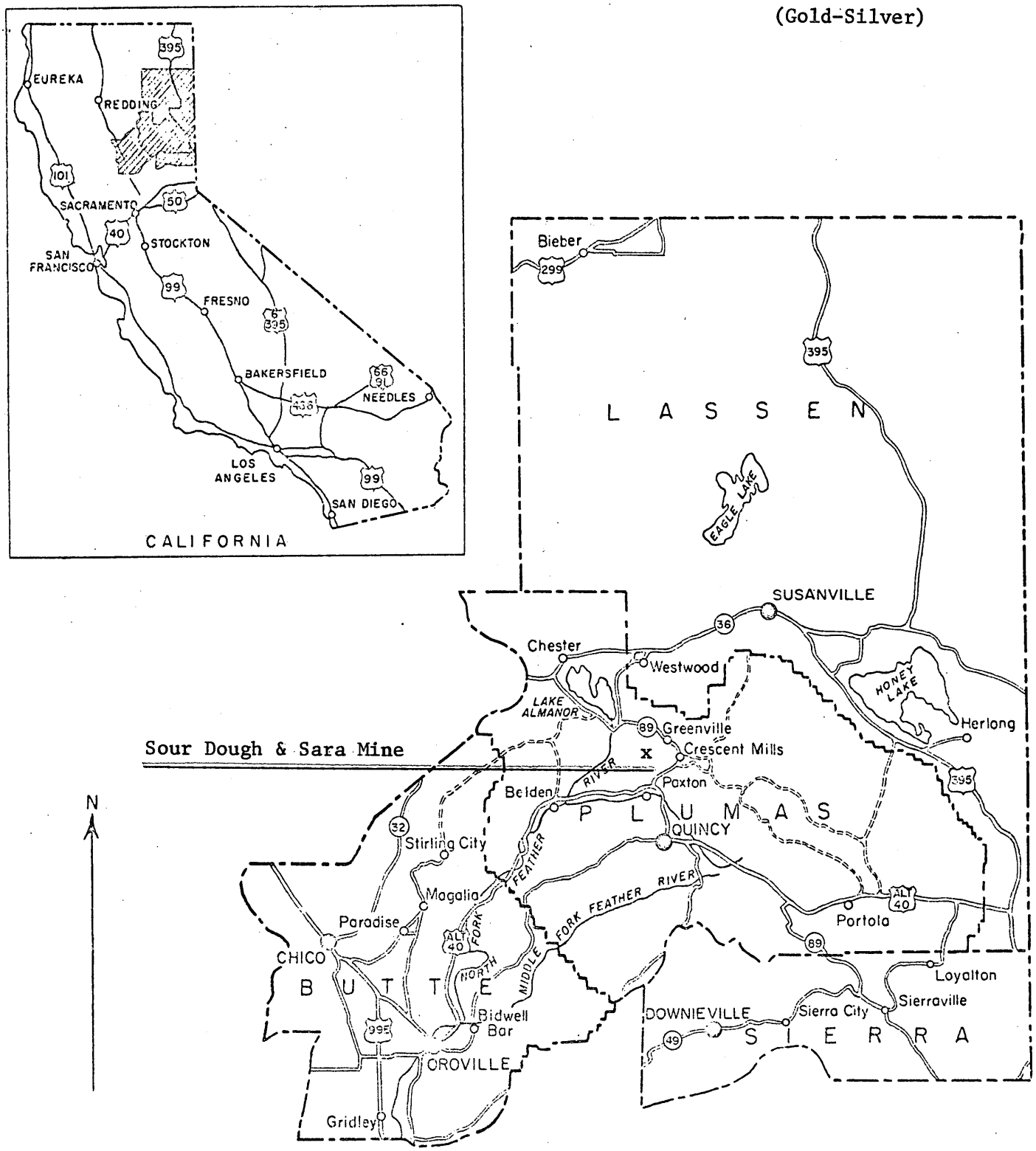


Figure I. INDEX MAP OF BUTTE, LASSEN, PLUMAS, AND SIERRA COUNTIES, CALIFORNIA

0 20 40 60 Miles

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
	Weeks	

JUL 18 1972

Memorandum

To: Field Officer, Region II

From: Acting Chief, Office of Minerals Exploration

Subject: OME-6877 (Gold-Silver)
Doctor Lloyd H. Logan
Sour Dough and Sara Claims
Plumas County, California

The subject application is referred to you for further study, a field examination if warranted, and your recommendation.

Robert A. Weeks

Robert A. Weeks

cc: Director's reading file
Mineral Resources
OME reading file
Mr. Kirkemo
Mr. Weeks

RAWeeks:cac 7/18/72

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7-18	Weeks	

JUL 18 1972

Dr. Lloyd H. Logan
450 Sutter Street
Suite 1831
San Francisco, California 94108

Subject: OME - 6877 (Gold-Silver)
Dr. Lloyd H. Logan
Sour Dough & Sara Mine
Plumas County, California

Dear Doctor Logan:

Your application for exploration assistance dated July 5, 1972, has been assigned Docket No. OME-6877. Please identify all future correspondence relating to this application by this docket number.

We enclose for your information a copy of Exhibit A, entitled "Notice to prospective Federally assisted construction contracts" which describes certain recent additional regulations and requirements. This should be filed with your copy of the application.

The application has been reviewed in this office and referred to Mr. H. K. Stager, Field Officer, Region II, Office of Minerals Exploration, US Geological Survey, Building 2, 345 Middlefield Road, Menlo Park, California 94025.

Mr. Stager will contact you if additional information is required or to arrange for a field examination.

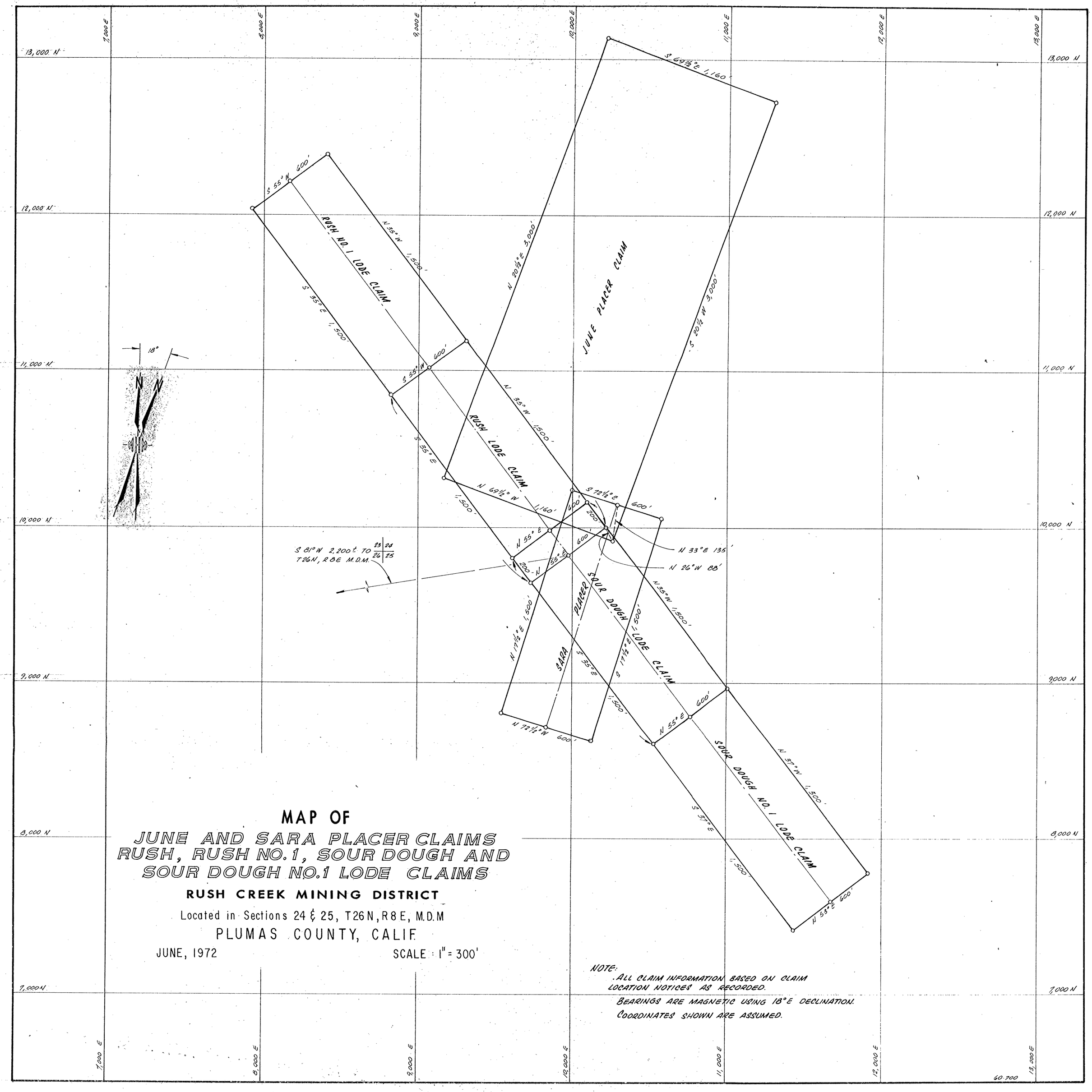
Sincerely yours,

Harold Kirkemo

Harold Kirkemo

Enclosure

cc: Director's reading file
Mineral Resources
OME reading file
Region II
Mr. Kirkemo
Mr. Weeks RWeeks/cac 7/18/72



MAP OF
JUNE AND SARA PLACER CLAIMS RUSH, RUSH NO. 1, SOUR DOUGH AND SOUR DOUGH NO. 1 LODE CLAIMS

RUSH CREEK MINING DISTRICT

Located in Sections 24 & 25, T26N, R8E, M.D.M

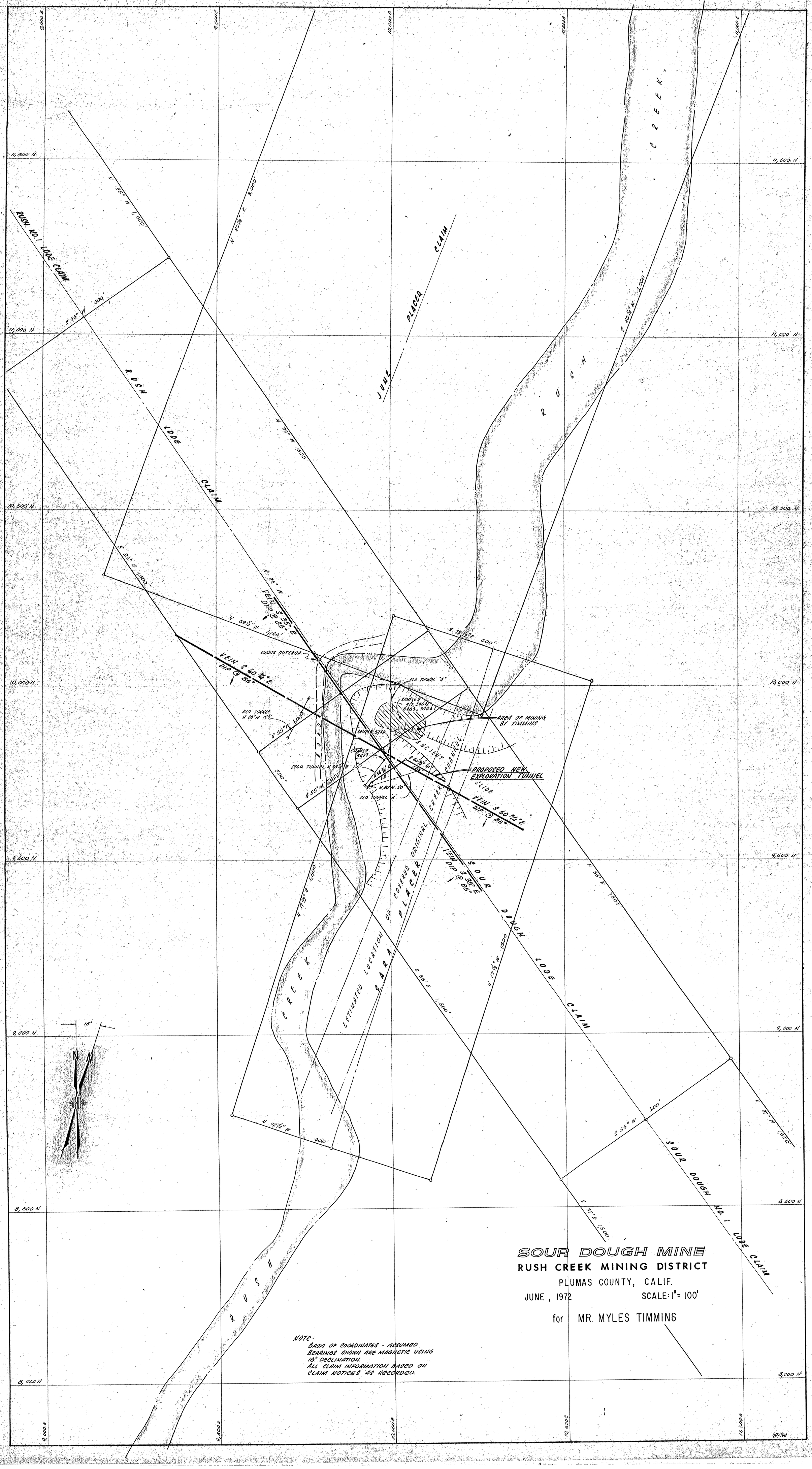
PLUMAS COUNTY, CALIF.

JUNE, 1972

SCALE: 1" = 300'

NOTE:
ALL CLAIM INFORMATION BASED ON CLAIM LOCATION NOTICES AS RECORDED.
BEARINGS ARE MAGNETIC USING 18° E DECLINATION.
COORDINATES SHOWN ARE ASSUMED.

60-700


SOUR DOUGH MINE
RUSH CREEK MINING DISTRICT
PLUMAS COUNTY, CALIF.
JUNE, 1972
SCALE: 1" = 100'
for MR. MYLES TIMMINS
NOTE:
BASIS OF COORDINATES - ASSUMED
BEARINGS SHOWN ARE MAGNETIC USING 18° DECLINATION.
ALL CLAIM INFORMATION BASED ON CLAIM NOTICES AS RECORDED.
RUSH NO. 1 LODE CLAIM
RUSH LODE CLAIM
JUNE PLACER CLAIM
SOUR DOUGH LODE CLAIM
SOUR DOUGH NO. 1 LODE CLAIM
RUSH CREEK
ESTIMATED LOCATION OF COVERED ORIGINAL CREEK
SARA PLACER
ANCIENT CHANNEL
SLIDE
AREA OF MINING BY TIMMINS
PROPOSED NEW EXPLORATION TUNNEL
QUARTZ OUTCROP
OLD TUNNEL "A"
OLD TUNNEL "B"
OLD TUNNEL N 28°W 129'
1966 TUNNEL N 38½°E 110'
VEIN S 60¾° E DIP @ 85°
VEIN S 35° E DIP @ 85°
N 35° W 1,500'
N 20½° E 3,000'
S 20½° W 3,000'
N 69½° W 1,160'
S 12½° E 600'
S 55° W 600'
N 72½° W 600'
S 35° E 1,500'
N 17½° E 1,500'
S 17½° W 1500
N 37° W 1,500'
S 37° E 1,500'
18°
N
9,000 E
9,500 E
10,000 E
10,500 E
11,000 E
11,500 N
11,000 N
10,500 N
10,000 N
9,500 N
9,000 N
8,500 N
8,000 N
60-700