Earl Templeman
P.O. Box 53
Hornbrook, Calif.

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of Jackson, State of Oregon,

described as follows:[2] Claims 1,2,3,4,5, & 6 on Section 19, TWP 39S Range 3 West

Lying in the Star Gulch area, also known as the Iron Hat Lode. File No. 68-12249

officialRecord.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and

Earl J. Templeman, of P. O.Box 53, Hornbrook, Calif.[3]

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and liens to secure same.[4]

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

NONE

Dave Snyder

James R Clary

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated_____, and recorded in Book_____, Page____, official records of said county". If (b) is used, the book and page of recordation must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions None (State "None" or "See Annex No.____".)

Dated this 20 day of March, 1969.

Dave Gonzales (Seal)	2000 Ashland Mine Rd.	(Street)
	Ashland, Oregon	(City & State)
James R Clary (Seal)	233 Granite St	(Street)
	Ashland Ore	(City & State)
(Seal)		(Street)
		(City & State)
(Seal)		(Street)
		(City & State)
(Seal)		(Street)
		(City & State)
(Seal)		(Street)
		(City & State)

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____ (Corporate Seal)

Earl J. Templeman
P.O. Box 53
Hornbrook, Calif.

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Jan. 1959

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		ashland ore	(City & State)
	(Seal)		(Street)
			(City & State)
	(Seal)		(Street)
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INT.-DOP. SEC., WASH., D.C. 21103

Earl J Templeman
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MME Form 52
Jan. 1959

UNITED STATES
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OFFICE OF MINERALS EXPLORATION

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x Earl J. Templeman

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Earl J. Templeman
P.O. Box 53
Hornbrook, Calif.

Signer's Copy

MME Form 52
Jan. 1959

UNITED STATES
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OFFICE OF MINERALS EXPLORATION

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NONE

James R Bowers

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	Ashland, Ore.	(City & State)
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MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6780

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
- [x] Owner's Consent to Lien and Subordination Agreement
- [x] Application and Attachments

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)
- All other material filed in chronological order including the following reports if checked:
- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam. Report (Tab) 4/23/69
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

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

Right Side

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

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

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

72195-65

IN REPLY REFER TO

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
U.S. Court House, Rm. 656
West 920 Riverside Avenue
Spokane, Washington 99201
April 1, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
APR 3 1969

INITIALS	CODE

Memorandum

To: Acting Chief, Office of Minerals Exploration

From: Willard P. Puffett, Geologist

Subject: Transmittal of Application for Financial Assistance
Earl J. Templeman (Gold-Silver)
Iron Hat Prospect
Jackson County, Oregon

Herewith is transmitted an application for assistance in exploring for gold and silver at the Iron Hat prospect, Jackson County, Oregon. The application is complete, and in order, except that a more detailed geologic justification is desired. I do believe however that there is sufficient information in the application on which to plan a field examination.

I have made arrangements to examine a mine near Ashland, Oregon, on April 8 and 9, 1969. The property of the subject application is only about 20 miles from the other mine near Ashland, and it would be most convenient for me to examine the subject property on the same trip. Unless I hear to the contrary, I will plan to examine the Iron Hat prospect next week. I will confirm this with your office by telephone.

Willard P. Puffett
Willard P. Puffett

Enclosures

4/3/69
OK to examine
CAP

MME Form 40
(Revised Nov. 68)

Budget Bureau No. 42-R1368
Approval expires Dec. 1971

RECEIVED
Via Registered
APR 1 1969

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL COPY
O.M.E.
RECEIVED
APR 3 1969
MINERALS 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.)*	APPLICANT DO NOT USE THIS BLOCK
EARL J. TEMPLEMAN P. O. Box 53 HORNBROOK, CALIF.	DOCKET NUMBER 6780 DATE RECEIVED 4-3-69 REGION I DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*	LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE — NAME / ADDRESS / TITLE
INDIVIDUAL [X] CORPORATION [ ] PARTNERSHIP [ ] OTHER *(Specify)* [ ]	NOT APPLICABLE
STATE IN WHICH FIRM IS ORGANIZED	

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE	PROPERTY NAME	LOCATION COUNTY	STATE
Gold & Silver	IRON HAT,	Jackson	Oregon
ESTIMATED COST OF PROJECT Total cost $61,000. Your cost $46,000. 45,750			

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.

Mar. 21, 1969
DATED

Earl J. Templeman
BY (Signature)

Supervisor
TITLE

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

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include (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 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 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. 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).]

Earl Tenpleman
P.O. Box 53
Hornbrook, Calif.

2- APPLICANT'S RIGHTS IN LAND:

(a) I am the Lessee holding a 90% interest in claims 1 through 6 for a period of 55 years. Lease is recorded in Jackson Co. CourtHouse, at Medford, Oregon and has filing No.69-00105 Official Records- Lease included.

(b) Legal description Sec. 19 TWP 39S Range 3 West, lying in Star Gulch area, consisting of 6 unpatented claims, see Exhibit No. 5, Recording No. 68-12249 Official Record s, Medford, Oregon. Sending 2 copies Mining Locations and sending 5 copies Form MME52.

3- PHYSICAL DESCRIPTION:

(a) There are 2 shafts about 20' deep. 1st one 800' North from oiled road assaying $10.10 on dump and 2nd shaft assaying $10.25 on dump, which is 375 ft North of Shaft No. 1. 25 Ft. North of Shaft No. 2 is an existing 4x6 ft tunnel 45 ft into the hillside assaying $21.65 in the back end in gold and silver. See exhibit map No. 2. These tunnels and shaft were opened about 40 years ago but at that time the operators did not know how to reclaim the values in a sulphide ore.

(b) NONE.

(c) Not available and none recorded.

(d) See Assay Exhibits No. 3 & 4, the property has been examined by Carl Yates, a mining engineer & geologist of Yreka who states in his opinion that it is a very large deposit, and that is the reason I am requesting exploration loan to find out the extent of the deposit.

(e) This gold and silver sulphide ore as viewed from within the tunnel consists of numerous veins from 16" to 24" in width, standing nearly perpendicular and running in a northerly to southerly direction, they also carry 360# of sulphur per ton, plus of course the gold and silver. The green stone and quartz that lies between the veins carries $13.90 in gold and silver.

(f) See Exhibit No. 3 . A This sample was taken from the top of the dump which would of been the ore from the bottom of the shaft which was full of water so could not get to the shaft bottom. This water will run off and shaft will be dry this summer.

B in Exhibit 3 was taken the same as A, and same condition applies as in A.

C Exhibit 3 was taken from the tunnel vein 45' in and consisted of about 5# of ore chopped out of vein, assayed $21.65.

D Exhibit 3 was taken 45 ft in tunnel from the green stone and quartz between the veins and assayed $13.90 gold and silver.

E & F Exhibit 4 were taken from portal face which runs $11.51 in the vein and $8.10 in green stone and quartz.

(g) Enclosing two Ruch Quadrangle maps with section 19 marked.

4- ACCESSIBILITY OF PROPERTY.

(a) 1st Contact, Earl J. Templeman, PO Box 53, Hornbrook, Calif. (no phone).

2nd Contact, Ray Clary, 233 Granite St., Ashland, Oregon, Phone 482-3854.

Property is accessible any time of the year by car over oiled road, 19 miles from Jacksonville or 24 miles from Medford, Oregon.

(b) Medford, Oregon, 24 Miles from mine.

5- EXPLORATION WORK:

(a) Referring to map No. 2, I want to start 100 ft from the tunnel in each of the 4 ~~in~~ directions by compass reading N.E.S.W. which will make 4 core drilled holes each 100' away from the tunnel entrance then go out another 100 ft in each direction with core samples every 5 ft in depth and from then on going in the same four directions at intervals of 100' until ore samples run out in commercial quantities,all core drill samples will be made with a 1½" diamond drill which makes a 3/4" core until 2000 ft. of hole is drilled and sampled and assayed every 5 ft after ore is hit.

(b) Repair and remove some trees from an old road which was there and used forty years ago. Estimated time two days cat work with D-8 or other equivalent machine at $30.00 per hr. Road 1200 ft. long from oiled road to mine tunnel.

(c) Work can be started at once and it will require four months to finish, weather being a determining factor.

6- EXPERIENCE

I will supervise the work, having had experience for many years in supervision, prospecting, sampling of ores, assaying, building and research on minerals.

7- ESTIMATE OF COSTS:

Total of 2000 ft. of drilling and coring every 5 ft. in ore @ $10.00 ft $20,000.

(a) NONE

(b)	Supervision $50. per day 4 months	$4000.	
	Engineering $75. per day 4 "	6000.	
	Assaying 400 samples in 2000' @ 5.00	2000.	
	Cook @ $125. per week	2000.	
	Drilling helper @ $3.00 640 hours	1924.	
	Driller @ $50. per day	4000.	
		19924.	$ 19,924.
(c)	Fuel @ $5.00 per day	400.	
	Butane	26.	
		426.	426.
(d)	FURNISHED BY ME:		
	1 Caterpillar 15 with drill attached	6000.	
	1 trailer for transporting above	1000.	
	1 1946 International truck 3/4 ton	3000.	
	1 Braun 4" Jaw Laboratory Crusher & Motor	1200.	
	1 " Pulverizer " Reduction Gear	1200.	
	1 Laboratory Mill	1200.	
	1 " Balance	750.	
	Misc. chemicals & Lab. equipment	1000.	
		15,350.	
(3)	NONE NEEDED		
(f)	1- 8x16 ft Portable Lab. Bldg.	1280.	
	1- 8x16 ft " Bunk house	1280.	
	1- 8x16 ft. " Cook house	1280.	
		3840	3,840.
(g)	Maintenance on equipment	1000.	
	Insurance, compensation, & Tax	1000.	
		2000.	2,000.
			$ 46,190.

Earl J Templeman
P.O. Box 53
Hornbrook, Calif.

Earl J. Templeman
P.O. Box 53
Hornbrook Calif

UNITED STATES NATIONAL BANK OF OREGON

ASHLAND BRANCH
30 N. SECOND STREET
P. O. Box 100, ASHLAND, OREGON 97520
HEAD OFFICE — PORTLAND

March 24, 1969

Mr. Earl J. Templeman
Box 53
Hornbrook, California

Dear Mr. Templeman:

Referring to your recent letter, requesting a loan of $45,000 to develop an open pit mine, we regret to inform you that we have no funds whatever available for either speculative or investment purposes.

Very truly yours,

A. C. Fries, Jr.
Manager

ACF:bl

Earl J. Templeman
P.O. Box 53
Hornbrook, Calif

FIRST NATIONAL BANK OF OREGON

ASHLAND BRANCH, 67 EAST MAIN STREET, ASHLAND, OREGON 97520

March 21, 1969

Earl J. Templeman
PO Box 53
Hornbrook, California

Dear Mr. Templeman:

Thank you for your letter and the description of your mine. We regret that this loan does not appear to be one that we can make to you. Mining is one of the industries that our bank does not have a plan for and any such loan would have to be based on security at the present time, and, of course, would have to be in our banking area.

We do appreciate hearing from you and we regret that we cannot grant your request.

Very truly yours,

C H McKeen

C. H. McKeen
Assistant Cashier

69-00103

Lease

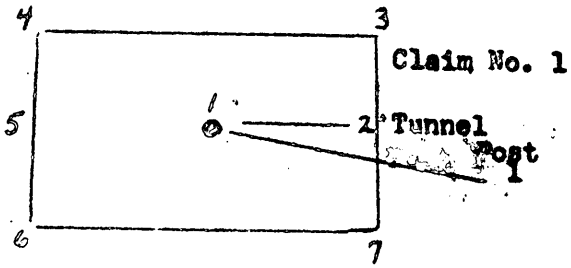
Earl J. Templeman
P.O. Box 53 Hornbrook, Calif.

THIS LEASE, made and entered this 19th day of December, 1968, by and between Dave Snyder and Laura E. Snyder, husband and wife and James R. Clary and Adelaide S. Clary, husband and wife and Heirs, hereinafter called the Lessor without distinction as to number or gender, and Earl J. Templeman of 1301 California St., Santa Monica, California, hereinafter called the Lessee.

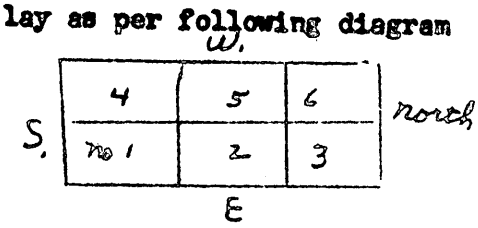
WITNESSETH: The parties hereto agree as folows:

1. The Lessor hereby Leases unto the Lessee and the Lessee hereby hires from the Lessor, for the purpose of conducting mining operations, those certain mining claims situated in the County of Jackson, State of Oregon, and more particularly described as follows:

Sec. 19 TWP 39 S Range 3 West, lying in Star Gulch area also known as the IRON HAT LODE commencing at tunnel Post 1 entrance and running 500' northerly direction to Post No.2 300' Westerly to Post 3 & 1500' Southerly to Post No.4 300' Easterly to Post No. 5, then 300' Easterly to Post No. 6, then 1500' Northerly to Post No. 7, then 300' Westerly.



AFTER CLAIM NO. 1, claims 2,3,4,5,& 6 lay as per following diagram



2. To have and to hold said leased mining claims, together with the appurtenances, rights, privileges and easements thereunto appertaining unto the Lessee, for the term of five years commencing on the 19th day of December 1968, and ending on the 19th day of December 1973.

Lessor agrees that Lessee may exercise optiom to extend this Lease a maximum of ten times of up to five years for each extension, by given written notice of intent to extend to the Lessor in the manner described herein at least thirty days prior to the termination date noted above or such other termination date as may be applicable at the time.

3. Lessee agrees to pay Lessor TEN PERCENTUM (10%) of all minerals; The amount of such payment shall be computed by Lessee every month, beginning one month after the commencement of this Lease and be tendered to the Lessee within thirty days after the date on which the computation is based.

4. Lessor, or his designee, shall have the right to audit Lessee's records for each six month period after payment for the period is made, provided (1) notice of intent to audit is given Lessee within thirty days after payment is made and (2) the audit is begin within sixty days after payment is made. Any adjustments in payment as may result from audit shall be made within thirty days after the audit report is given the Lessee, provided the Lessee gives no notice of objection to the report to Lessor within that same period. Where such notice is given, Lessee shall employ his own auditor who shall begin his audit within thirty days after the date of notice of objection. After the latter audit, both audit reports shall be used as the basis for a negotiated settlement.

5. Lessee shall perform all mining operations on the leased claim in an efficient and workmanlike manner. The intent of the Lessee to conform to the letter of the agreement as stated but because of climatic instability of the area being known to both parties it is here in agreed that the dates as set down shall be binding for so long as no undue climatic or any other unforseen cause delays the work plan and that if such should occur the time limits shall be extended only as required to make up such loss of time. Lessee may place personal property on the leased claim which he considers necessary to so performing.

6. The Lessee may terminate this lease at his sole discretion at any time during the period noted above, or any extension thereof, if he determines that commencement or continuation of mining operations on the claims described herein would be uneconomical. Such termination shall be effective fifteen days after notice of intent to terminate is made.

7. Lessee shall have the right to leave his personal property on Lessor's claims up to six months after the termination of this lease without obligation to the Lessor. This right of the Lessee shall accrue to him regardless of the manner in which this lease terminates.

8. Lessee shall be solely responsible, with respect to the Lessor, for all actions and deeds of himself, his employees, agents and invitees made on the leased claim, and shall not hold Lessor responsible for any loss of or to Lessee's personal property either from natural causes or caused by others. LESSOR CANNOT BE HELD RESPONSIBLE FOR LABOR LEIN OR OTHER INDEBTEDNESS INCURRED BY LESSEE.

9. Either party to this Lease may assign, or otherwise transfer to others, all or part of his interest in this lease at any time, provided that the terms herein contained shall be binding on the assignees and/or transferees. Notice of intent to so assign or transfer shall be given the other party hereto thirty days prior to the effective date of such assignment or transfer.

10. All notices, payments or other communications herein provided to be given, or which may be given, by either party to the other, shall be deemed to have been fully made when made in writing and deposited in the United States mail, certified and postage prepaid, and addressed as follows:

To the Lessor at David A. Snyder, 2000 Ashland Mine Road, at Ashland, Oregon, and James R. Clary, Box 141, Ashland, Oregon.

To the Lessee at 1301 California St., Santa Monica, California

Nothing herein contained shall preclude the giving of any such written notice by personal service. The address to which notices shall be mailed as aforesaid to either party may be changed by written notice given by such party to the other at least ten days prior to the effective date of such change. Such notice of change of address shall be made in the manner herein before provided.

11. The Lessor reserves the right to enter and inspect the leased claim, at reasonable times, and to make any necessary repairs to such of his property, real or personal, as may be located on the leased claim, or remove same from the leased claim.

12. The Lessee shall have the right during the existence of this Lease, unless otherwise prohibited by applicable law, to make alterations, attach fixtures and erect additions structures or signs upon the leased claim. Such fixtures, additions, structures or signs so placed in or upon or attached to the leased claim under this Lease shall be and remain the property of the Lessee and may be removed therefrom by the Lessee prior to the termination of this Lease or any extension thereof, or within six months after such termination.

13. The Lessor agrees that the Lessee, keeping and performing the covenants and agreements herein contained on the part of the Lessee to be kept and performed, shall at all times during the existence of this Lease peacably and quietly, have, hold, and enjoy the leased claim, without suit, trouble or hindrance from the Lessor, or any person claiming under Lessor.

14. Upon termination of this Lease, the Lessee will peaceably surrender to the Lessor the leased claim in as good order as when received, reasonable use and wear thereof , damage by earthquake, fire, public calamity, by the elements, by act of God, or by circumstances over which Lessee has no control, or alterations to the claim required by Lessee to perform mining operations,

or for which Lessor is responsible under this Lease, excepted. The Lessee shall have no duty to remove any improvement or fixture placed by him on the leased claim or to restore any portion of the leased claim altered by him, save and except in the event Lessee elects to remove any such improvement or fixture and such removal caused damage or injury to the leased claim, and then only to the extent of such damage or injury.

15. Time is of the essence of this Lease, and the terms and provisions of this Lease shall be binding upon and inure to the benefit of the heirs, executors, administrators, successors and assigns of the respective parties hereto.

16. Notwithstanding anything to the contrary contained herein, this Lease may be terminated, or its provisions amended or deleted, provided there is mutual consent of the parties hereto to such termination, amendment or deletion and such consent is expressed in writing.

17. If any portion of this Lease is in conflict with applicable law, such portion shall be null and void. Such conflict shall affect other provisions of this Lease only to the extent that the provision in conflict is inextricably entwined with other provisions. With the above exception, all other provisions shall be binding on the parties hereto as if they were agreed to separately, paragraph by paragraph, sentence by senbence, clause by clause, and phrase by phrase.

IN WITNESS WHEREOF, this Lease has been executed by the parties hereto as of the date first above written.

LESSOR

Dave Snyder

Laura E. Snyder

James R Clary

LESSEE

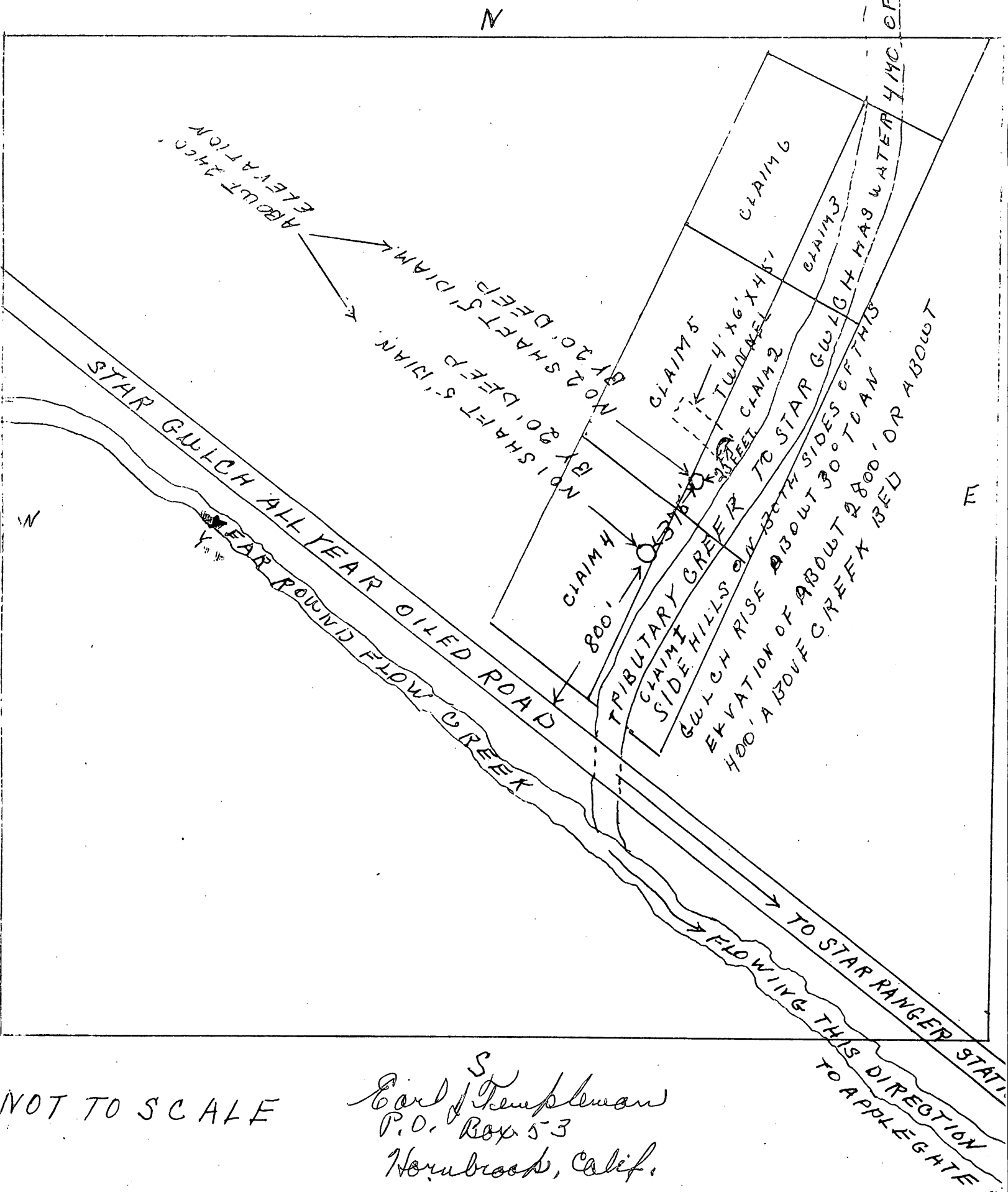
Earl J. Templeman

Earl J. Templeman
1301 California St.
Santa Monica, California

MAP NO 2

ENLARGED VIEW OF SECTION 19 TWP 39 S RANGE 3 W

IRON HAT MINE LYING IN STAR GULCH AREA



NOT TO SCALE

Earl J Templeman
P.O. Box 53
Hornbrook, Calif.

ASSAY CERTIFICATE

EXHIBIT NO 3

December 18 1968

Mr. Earl J. Templeman

Hornbrook, California

	Sample No.	Owner's Mark on Sample	GOLD		SILVER		TOTAL VALUE PER TON	PERCENTAGE OF			
			Ozs per Ton	Value per Ton	Ozs per Ton	Value per Ton					
C		Rear Tunnel #1 EL	.51	$17.85	1.90	$3.80	$21.65				
D		Rear Tunnel #2	.38	$13.30	.30	.60	$13.90				
B		Handel Rock.	.22	7.70	1.20	2.40	$10.10				
		3-Ft. Down #2 Shaft	.02	.70	Trace	- -	- .70				
A		Shaft #1-Side LE	.23	8.05	1.10	2.20	$10.25				

Carl Yates

Carl W. Yates Yreka, California ASSAYER

ASSAY CERTIFICATE

EXHIBIT NO 4

January 13 19 69

Mr. Earl J. Templeman

Box 53 Hornbrook, California

Sample No.	Owner's Mark on Sample	GOLD		SILVER		TOTAL VALUE PER TON	PERCENTAGE OF			
		Ozs per Ton	Value per Ton	Ozs per Ton	Value per Ton					
	Portal Face	.22	$7.70	.20	$-.40	$8.10				
	Portal Vein	.31	$10.85	.33	.66	$11.51				

NC

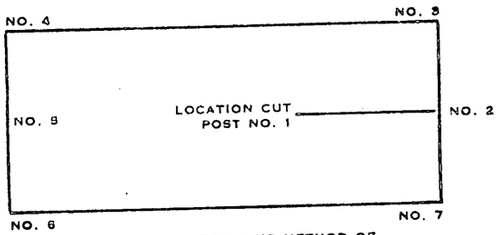
ASSAYER

FORM No. 880—NOTICE OF MINING LOCATION—LODE.

68-12249

Earl A. Tenebleau
P.O. Box 53
Hornbrook, Calif.

Notice of Mining Location



THIS DIAGRAM EXPLAINS METHOD OF DESCRIPTION OF CLAIM.

STATE OF OREGON,

County of JACKSON

APPLEGATE Mining District

EXHIBIT NO 5

NOTICE IS HEREBY GIVEN That the undersigned, having complied with the requirements of Chapter Six of Title Thirty-Two, of the revised statutes of the United States, and the laws of the above State, and the local customs and regulations of said District ha located and do hereby locate 1500 linear feet in length, and 600 feet in width on the (Name) lode, vein, ledge or deposit situated in the above State, County and Mining District, and further described as follows:

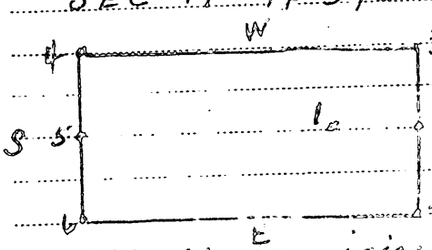
Commencing at a post marked No. 1 at the Discovery shaft (cut or tunnel), from thence

CLAIM #1

500 feet in a NORTHERLY direction to an end post marked No. 2, thence
300 feet in a WESTERLY direction to a corner post marked No. 3, thence
1500 feet in a SOUTHERLY direction to a corner post marked No. 4, thence
300 feet in a EASTERLY direction to an end post marked No. 5, thence
300 feet in a EASTERLY direction to a corner post marked No. 6, thence
1500 feet in a NORTHERLY direction to a corner post marked No. 7, thence
300 feet in a WESTERLY direction to said end post marked No. 2; hereby

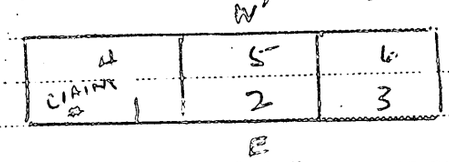
locating and intending to claim 1000 feet in a [illegible] direction from discovery to the SOUTH end line and [illegible] feet in the opposite direction from discovery to the NORTHERLY end line and [illegible] feet on each side of the middle of said lode or ledge, for the purpose of mining the same and claiming all the surface rights, privileges and minerals, with all dips, spurs [illegible] and [illegible] other rights granted by existing laws and customs. This claim is further described as follows (and state distance from natural object or permanent monument, Section, Township and Range, if possible):

SEC 19 TP 39S R 3W AND LYING IN THE STARGUICK AREA



CLAIMS # 2-3-4-5-6

The adjoining claims are joining claim #1 and are lying north and west of claim #1 as per following diagram



This notice is placed at discovery on post No. 1; posts are placed at each corner and both center ends, and the name of this lode and date of location are placed on all posts.

Located this 14th day of DECEMBER, A.D. 19 68.

Witnesses:

Clinton Mitchell
Tom Zeate
Andy Stamis

Dave Snyder
R. Clary

Locator.

68-12249

STATE OF OREGON }
County of } ss.

I, [illegible], do solemnly swear that I am a citizen of the United States of America (or have declared my intentions to become such), and that I am acquainted with the mining ground described in the notice of location, and herewith called the [illegible] ledge, lode, or claim; that the ground and claim therein described, or any part thereof, has not to the best of my knowledge and belief, been located according to the laws of the United States, and of this State, or if so located, that the same has been abandoned and forfeited by reason of the failure of such former locators to comply in respect thereto with the requirements of said laws and that I have sunk a discovery shaft upon said claim to a depth of [illegible] feet from the lowest part of the rim of said shaft at the surface—made a cut or cross cut or tunnel [illegible] a depth of ten feet—made an open cut six feet deep, four feet wide and ten feet in length along the lode, from the point of discovery, showing a lode or vein of mineral deposit in place.

[illegible]

Subscribed and sworn to before me, this [illegible] day of [illegible], 19[illegible]

[illegible]

[illegible]

E. [illegible]
CLERK AND [illegible]
BY [illegible]

68-12249

Mining Location
LODE + PLACER
(FORM No. 850)

Sakiven Rd. #1
Name of Claim.

[illegible]
[illegible]
Locators.

STATE OF OREGON, } ss.
County of [illegible]

I certify that the within instrument was received for record on the 20th day of [illegible] 1968, at [illegible] o'clock [illegible] M., and recorded in book [illegible] on page [illegible] Record of [illegible] of said County.

Witness my hand and seal of County affixed.

County Clerk—Recorder.

By [illegible] Deputy.

STEVENS-NESS LAW PUB. CO., PORTLAND

[illegible]

INDEXED

Necessary steps in locating a quartz claim.

1. Post notice of location at point of discovery.
2. Stake [illegible] discovery.
3. Dig location [illegible] 60 [illegible] of date of discovery.
4. File copy of notice [illegible] with county clerk or recorder for the county in which the claim is located. Filing fee is $1.00 per claim. Notice may be mailed in for recording. Notice should be recorded within 60 days from the posting of the notice on the claim.

Area and shape of a quartz claim.

A quartz claim can be not more than 1500 feet in length and can extend not more than 300 feet on either side of the center line (Fig. 1-A). A full sized quartz claim embraces an area of slightly more than 20½ acres. Although most claims are rectangular they may have a variety of shapes, the only requirement being that the end-lines be parallel. In the case of non-rectangular claims it should be noted that the end-lines need not be limited to 600 feet in length (Fig. 1-B).

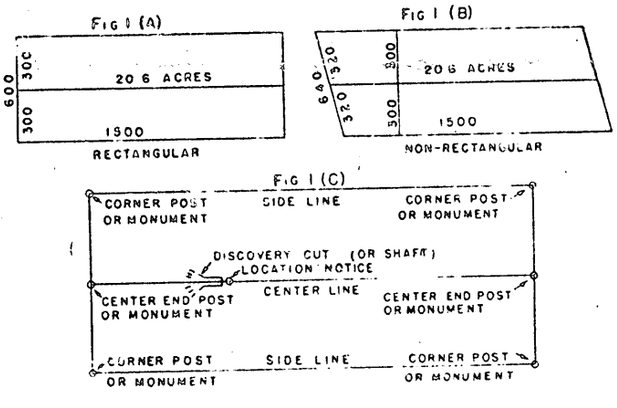
Requirements of a quartz claim (Fig. 1-C).

1. Location notice posted at or near point of discovery.
2. Discovery cut or shaft. Discovery cut must be at least 4 feet wide, 10 feet long and 6 feet high at the face. A discovery shaft must be sunk at least 10 feet deep from the lowest part of the rim.
3. Four claim corner posts, or monuments, and two center end posts, or monuments. All posts must be at least 4 inches square or in diameter, and must project at least 8 feet above the ground. Monuments of stone, or earth and stone, must be at least 2 feet in height.

Quartz or placer location.

Quartz claims are located where minerals occur in place in veins or lodes. Most metal mines are quartz locations.

Placer claims are located where minerals have been derived from rocks or veins to form deposits such as stream gravels and gold-bearing alluvium. Massive deposits of nonmetallic minerals such as limestone, building stone, and pumice are generally located as placer claims.



MME Form 7
(2/63)

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Date	Surname	Code
5/2/69	G Peterson	120
5/2/69	Kirkemo	120
5/5/69	Gulsgard	
5/4	[illegible]	
		220

AIRMAIL

MAY 8 1969

Mr. Earl J. Templeman
P. O. Box 53
Hornbrook, California 96044

Re: OME-6780 (Gold and Silver)
Earl J. Templeman
Iron Hat Mine
Jackson County, Oregon

Dear Mr. Templeman:

A careful study of your application for financial assistance to explore the subject property and of other information available to us indicates that the probability of disclosing significant ore reserves on the property is not sufficiently promising to justify Government participation in the proposed exploration. Accordingly, we regret to inform you that your application for assistance is denied.

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

Sincerely yours,

Harold Kirkemo (glu)

Harold Kirkemo, Chief
Office of Minerals Exploration

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

ECPeterson/bsl 5/2/69

MME Form 7
(2/63)

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5/2/69	Sidems	120
		120
		220

May 2, 1969

Memorandum

To: The File

From: Edward C. Peterson
Office of Minerals Exploration

Subject: OME-6780 (Gold and Silver)
Earl J. Templeman
Iron Hat Mine
Jackson County, Oregon

Justification for Denial of Application

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

Samples taken by the examiner of the most favorable material exposed in an adit assayed only a trace of gold and silver which suggests the property has little economic potential.

There has been no recorded production from the property, and no ore reserves are inferred.

I concur with the field examiner 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 5/2/69

OME

IN REPLY REFER TO

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
U.S. Court House, Rm. 656
West 920 Riverside Avenue
Spokane, Washington 99201
April 23, 1969

OFFICIAL COPY
O. M. E.
RECEIVED
APR 25 1969

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	130
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HR	170
	120

Memorandum

To: Chief, Office of Minerals Exploration

From: Willard P. Puffett, Geologist, Region I

Subject: Application examination report
OME-6780 (Gold and Silver)
Earl J. Templeman
Iron Hat Mine
Jackson County, Oregon

On-Site Exam Report

INTRODUCTION

I made an examination of the Iron Hat mine on Wednesday afternoon, April 9, 1969. Mr. E. J. Templeman, the applicant, and Mr. Ray Clary met me at noon in Ashland, Oregon, and we drove to the property in the applicant's car. We made an examination of the underground workings, took some samples, visited a proposed millsite, and then returned to Ashland about 5:30 p.m.

The applicant proposes to explore a zone of pyritic and silicified andesite by drilling several diamond drill holes at intervals of 100 feet both north and south and east and west from a short adit. He hopes that the drilling will delineate a broad zone of mineralized rock which he can mine profitably by open-pit methods. If the work is successful, the applicant plans to erect a flotation mill to treat the ore. He anticipates that he can successfully mine and concentrate rock whose minimum dollar value in gold and silver is $12.00 per ton.

RECOMMENDATION

It is recommended that the application be denied. Assay results on samples of heavily pyritized rock indicate only trace amounts of gold and silver. There is no reason to believe that the proposed exploration will find rock with a higher content of precious metal.

LOCATION AND ACCESSIBILITY

The applicant's property is in the SE$\frac{1}{4}$ sec. 19, T. 39 S., R. 3 W. W.M., Jackson County, Oregon. The property can be reached from Jacksonville, Oregon, by driving south on Oregon Highway 238 for about 8 miles to Ruch, Oregon; from Ruch, follow a hard-surfaced county road south about 6 miles to the mouth of Star Gulch; from here follow a gravel road west for 2$\frac{1}{2}$ miles along the north side of Star Gulch. A foot trail leads 800-1,200 feet north to the abandoned shafts and adit near the bottom of a valley (fig. 1). The altitude at the abandoned adit is approximately 2,150 feet according to the contours on the topographic map of the area (Ruch, Oregon-California).

GEOLOGY

According to Wells (1940), the bedrock in the vicinity of the applicant's property is Paleozoic or older metavolcanic rocks that include lava flows, flow breccias, and some intrusive rock. Later maps show that these rocks are part of the Applegate Group of late Triassic age (Wells and Peck, 1961). The topography is characterized by steep timbered slopes with narrow valley bottoms. Local relief is as much as 2,000 feet.

Outcrops of bedrock are small and widely separated and most of the natural exposures are several hundred feet upslope from the valley bottoms. The only exposures in the valley bottom are in the walls of two shallow shafts, a prospect pit, and an adit that is 47 feet long.

The wall rock in the shafts, prospect pit, and adit is light gray, dense, siliceous andesite that contains abundant pyrite or marcasite. Streaks of yellow and brown stain the rock, but in general the stain is only a thin film because the oxidation has been slight. A quartz vein, 18 inches thick, is exposed in the shallow prospect pit above the southernmost shaft (fig. 1). The vein strikes N. 65° W. and dips 85° N. A possible extension of this vein is exposed in a road cut several hundred feet to the west. There are no sulfides in the vein.

Andesite crops out as thick ledges west of and about 200 feet upslope from the adit and shafts. This rock is not silicified and pyrite is rare. There are no other outcrops between this exposure and the valley bottom.

There are two caved adits on the east side of the valley at about the same altitude as the adit shown in figure 1. Dump material near the adits is silicified and pyritic andesite very similar to that

exposed in the adit and shallow shafts. It seems probable that there is a broad pyritized zone in the andesite that has been explored on both sides of the valley; however, the limits and orientation of this zone have not been delineated.

Three samples were taken of the rock in the adit. One was from the more heavily pyritized area across the face; another was from pyritic rock in the north wall about 21 feet from the portal; and the third was from iron-stained fault gouge in a flat-dipping fault about 20 feet from the portal. Except for the fault gouge, the rock is so hard that it is difficult to take a channel sample; hence, the samples of wall rock that were collected were chips from a general area, but it is believed these are a good representation of the mineralized rock. All these samples assayed only a trace of gold and a trace of silver.

Assay data submitted by the applicant indicate that the rock in the adit contains 0.22-0.51 ounces gold and 0.20-1.90 ounces silver per ton. These results are significantly higher than those obtained from the OME samples. The difference in the assay results suggest a possible difference in relative competence of the assayer, but this is only conjectural.

It seems reasonable that the OME assay results closely reflect the true precious metal content of the rock. If high values of gold and silver are in the rock, more efforts would have been made in the past to develop the mine. The prospect is convenient to roads, the adit and shaft are several years old, and obviously other prospectors in the region must have examined the rock. The fact that nothing has been done on the property for many years strongly suggests that the precious metal content of the rock is low.

APPLICANT'S PROPOSAL

The applicant proposes to explore the property by drilling several vertical diamond drill holes at intervals of 100 feet both north and south and east and west from the adit. These holes, estimated by him to be from 100-150 feet long, would test the extensions and determine the orientation of the pyritized zone. If the exploration proved a large tonnage of gold and silver ore, he would plan to mine the deposit by open-pit methods.

SUMMARY AND CONCLUSIONS

The zone of pyritic and siliceous andesite on the applicant's property has been explored by shallow shafts and short adits. No ore has been produced. Samples of the rock indicate only trace amounts of gold and silver. There are no indications of other valuable minerals on the prospect. Participation by OME in further exploration of the property is not warranted.

Willard P Puffett

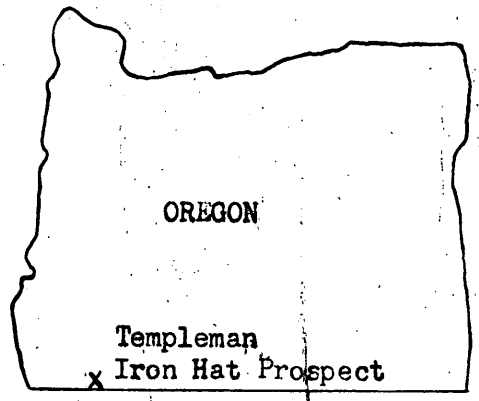
Willard P. Puffett

Enclosure
Distribution:
OME
USGS(SRO)
Docket
Puffett

REFERENCES CITED

Wells, F. G., and others, 1940, Preliminary geologic map of the Grants Pass quadrangle, Oregon: Oregon Dept. of Geol. and Min. Industries.

Wells, F. G., and Peck, D. L., 1961, Geologic map of Oregon west of the 121st meridian: U. S. Geol. Survey Misc. Geol. Inv. Map I-325.



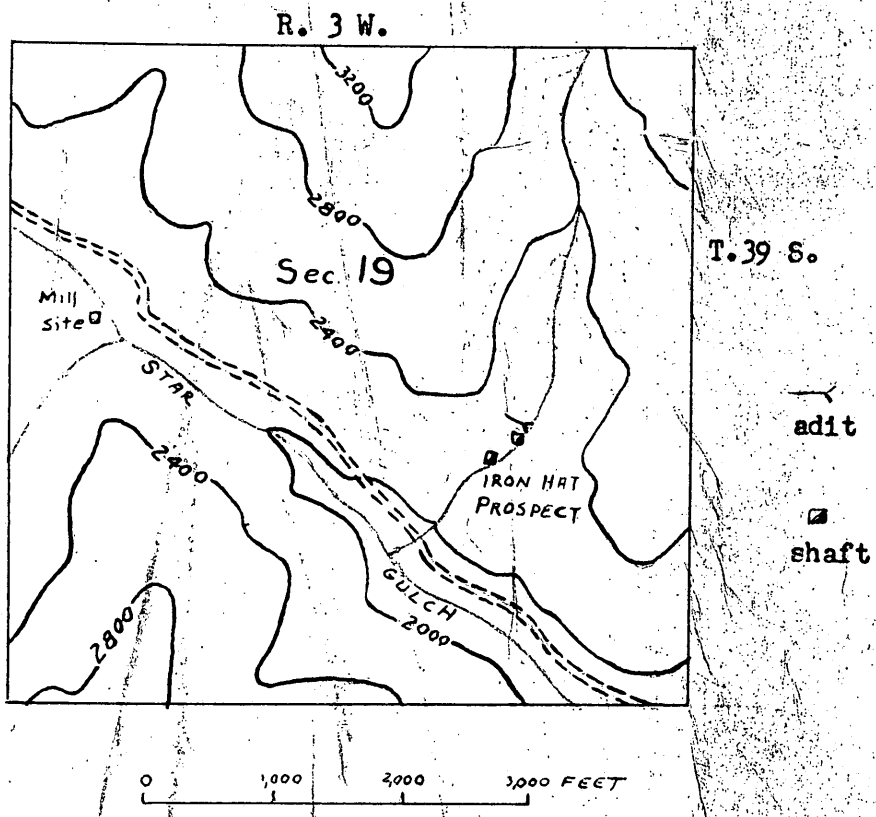


Figure 1. Index map showing location of Templeman's Iron Hat Prospect. Contours enlarged from Ruch Oregon-California topographic map.

MME Form 7
(2/63)

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		120
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		120M

AIRMAIL

APR 4 1969

Mr. Earl J. Templeman
P. O. Box 53
Hornbrook, California 96044

Re: OME-6780 (Gold and Silver)
Earl J. Templeman
Iron Hat Mine
Jackson County, Oregon

Dear Mr. Templeman:

The subject application for exploration assistance has been reviewed in our Washington office. Although additional information is required, including submittal of supporting geological data, and bids from three independent drilling contractors to support your cost estimate, we are nevertheless referring the application to Mr. D. R. MacLaren, Field Officer, Region I, Office of Minerals Exploration, U. S. Geological Survey, U. S. Courthouse, Room 656, West 920 Riverside Avenue, Spokane, Washington 99201.

For your information, allowable costs under an OME contract do not include full book value allowances to the operator for his equipment used on a contract. Rather, for each piece used the operator is compensated by allowing depreciation to the extent of 1/60th of its fair market value or its book value, whichever is less, for each month used. If the equipment is rented, a fair rental charge per month is allowed.

In addition, the Government pays its share of the costs at the end of each month after a voucher for the costs incurred has been submitted and approved. It usually takes two or three weeks to process such a voucher. An Applicant, therefore, should have sufficient funds readily available to pay all the costs of the project for the first two or three months.

Mr. MacLaren will contact you shortly and make arrangements for a field examination of your property.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Acting Chief
Office of Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
Mr. Peterson
OME Region I

ECPeterson/gla 4-4-69

MME Form 7
(2/63)

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		220
		120M

AIRMAIL

APR 4 1969

Memorandum

To: Field Officer, Region I

From: Acting Chief, Office of Minerals Exploration

Subject: OME-6780 (Gold and Silver)
Earl J. Templeman
Iron Hat Mine
Jackson County, Oregon

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

The application is poorly prepared and lacks the geological evidence to support the proposed work. Normally, we would request additional information before referral to the field; however, in this case, you have indicated that you can examine the property when in the vicinity on other OME business.

If a contract is recommended, the Applicant should be requested to furnish the necessary drilling bids, and clarify the property ownership. Many of the estimated costs are either considered high or are not allowable.

Harold Kirkemo (gla)

Harold Kirkemo

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
Mr. Peterson
130

ECPeterson/gla 4-4-69

April 3, 1969

Mr. Earl J. Templeman
P. O. Box 53
Hornbrook, California 96044

Subject: OME-6780

Dear Mr. Templeman:

Your application for exploration assistance, dated March 21, 1969, submitted to our office at Spokane, Washington, has been assigned Docket No. OME-6780.

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

Sincerely yours,

Harold Kirkemo
Acting Chief,
Office of Minerals Exploration

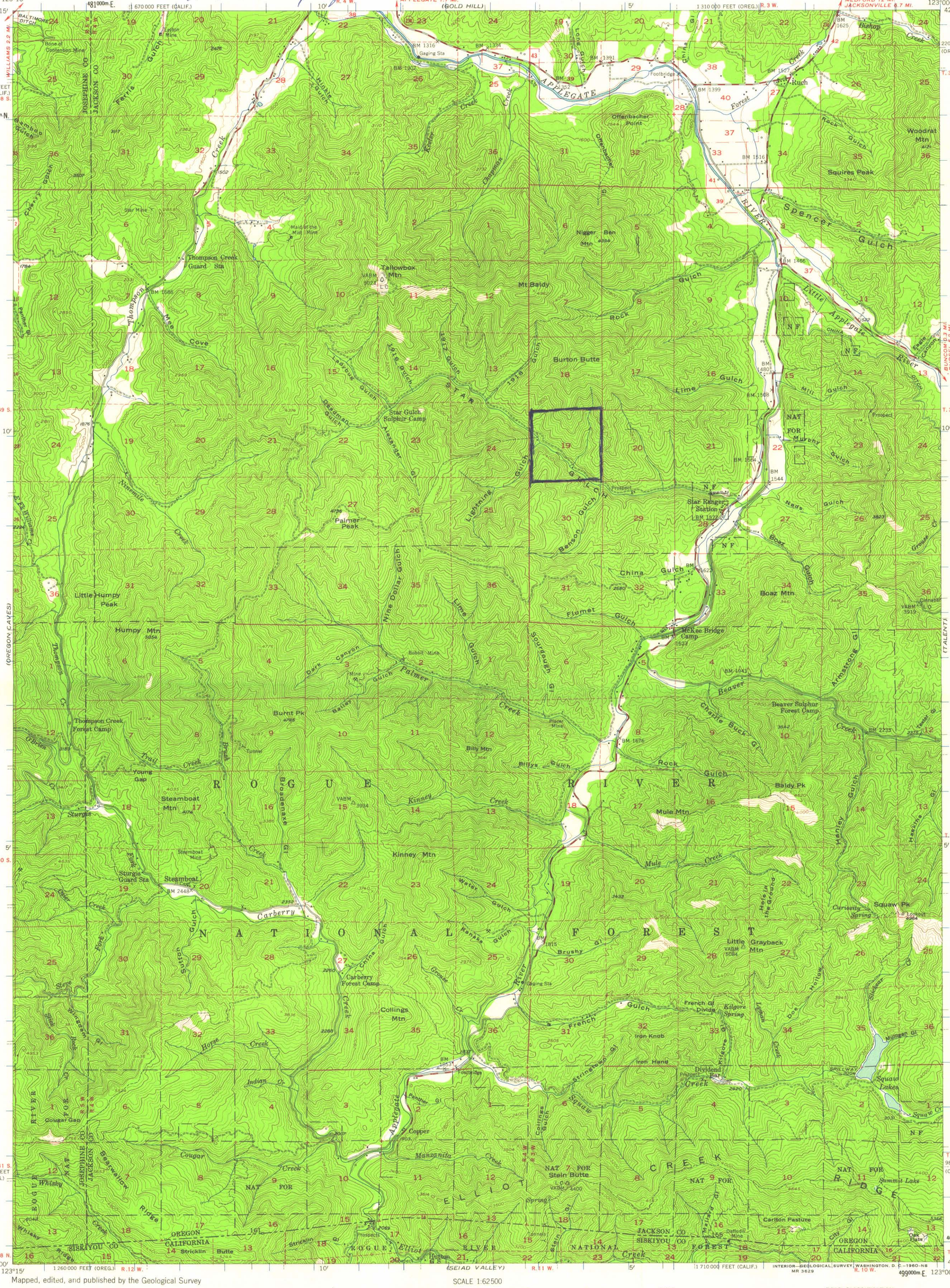
Copy to R-I

Earl L. Templeman
P.O. Box 53
Hornbrook, Calif.

MAP NO 1
EXHIBIT 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RUCH QUADRANGLE
OREGON—CALIFORNIA
15 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and State of Oregon

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1951–52. Field check 1954

Polyconic projection. 1927 North American datum
10,000-foot grids based on Oregon coordinate system, south zone and California coordinate system, zone 1
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

Dashed land lines indicate approximate locations

Unchecked elevations are shown in brown

TRUE NORTH
MAGNETIC NORTH
20°
APPROXIMATE MEAN DECLINATION, 1954

SCALE 1:62500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 80 FEET
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

OREGON
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

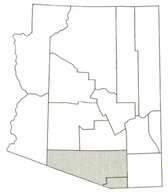
OFFICIAL
GOVERNMENT AGENTS
USGS Topographic Maps
USC & GS Aeronautical Charts
SWEM'S
217 EAST MAIN ST.
MEDFORD, OREGON

RUCH, OREG.—CALIF.
N4200—W12300/15

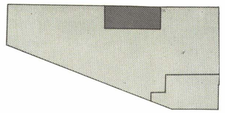
1954

UNIVERSITY OF ARIZONA
ARIZONA BUREAU OF MINES
J. D. FORRESTER, DIRECTOR

INDEX MAP OF ARIZONA
Showing Location of Pima and Santa Cruz Counties.

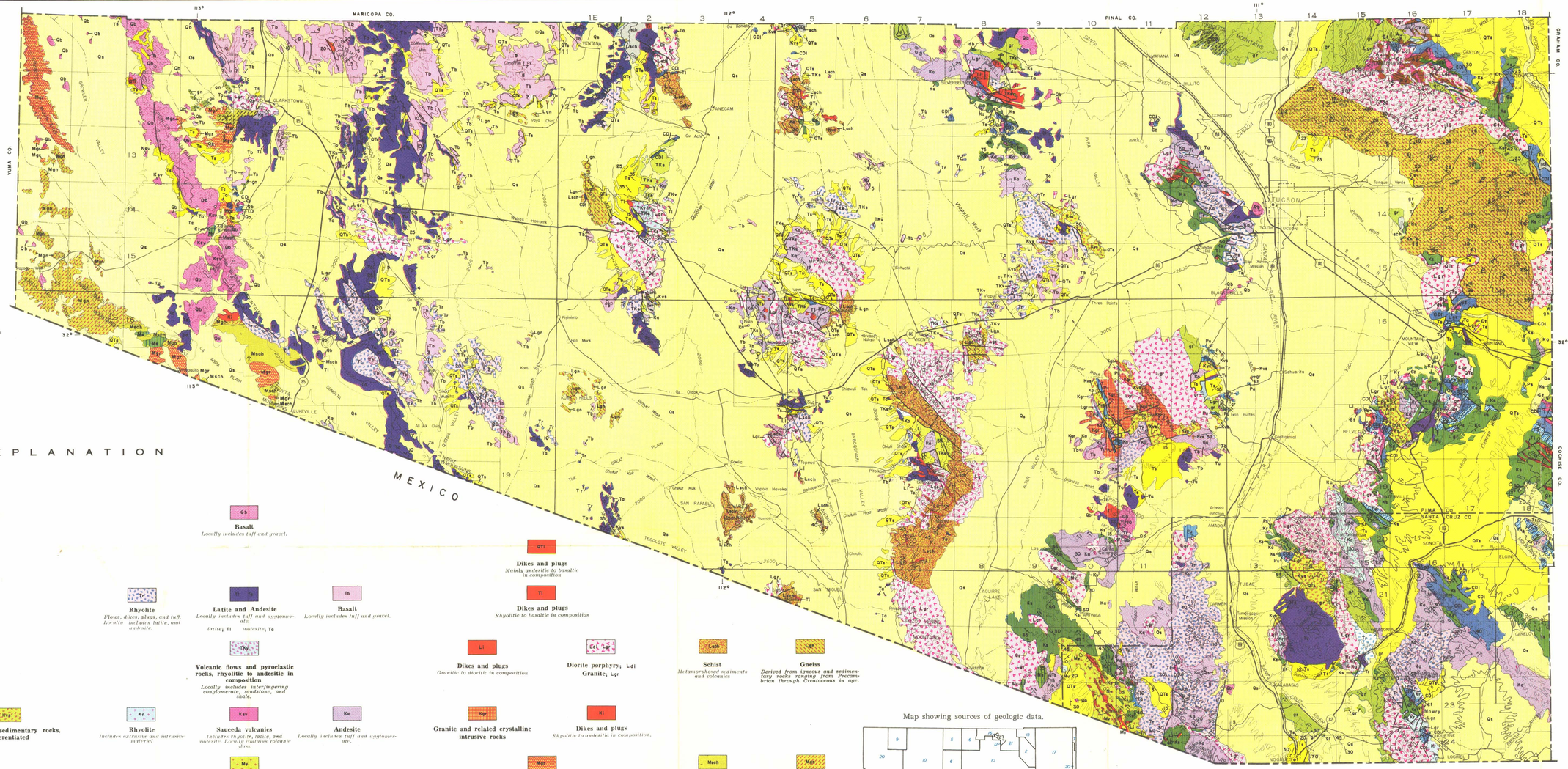


Map showing sources of topographic data.



U.S. Geol. Survey Topographic Map of Arizona (1956)

Army Map Service, Tucson, Arizona 2° sheet (1959)



EXPLANATION

QUATERNARY

- **Qs** — Silt, sand, and gravel
- **QTs** — Sand, gravel, and conglomerate
- **Qb** — **Basalt** — *Locally includes tuff and gravel.*

TERTIARY

- **Ts** — **Sandstone, shale, and conglomerate** — *Includes some volcanic rocks.*
- **Tr** — **Rhyolite** — *Flows, dikes, plugs, and tuff. Locally includes latite, and andesite.*
- **Tla, Ta** — **Latite and Andesite** — *Locally includes tuff and agglomerate.* *latite;* Tl *andesite;* Ta
- **Tb** — **Basalt** — *Locally includes tuff and gravel.*
- **QTT** — **Dikes and plugs** — *Mainly andesitic to basaltic in composition*
- **Tl** — **Dikes and plugs** — *Rhyolitic to basaltic in composition*

LARAMIDE

- **TKs** — **Sandstone, shale, and conglomerate** — *Includes some volcanic rocks.*
- **TKv** — **Volcanic flows and pyroclastic rocks, rhyolitic to andesitic in composition** — *Locally includes interfingering conglomerate, sandstone, and shale.*
- **Li** — **Dikes and plugs** — *Granitic to dioritic in composition*
- **Ldi, Lgr** — **Diorite porphyry;** Ldi **Granite;** Lgr
- **Lsch** — **Schist** — *Metamorphosed sediments and volcanics*
- **Lgn** — **Gneiss** — *Derived from igneous and sedimentary rocks ranging from Precambrian through Cretaceous in age.*

CRETACEOUS

- **Ks** — **Shale, sandstone, conglomerate, and limestone, locally metamorphosed**
- **Kvs** — **Volcanic and sedimentary rocks, undifferentiated**
- **Kr** — **Rhyolite** — *Includes extrusive and intrusive material*
- **Ksv** — **Sauceda volcanics** — *Includes rhyolite, latite, and andesite. Locally contains volcanic glass.*
- **Ka** — **Andesite** — *Locally includes tuff and agglomerate.*
- **Kgr** — **Granite and related crystalline intrusive rocks**
- **Ki** — **Dikes and plugs** — *Rhyolitic to andesitic in composition.*

MESOZOIC UNDIVIDED

- **Mz** — **Sandstone, shale, and conglomerate locally metamorphosed**
- **Mv** — **Volcanic rocks** — *Flows, dikes, and plugs of andesitic to rhyolitic composition. Locally includes interfingering conglomerate, sandstone, and shale.*
- **Mgr** — **Granite and related crystalline intrusive rocks**
- **Mch** — **Schist** — *Metamorphosed sediments and volcanics*
- **Mgn** — **Gneiss**

PERMIAN

- **Pu** — **Permian limestone, sandstone, and shale**

CARBONIFEROUS AND DEVONIAN

- **CDt** — **Carboniferous and Devonian limestone, shale, sandstone, and quartzite**

PALEOZOIC UNDIVIDED

- **Pzl** — **Limestone, shale, sandstone, and quartzite**

CAMBRIAN

- **Ꞓt** — **Bolsa and Troy quartzites and Abrigo and related limestones**

YOUNGER PRECAMBRIAN

- **Ꞓu** — **Apache group** — *Mescal limestone, Dripping Spring quartzite. Barnes conglomerate, Pioneer shale, and Scanlan conglomerate. Locally includes some Cambrian Troy quartzite.*

YOUNGER PRECAMBRIAN TERTIARY

- **D** — **Diabase**

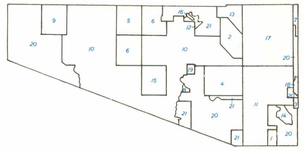
OLDER PRECAMBRIAN

- **sch** — **Schist**
- **gn** — **Granite gneiss**
- **gr** — **Granite and related crystalline intrusive rocks**

SYMBOLS

- Contact, showing dip
- Fault, showing dip — *Dashed where approximately located. U, upthrown side; D, downthrown side*
- Thrust fault (T, upper plate)
- Axis of anticline
- Axis of syncline
- Strike and dip of beds
- Strike and dip of foliation
- Mine
- Quarry

Map showing sources of geologic data.



1. Baker, R.C., Univ. of Mich.
2. Brown, W.H., Univ. of Ariz.
3. Bryant, D.L., Univ. of Ariz.
4. Cooper, J.R., U.S. Geol. Survey
5. Cosner, O.J., Armstrong, C.A., and Page, H.G., U.S. Geol. Survey
6. Cosner, O.J., and Page, H.G., U.S. Geol. Survey
7. Creasey, S.C., U.S. Geol. Survey
8. Fair, C. and Kurtz, W.I., Univ. of Ariz.
9. Gilluly, J., U.S. Geol. Survey
10. Heindl, L.A., U.S. Geol. Survey
11. Jones, W. R., Bowles, G., and Hedlund, D., U.S. Geol. Survey
12. McClymonds, N.E., and Ruff, A., Univ. of Ariz.
13. Moore, R.T., Ariz. Bur. of Mines
14. Moran, W.R., Union Oil Co. of Calif.
15. Page, H.G., Ellis, J.M., and Heindl, L.A., U.S. Geol. Survey
16. Richard, K. and Courtright, J.H., Am. Smelting and Ref. Co.
17. Tolman, C.F., Moore, B.N., Butler, B.S., and Hernon, R.M., U.S. Geol. Survey
18. Tyrell, W.W., Yale Univ.
19. Wargo, J.G. and Kurtz, W.I., Univ. of Ariz.
20. Wilson, E.D., Ariz. Bur. of Mines
21. Wilson, E.D. and Moore, R.T., Ariz. Bur. of Mines

GEOLOGIC MAP
OF
PIMA AND SANTA CRUZ COUNTIES, ARIZONA

PREPARED BY THE

ARIZONA BUREAU OF MINES
UNIVERSITY OF ARIZONA
TUCSON, ARIZONA

BY

Eldred D. Wilson, Richard T. Moore, and Robert T. O'Haire.

Scale $\frac{1}{375,000}$

10 0 10 20 30 Miles

10 0 10 20 30 Kilometers

Contour interval 500 feet
datum is mean sea level

1960