[redacted]

ENSE MINERALS EXPLORATION ADMINISTRATION
Control Slip

## CONTROLLED DOCUMENT

DMEA Docket No. 4428

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|---|---|---|---|
| To: | 400 | Date | 8/20/56 |
| To: | Oper Comm | Date | 8/24-56 |
| To: | F.E. Johnson | Date | 8-27-56 |
| To: | 130 | Date | 1-14-57 |
| To: | 110 | Date | 1-14-57 |
| To: | 100 | Date | 1-14-57 |
| To: | 225 | Date | 1-14-57 |
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## DO NOT DETACH

## CONTROLLED DOCUMENT

DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4428

Application (Denied)
(Withdrawn
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

**Left Side**

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
✓ Owner's Consent to Lien
Subordination Agreement
Leases and assignments of leases
✓ Application and attachments
(3) Envelope for maps

**Right Side**

Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
✓ On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

**Left Side**

Folder No. 2: (In chron. order) Interim Summary Reports by W. O. Engineers

**Right Side**

Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator
Docket No. DMEA-
Contract No. Idm-E
Contract Date

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Cook, State of Oregon, ~~described as follows:~~1/

in a sales agreement, notice of which, dated the 20th Day of June, 1956, and recorded in Book 77 Page 133, official records of said county.

See Annex "A" certified copy of Notide of Sale;

See Annex "B" Photostatic copy of original Sales Agreement.,

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. 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;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

NONE

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ 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 cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

RECEIVED
AUG 27 1956

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

April 15, 1956

RECEIVED
AUG 20 1956

4428

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: New DMEA application (Mercury)
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

Dear Mr. Selfridge:

Enclosed are three copies of an application from Clyde R. Bellows, 9700 - 24th Avenue NW., Seattle 7, Washington

Mr. Bellows proposes to explore for mercury in the Ochoco mining district in secs. 27 and 29, T. 14 S., R. 20 E., W.M., Crook County, Oregon. The property, known as the Mother Lode Quicksilver Mine, comprises seven claims which the applicant controls by right of purchase contract. Mr. Bellows proposes to explore by bulldozing five trenches across the general trend of the known veins. The trenches will range in length from 600 to 1,000 feet, totaling 4,300 feet, and will range in depth to more than 20 feet. From the trench bottoms it is proposed to drill a maximum of 43 auger holes each to a depth of 100 feet, totaling 4,300 feet. The applicant estimates that his proposed project will cost $45,110 of which the Government's share will be 75% or $33,832.50.

In reviewing the application, it was found that the Consents to Lien are not dated and that the following documents mentioned in the application are missing:

Annex "A", Notice of Sale
Annex "C", Washbaugh Map No. 3
Annex "E", believed to be a magnetic anomaly map by Bath and Cook
Index map of State of Oregon
Detailed map of Crook County, Oregon

In order to save time and because we have fieldmen scheduled for other examinations in the area in the immediate future, we expect to examine this property on the same trip. We have written to Mr. Bellows (copies of our letter enclosed) for these documents.

There is considerable information on the Ochoco district available in the files, but we can find nothing under this property name; thus, a field examination should be made.

Yours very truly,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: USBM (2)
Alvord

xxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

August 15, 1956

Mr. Clyde R. Bellows
9700 - 24th Avenue NW
Seattle 7, Washington

Re: New DMEA application (Mercury)
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

Dear Mr. Bellows:

This will acknowledge receipt of your application dated August 6, 1956. In reviewing your application it was found that the Consents to Lien were not dated, and that the following documents, to which reference is made in the application, are missing:

Annex "A", Notice of Sale
Annex "C", Washbaugh Map No. 3
Annex "E", Map (magnetic anomaly?) by
Barth and Cook
Index map of the State of Oregon
Detailed map of Crook County, Oregon

Although we have sent your application to the Washington, D. C. office without waiting for these missing documents, we should have them. We are returning the Consent to Lien forms. Please fill in the date in the space indicated above the signatures, and return to this office, along with four copies each of the missing documents listed above.

Yours very truly,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosure

cc: DMEA (3)
USBM (2)
Alvord

RECEIVED

MF-103
(Revised April 1952)

# UNITED STATES DEPARTMENT OF THE INTERIOR
## DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

RECEIVED
AUG 7 1956
U. S. G. S.
SPOKANE, WASH.

## APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

*Not to be filled in by applicant*

Docket No. 4428
Metal or Mineral Mercury
Date Received 8-20-56
Estimated Cost $45,110.00
Participation (Government %)

## INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Clyde R. Bellows
9700 24th Avenue N. W.
Seattle 7 Washington

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
See attachment Page 1, Paragraph 3 (a).

(*b*) State any mine name by which the property is known. Mother Lode Quicksilver Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
purchaser under contract.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See Annex "A","B", the contract; and consent to lien.

(*e*) If you own the land, describe any liens or encumbrances on it
None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See above.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

RECEIVED
AUG 20 1956

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore cinnabar--mercury

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 18 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

[x] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

## 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.

Dated August 6, 1956

Clyde R. Bellows
(Applicant)

By

**Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.**

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

# SUPPLEMENTS TO FORM MF-103

Application for Aid in an
Exploration Project, Pursuant to
DMEA Order 1, under the Defense
Production Act of 1950, as amended.

by

Clyde R. Bellows
9700 24th Avenue N. W.
Seattle 7, Washington

August 6, 1956

3. Applicant's property rights.

(a) This property consists of the following seven unpatented mineral claims located in Sections 20 and 29 T14N, R20E, Ochoco Quicksilver District, Crook County, Oregon:

(1) Jack Knife, as more particularly described in the Notice of Claim recorded May 9, 1954 in Book 7 of Mines at page 256, Records of Crook County, Oregon.

(2) Merry Widow, as more particularly described in the Notice of Claim recorded May 5, 1954 in Book 7 of Mines at page 255, Records of Crook County, Oregon.

(3) Western Belle, as more particularly described in the Notice of Claim recorded September 14, 1954 in Book 7 of Mines at page 325, Records of Crook County, Oregon.

(4) Eastern Belle, as more particularly described in the Notice of Claim recorded September 14, 1954 in Book 7 of Mines at page 327, Records of Crook County, Oregon.

(5) Canyon Creek No. 1, as more particularly described in the Notice of Claim recorded May 16, 1955 in Book 7 of Mines at page 419, Records of Crook County, Oregon.

(6) Canyon Creek No. 2, as more particularly described in the Notice of Claim recorded May 16, 1955 in Book 7 of Mines at page 417, Records of Crook County, Oregon.

(7) Canyon Creek No. 3, as more particularly described in the Notice of Claim recorded August 25, 1955 in Book 7 of Mines at page 551, Records of Crook County, Oregon.

(b) Mother Lode Quicksilver Mine.

(c) Purchase under contract.

(d) 1. Notice of Sale (Annex "A").

2. Sales agreement attached (Annex "B").

3. Enclosed Form 203 attached - Consent to Lien

(e) None

(f) See (a) above.

4. Physical Description

(a) From existing maps, it is known that approximately 2260 feet of drifting on various levels has been done in the past. (See Annex "C", Washabaugh Map #3). These workings are all caved. From surface dumps it is known that there are other old workings not shown on the above map. Some raising also has been done but the amount is not known.

Considerable work has been done on the surface in the form of shallow trenches. Three of these have attained a depth of 20 feet or more below grass roots and have exposed mineralization. One has been quite extensively worked with some minor production.

I have had no interest in any of the above work with the exception of a couple of dozer cuts and some cleaning in old cuts to permit access for examination and sampling.

All open cuts are accessible though some of the old ones have caved so much that exposures are obliterated. All underground workings are caved and no production facilities of value are present.

(b) Past records of production are either non-existent or unavailable. State of Oregon annual reports show a production of from 100 to 1000 flasks, having been reported from this area and it is probable that the majority came from this property.

Our ore reserves are shown on Map No. 102. Sampling of surface by my associate, Mr. Norman, and myself were used in calculating surface grade. Underground samples from the Washabaugh map taking only those in the Champion tunnel and the Lucky Strike tunnel (See Map No. 103 and Annex "C") were used, with considerable dilution added. We show 60,000 tons in one block averaging 6.2 pounds of mercury per ton.

Additional surface work will be necessary in order to increase this reserve. It is considered impractical to attempt any rehabilitation of existing old workings or to attempt new crosscuts and drifts.

(c) The geology of the property has not yet been worked out to our satisfaction, in that all underground workings are inaccessible.

The high ground southeast and above the workings is capped by Columbia River (?) basalt. The soil manteling the area of interest is abundantly strewn with talus, boulders from this basalt. Some minor basalt dikes and pendants or remnants have been exposed in one or two of the open cuts.

The host rock for the cinnabar mineralization is a highly decomposed andesite into which the cinnabar has migrated through minute fractures and seams. In some places disseminated mineralization has been noted. The general trend of these fractures, as observed in the open pits, fairly well coincides with those zones shown by Washabaugh on his map. (See Annex "D"-- Report by D.D. Norman, Geologist, for supplementary information).

The primary reason for exploring this property is to ascertain the extent and grade of the mineralization as is exposed in a few pits which have reached a depth of 20 feet or more below the surface. It would be too much to expect that this is one large mineralized zone; however, it seems highly fortuitous that three pits which penetrated to 20 feet have exposed cinnabar in commercial quality without there being considerable quantities present. It is my opinion that the subsequently proposed project is th e best means by which we can obtain the most information about the mineralized zone in order to:

1. determine the controlling geological structures.
2. determine the areal extent and attitude of mineralized structures or zones.
3. determine the vertical extent of the mineralized zone.
4. permit accurate and representative sampling.
5. evaluate the commercial potential of the property.

Further, the project is designed to explore the significance of the negative magnetic anomaly as shown on Bath and Cook's map. (See Annex "E").

A surface map (No. 101), ore reserve and surface sample map (No. 102), underground sample map (No. 103). cross section (No. 104), and the other above mentioned maps and reports are also attached here for further information, none of which need be returned.

(d) An index map of the State of Oregon is attached as well as a detailed map of Crook County, Oregon for aid in location and orientation.

The mine is reached by the following route: from Prineville east on U.S. highway #26 for 16 miles, a good blacktop highway; then east for 9 miles to the Ochoco Ranger Station, a good year-round maintained gravel road; then 7 miles southeast up a moderate grade to the summit on a good year-round maintained gravel road; from the summit 1¼ miles south along the Lookout Mt. road to the mine, a narrow dirt road not maintained in the winter.

Thus, the property is 33¼ miles from Prineville, Oregon where all necessary supplies and residences are available. It also brags of an independent railroad connecting with main lines.

(e( Manpower for mining and general day labor is available in the district. Material and supplies of all but those requiring specific design are available in Prineville. All things not available there can be acquired out of Portland, Oregon, 182 miles northwest of the mine.

REA power is installed only as far as the Ochoco Ranger Station, about 8 miles from the mine.

Abundant water for all mining andpersonnel needs is available on the property.

"5-A"

August 7, 1956

Resume of Education and Past Experience C. R. Bellows

| | |
|---|---|
| Age | 36, married, 2 pre-school children. |
| 1932-1938 | Summers spent as laborer and odd jobber in various Idaho mining camps. |
| 1938-1939 | Student, Mining Engineering, Washington State College |
| 1942-1946 | United States Marine Corps. Commissioned March 1943. Presently Captain, USMCR. |
| 1946-1949 | Student, University of Washington. B.S. degree in Geology March, 1949. |
| 1948 | Summer work as diamond drill helper and driller in Metaline District, Washington, drilling for lead-zinc type ore bodies. |
| 1949-1952 | Day Mines, Inc., Wallace, Idaho. Sampler to Senior Mine Geologist at Tamarack, Hercules, Sherman and Dayrock mines during various times. Approximately 6000 tons monthly production of lead, zinc, silver ores at each property. Work consisted of underground and surface geological mapping, calculation of ore reserves, sampling and development planning. |
| 1952-1953 | Ass't. Chief Engineer |
| 1953-1954 | Chief Geologist - San Francisco Mines of Mexico, Ltd. Chihuahua, Mexico. Work consisted of supervision of underground surveying, sampling, geological mapping, underground and surface exploration, diamond drilling and calculation of ore reserves. Production: 65,000 tons per mongh from fissure type lead, zinc, copper deposits with minor amounts of gold and silver. |
| 1954-1955 | Consulting Geologist, Seattle, Washington |
| 1955-Present | In January 1955 formed and managed own company, acquired lease and operated uranium mine in Colorado, under name of Clyde Uranium Mines. Sold all holdings late in 1955; profitable. Acquired present property in spring of 1956. |

5. The Exploration Project

-(a) Cinnabar - Mercury.

(b) This project is to be a series of bulldozer and carryall cuts made at right angles to the regional trend as well as the specific strike of known mineralization. It is expected that, based on previous surface work, these cuts will need to be at least 20 feet deep to penetrate the overburden and a portion of decomposed bedrock before definite geologic structures and mineralization will be exposed.

Drilling is proposed for the purpose of determining the depth and grade of any mineralization found in the cuts and to test the possible existence of cinnabar at depths impractical to reach from surface trenching. (See Maps Nos. 101, 102, 103, and Cross section 104).

(c) See application. (30 days---18 months).

(d) I will be in full charge of all operations. a personal summary is attached.

6. Estimate of costs

(a) Independent contracts

(1) Bulldozer and carryall work.

The best bid submitted is enclosed showing $12.00 per hour for a D-8 with an additional $2.00 per hour for the carryall. The operator visited the property and has done work there before. The next closest bid was $14.00 for a D-7.

I calculated 1334 hours at $14.00, a total open-cut cost of $18,860.00.

(2) The drilling program will be carried out by Jannsen Drilling Company of Portland. They have done some drilling on the Independent Mine just a few hundred yards north of our property. They are familiar with the type material to be penetrated and its peculiar problems.

They have found that a drive-down core barrel works the best on vertical holes. An auger drill is the best for inclined holes.

The material is too decomposed to core with diamond drills, and too wet and "pastey" to wagon drill.

They will use the drive-down core barrel and guarantee core recovery. Their rental is $14.00 per hour and they have given consistent footage of from 130 to 175 feet per day. This would average about $2.00 per foot for the 5,000 feet or $10,000.00 total drilling cost.

If he is successful in acquiring an auger drill, he will use it at the same rate as above.

(b) Labor, supervision, consultants.

| | | |
|---|---|---|
| (1) | Common labor men (2) at $1.75/hr. for 1344 hours. | $4704.00 |
| (2) | One sampler at $400 per month--6 mo. | 2400.00 |
| (3) | Supervision, including geologist. $600 per month for 6 months. | 3600.00 |
| (4) | Engineer, consultant at $100.00 per month for 6 months. | 600.00 |
| | Total (b) | $11,304.00 |

(c) There will be no power or water costs.

| | | |
|---|---|---|
| (1) Fuel for pickup and camp use. | $300.00 | |
| (2) Sample sacks-400 at 25¢ each | 100.00 | |
| (3) Sampling picks, moils, etc. | 25.00 | |
| (4) Misc. tools | 35.00 | |
| Total (c) | $460.00 | $460.00 |

(d) Operating equipment

| | |
|---|---|
| (1) Pickup owned by us--new, present value, $2200.00. Use allowance.- | 220.00 |

(e) Rehabilitation and repairs.

One building needing rehabilitation for use as crew accommodations. Total cost $1,000.00

(f) None

(g) Miscellaneous

| | |
|---|---|
| (1) No maintenance and repair cost as all major work on contract. | |
| (2) Analytical work. 500 determinations for Hg at $4.00 each. | $2,000.00 |
| (3) Accounting to be done by local CPA at $60.00 per month plus set-up charge of $50.00. Total | 410.00 |
| (4) Workmen's compensation, liability insurance, payroll taxes, - total | 900.00 |
| Total (g) | $3,310.00 |

(h) None

| | |
|---|---|
| Total estimated project costs | $45,110.00 |

7. (a) Yes.

(b) Money. ($11,277.50).

Please return

DEPARTMENTAL

Sept 14 th 19 5 11

George J. Sullivan
President

Dear Sir:

Following is a brief report on the cinnebar deposit that was inspected on September 14th and 15th by myself accompanied by yourself and one of the owners of the property, Frank Reid of Redmond, Oregon.

## GENERAL

The property in discussion consists of ~~20~~ 7 unpatented claims situated in Section 20 and 29, R 20 E, T 14 N, Crook County, Oregon and recorded at the Crook County Court House, Prineville, Oregon. The property is accessible by traveling 12 miles east of Prineville on U. S. Hwy 26, a good asphalt highway, thence approximately 6 miles south on dirt roads.

The claims are located at an elevation of ~~6000~~ 5700 to 6300 ft. and are heavely timbered with ponderosa pine. The area is one of heavy rainfall and there is abundant snowfall during the winter months. The roads are kept open during the winter months by the Forest Service, except for a short length that could be easily maintained privately. A short portion of the present road to the claims is in poor condition, but very little work would be necessary to render it fit for the movement of heavy trucks.

## GEOLOGY

Most of the area included in the claims is covered by a mantel of from 2 to 8 ft of soil, but outcrops, old mine workings and recent stripping operations show the rock type to vary from an andesite to basalt, both of which in places have weathered and altered highly to a soft, porous rock, due to the breakdown and kaolinization of the feldspars.

Originally the property was mined for gold and the mine workings shown on the accompanying map were driven to prospect for gold. The mineralization followed in this attempt, consisted of very narrow seams of pyrite, somewhat "gougey", and exhibiting very little favorability toward gold depositions in the opinion of this writer. Most of the old workings are now inaccessible due to considerable sloughing and caving of the soft, altered rock.

In 1942 the property was reopened and an R. F. C. loan was granted to explore this property by continuation of the 6100 level eastward in an attempt to localize any downward extension of mineralization present on the 6260 level. According to verbal reports said work intersected a zone of good grade cinnebar mineralization. Several attempts have been made by the present owners to locate any data in regard to this work, but to date have been unsuccessful.

Mr. Reid and his partners gained control of the property by restaking the ground after the ground became free through failure of the required assessment work. Since acquiring the ground the present owners have done a considerable amount of stripping to expose any cinnebar deposition and it is the mineralization exposed by this stripping that was examined and sampled by the writer.

The mineralization consists of cinnebar, pyrite, and magnetite, and is confined to zones of fracturing the fractures being very thin, not exceeding ¼ inch in width and accuring very close together with the cinnebar and associated minerals deposited along these fractures. The zones of fracturing do not appear to follow any definite pattern as near as could be determined in the short time spent examing the property.

As stated, the host rock for the mineralization consists of segregated andesite and basalt, most of the rock exposed being highly decomposed as described previously although containing zones of very dense, hard unaltered andesite.

Several channel samples were cut across the widest portion of cinnebar mineralization exposed by the stripping and the assays obtained as run by the Union Assay Office, Salt Lake City are shown on the accompanying map which is self-explanatory. As shown these channel samples were cut across a 45 ft. width and assayed 0.32% Hg. or 6.4 lbs. of Hg. per ton, a value of $21.70 per ton at present prices, across the tostal width.

On level 6200, the data available shows a 77.8 width of mineralization assaying 0.80% Hg. or 17.8 lbs. per ton, a gross value of $60.50 per ton at present market prices. The accuracy of these assays can only be assumed since the workings are not presently accessible to study and sample the mineralization and nothing is known of the sampling technique employed by the sampler.

Several strip pits on the property show mineralization and although not sampled by myself, several samples were cut by the owners and reported to be equal in grade to those cut by myself in the one exposure sampled.

As stated previously, this writer believes the ore to occur in random zones of fracturing that from all indicatons ore locally of small diameter but are closely spaced. The verticle extent of these zones can only be determined by drilling or reopening the old workings, but should this extent be short it is still quite possible that the zones of fracturing themselves extend to an appreciable depth below those known to exist.

Cinnebar mineralization is known to exist over an area of 1500ft. by 600 ft. as exposed in the stripping that has been done. It can certainly not be expected that there will be mineralization of a mineable grade over this entire area but it is reasonable to assume a certain amount of mineable grade within the area and it is very heartening to have such a considerable areal extent of mineralization. No attempt has been made to calculate the tonnage of mineable grade material because of the limited knowledge as to both the lateral and vertical extent of the ore. However, I am sure that the information here presented warrants, on its own merit, without any assumptions, that the property is deserving of an exploration program to determine the extent and grade of the deposit and there is at present nothing to indicate the impossibility of the existence of a sizeable body of mineable cinnebar mineralization.

A stripping and drilling program are a "must" on this property and a thorough study of the economics of the extraction and milling techniques to be used must also be extensively explored should the property be considered for mining.

Respectfully submitted,

D. D. Norman

D. D. Norman

C. R. BELLOWS, GEN. MGR.
CLYDE MINING COMPANY
9700 24th Avenue N.W.
Seattle 7, Washington

RECEIVED
AUG 20 1956

SALES AGREEMENT

THIS AGREEMENT, made and entered into this 27 day of June, 1956, by and between Frank Reid, Earl Zimmerman and Roger Golliard, hereinafter called the Sellers, and Clyde R. Bellows, hereinafter called the Buyer, WITNESSETH:

That for and in consideration of the sum of THREE HUNDRED THOUSAND ($300,000.00) DOLLARS to be paid as hereinafter set out, and in consideration of all the terms and conditions of this agreement to be kept and performed by the parties, the Sellers agree to sell and the Buyer to buy the following described mineral claims located in the State of Oregon, County of Crook, to-wit:

1. Jack Knife, as more particularly described in the Notice of Claim recorded May 9, 1954 in Book 7 of Mines at page 256, Records of Crook County, Oregon.

2. Merry Widow, as more particularly described in the Notice of Claim recorded May 5, 1954 in Book 7 of Mines at page 255, Records of Crook County, Oregon.

3. Western Belle, as more particularly described in the Notice of Claim recorded September 14, 1954 in Book 7 of Mines at page 325, Records of Crook County, Oregon.

4. Eastern Belle, as more particularly described in the Notice of Claim recorded September 14, 1954 in Book 7 of Mines at page 327, Records of Crook County, Oregon.

5. Canyon Creek No. 1, as more particularly described in the Notice of Claim recorded May 16, 1955 in Book 7 of Mines at page 419, Records of Crook County, Oregon.

6. Canyon Creek No. 2, as more particularly described in the Notice of Claim recorded May 16, 1955 in Book 7 of Mines at page 417, Records of Crook County, Oregon.

7. Canyon Creek No. 3, as more particularly described in the Notice of Claim recorded August 25, 1955 in Book 7 of Mines at page 551, Records of Crook County, Oregon.

The consideration of $300,000.00 shall be payable as follows: the sum of $10,000.00 down upon the execution and delivery of this agreement, the receipt of which is hereby acknowledged by the Sellers; and the balance of $290,000.00 shall be payable without interest as follows: a sum equivalent to ten per cent (10%) of all smelter re-

turns on all valuable ores and minerals taken from said mining claims; provided, however, that the Buyer shall pay to the Sellers minimum payments of $9,000.00 per year at the rate of $1,000.00 per month without interest for nine months of each year beginning March 15th of each year and a similar payment of $1,000.00 on the 15th of each month for the next eight succeeding months, the first of the minimum payments to be made on March 15, 1957. The above are minimum payments only, and the Buyer reserves the right to pay all or any part of the unpaid balance at any time. It is further understood that the Buyer may place this agreement in escrow with a bank of his choice, and the Sellers agree to execute and deliver to said escrow agent a deed in warranty form as hereinafter provided for the above described mining claims, when so requested; provided, the Buyer shall pay all escrow and collection charges.

It is agreed that the Buyer shall be entitled to the possession of the property covered by this agreement for the purpose of commencing the mining operations as herein provided, immediately upon the execution and delivery of this agreement.

The Sellers warrant that each owns an undivided one-third interest in said mining claims free and clear of all encumbrances, and agree to furnish to the Buyer or his attorney, within a reasonable time afterthe execution of this agreement, an abstract of said mining claims, prepared and certified by the Central Oregon Title & Loan Company of Prineville, Oregon, up to the date of this agreement; and the Buyer, or his attorney, agrees to notify the Sellers, their agents or attorney, in writing within 30 days after the receipt of said abstract, of any defects in the title of Sellers to said mining claims, and Sellers shall be given a reasonable time thereafter to correct any such defects in the title before being held in breach of this agreement.

It is understood and agreed that this agreement to purchase

shall include the above described mining claims, together with the underground workings, dumps and ores thereon contained, and all camp sites and buildings located thereon.

The Buyer, in consideration of this agreement, agrees as follows:

1. That he will not assign this agreement without the prior written consent of the Sellers, but the Sellers agree that they shall not withhold said written consent unreasonably.

2. The Buyers agree to comply with the laws of the United States of America and of the State of Oregon, with respect to the payment of withholding taxes, payroll taxes, or other taxes or assessments imposed either by Federal, State, County or Municipal, and moreover, to post notices as may be prescribed by law with respect to workmen's compensation, and to in all respects operate said property in a legal manner so as to hold the Sellers harmless and free and clear of any and all liability of every kind and character arising out of the operations on said mining claims, and to indemnify and save harmless the Sellers from and against any and all claims and demands whatsoever arising out of said operations.

3. To indemnify and save the Sellers harmless from all labor liens, mechanic's liens and material liens, and other liens or charges upon the premises.

4. To mine said properties in a continuous manner in accordance with good mining practices and with due diligence, and minimum payments, hereinabove set forth are irreducible minimums, and both parties desire to assure the maximum output of all valuable minerals at the same time complying with all health, safety regulations and requirements of the Federal, State and local governments.

5. The Sellers reserve the right to have free and full access to the mining properties for the purpose of inspecting the operations

at all times, which inspections shall be conducted in a reasonable manner.

6. The Buyer agrees to furnish to the Sellers on or before the 15th day of each succeeding month, complete records for the previous month's operation, showing: an account of work completed for the premious month to enable the Sellers to file the necessary affidavits as hereinafter provided; the amount of ore sold, and its value, during the preceeding month; any report of assays made during the preceeding month; the reports or results of all drilling conducted; royalty payments as specified herein as payments on this contract.

7. The Sellers shall file the annual work affidavits required by law to be filed on such claims, within the time and in the manner required by law, and the Buyer for this purpose shall make available to the Sellers on or before the last day of May of each year, such of the Buyer's records of expenditures that may be useful in the preparation of said affidavit; and upon filing of said affidavit, the Sellers agree to furnish the Buyer with certified copies thereof.

Time is of the essence of this agreement, and if the Buyer shall have fulfilled all the terms and conditions contained herein, and made the payments provided herein, then and in that event the Sellers agree to furnish to the Buyers, his heirs and assigns, a deed in warranty form for said mining claims, free and clear of all encumbrances, except such encumbrances as shall be suffered or placed thereon by the Buyer. Further, that during the term of this agreement, the Buyer shall have the right to peaceful possession of the above premises without any interferance from or by the Sellers, their heirs or assigns.

In the event that the Buyer shall fail to make the payments herein provided at the times and in the manner provided, or shall fail to keep each and all of the covenants contained in this agreement, then at the option of the Sellers, the Sellers may declare a

forfeiture of this agreement, retain all moneys paid as liquidated damages for the breach of this contract, re-enter upon said premises and take possession thereof and operate the same free and clear of any right, title or interest of the Buyer. Provided, however, that when the Sellers shall desire to declare this contract forfeited for reason of an alleged breach by the Buyer, then the Sellers agree to notify the Buyer in writing of any claimed breach or default or failure to perform by the Buyer, by addressing a communication in writing to the Buyer at his address at 9700 24th N. E., Seattle 7, Washington, and shall give the Buyer a period of thirty days after the maining of said notice, as above described, by United States Mail with postage prepaid and addressed to the Buyer at the above address, in which to remedy said default or breach; and upon failure of the Buyer to correct or to remedy said default or breach within the said period of thirty days, then this agreement shall be forfeited as hereinabove rovided.

It is further agreed that in the event that it becomes impossible for the Buyer to operate said mining property at at least an eight per cent (8%) return on his capital investment, then the Buyer may, upon giving the Sellers thirty days' notice, make an accounting to them of all ores stockpiled, total sales of ore, and total expenses, and after having accounted to the Sellers for payments they are entitled to from the ore sold and stockpiled, then the Buyer may abandon the contract and have no further liability thereunder, and the Sellers may retain all payments made hereunder as liquidated damages.

A waiver of any breach or default shall not constitute a waiver of any succeeding breach or default by the Buyer.

The terms and provisions of this agreement are binding on the respective heirs, administrators, executors, successors and assigns

of all the parties hereto.

IN WITNESS THEREOF, the parties hereto have set their hands the day and year first above written.

Earl P. Zimmerman

Roger Gaillard

SELLERS

BUYER

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 1/11 | Chapman | 400 |
| 1/11 | Martin | 400 |
| 1/14 | Selfridge | 130 |
| | [illegible] | 110 |
| 1/14 | Mittendorf | 100 |
| 1/15 | CW | 220 |

JAN 15 1957

Mr. Clyde R. Bellows
9700 24th Avenue, N. W.
Seattle 7, Washington

Re: Docket No. DMEA 4428 - Mercury
Mother Lode Quicksilver Mine
Crook County, Oregon

Lamb
Kiilsgaard

Dear Mr. Bellows:

Your application for aid for an exploration project and other data available to us in Washington concerning the above referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting the occurrence of mercury mineralization on this property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Administration program and for bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

TLChapman:am 1-11-57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG I - NWDist
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

| Date | Surname | Code |
|---|---|---|
| 1/10 | Chapman | 400 |
| | Martin | 400 |
| | | 120 |
| | | 110 |
| | | 100 |
| | | |
| | | |

January 10, 1957

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $45,110.00
Docket No. DMEA 4428 - Mercury
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

Denial of the subject application is recommended by this Division based on the following information:

1. The applicant, Clyde R. Bellows, requested exploration assistance in the amount of $45,110.00 on August 6, 1956, for bulldozer trenches, and drive-down core-barrel or augur drilling.

Applicant: The applicant is Mr. Clyde R. Bellows, 9700 24th Avenue, N.W., Seattle, Washington

Property: The property is owned by Frank Reid, Earl R. Zimmerman, and Roger Golliard and consists of 7 unpatented lode mining claims as follows:

| Name | Book No. | Page No. |
|---|---|---|
| Jack Knife | 7 | 256 |
| Merry Widow | 7 | 255 |
| Western Belle | 7 | 325 |
| Eastern Belle | 7 | 327 |
| Canyon Creek No. 1 | 7 | 419 |
| Canyon Creek No. 2 | 7 | 417 |
| Canyon Creek No. 3 | 7 | 551 |

Located in Crook County, Oregon and held by the applicant under a Sales Agreement dated June 20, 1956. The claims are in sections 20 and 29, T. 14 S., R. 20 E., in the Ochoco Mining District.

Geology: The property is underlain chiefly by quartz latite flows, which have been penetrated by irregular tongues and masses of basalt and andesite dikes.

Where exposed the latite and andesite have been intensely altered to soft friable material composed mostly of kaolin mixed with quartz grains.

Cinnabar, associated with quartz, opal and calcite, fills small irregular branching fractures and veinlets. These fractures, veinlets and stringers are only a few feet long, from mere films to an inch in width.

Workings: Existing maps indicate that about 2,260 feet of underground drifting and crosscutting on various levels were driven in the past. Old dumps indicate other underground work. All the old workings are caved.

Past Production:

There are no accurate data on the production of the property and the surrounding area. Estimates run from 100 to 1,000 flasks, most of it probably coming from this property. All indications are that the old Operators mined whatever ore there was of an economic grade.

Comments and Conclusions:

Of 18 samples taken by the examining engineers the highest showed 1.41 pounds per ton. The Field Team concludes that there is minimum possibility of finding a large low grade ore body as hoped for by the applicant, and that no target in the area warrants Government participation. The Commodity Divisions of the Geological Survey, and the Bureau of Mines concur in these conclusions.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

TLChapman:am
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

January 10, 1957

MEMORANDUM

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From: Iron and Ferro-Alloys Division, DMEA

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Docket No. DMEA 4428 - Mercury
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

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Comments and Conclusions:

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W S Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED DEC 27 1956 D.M.E.A.

December 27, 1956

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: Assistant Chief, Branch of Base Metals

Subject: Review of Field Team examination report, Docket No. DMEA 4428 (mercury), Clyde R. Bellows, Mother Lode Quicksilver Mine, Crook County, Oregon, $45,110.00.

The applicant proposed to explore for a large low-grade mercury deposit by bulldozing and drilling at an estimated total cost of $45,110.00.

Examination of the property by E. W. Parsons, Bureau of Mines, and D. C. Alvord, Geological Survey, revealed that the chances were poor for discovery of small high-grade bodies or a large low-grade deposit.

I concur with the recommendation of the Field Team that the application be denied.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

IN REPLY REFER TO:

RECEIVED
DEC 26 1956
D.M.E.A.

December 26, 1956

Re: DMEA 4428
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team Report.

The Field Team has examined the applicant's property and recommended denial of his DMEA application. Denial is based on the absence of a worthwhile exploration target.

Field Examiners, on a well-prepared map, show that exploration would test an area in which there would be little chance of finding a large low-grade deposit. Numerous samples taken by the examiners gave negative or negligible amounts of mercury. Moreover, the exploration would be in large part over areas previously mined out by underground workings, where ore bodies were known to be small.

In view of field examiner findings I concur with the Field Team and recommend denial of the application.

T. H. Kiilsgaard

T. H. Kiilsgaard

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

RECEIVED DEC 17 1956 D.M.E.A.

December 12, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4428 (Mercury)
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

Dear Mr. Selfridge:

Enclosed are four copies of an examination report written by E. W. Parsons, mining engineer, Bureau of Mines, and D. C. Alvord, geologist, Geological Survey, on the Mother Lode Quicksilver mine, Crook County, Oregon.

Transmittal of this report has been delayed pending receipt of check assays of four samples cut at locations from which the applicant's samples had assayed considerably higher. The sample locations and the assays made by Abbot A. Hanks, Inc., of San Francisco, California, are shown on plate 1 accompanying the report. The check assays were made by the Willis H. Ott Metallurgical Laboratories of Seattle, Washington. The results of the two sets of assays are:

| Sample No. | Hanks' assays | Ott's assays |
|---|---|---|
| 302-B | 0.2 lbs./T. | Nil |
| 343-B | 0.2 do. | Nil |
| 310-B | 0.2 do. | 0.6 lbs./T. |
| 333-B | 0.6 do. | 1.41 lbs./T. |

The examiners conclude that previously known small high-grade ore bodies have been already mined out. Their sampling indicates that the chance of discovering other small high-grade bodies or a large low-grade deposit is poor; therefore, they recommend that the application be denied.

Reviewed by
DMEA OPERATING COMMITTEE
12-21-56
(date)

ON-SITE EXAM

The results of the check assays do not justify changing the recommendation of the examiners with which the Field Team concurs.

By Field Team, Region I, NW Dist.

Wing G. Agnew

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald R. MacLaren

Donald R. MacLaren, Acting Member
U. S. Geological Survey

Enclosures(4)
cc: USBM(2)
USGS(SRO)
Alvord

DMEA

RECEIVED DEC 17 1956 DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

November 9, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: D. C. Alvord, Geologist, U. S. Geological Survey and
E. W. Parsons, Mining Engineer, U. S. Bureau of Mines

Subject: Examination Report, Docket No. DMEA-4428 (Mercury), Clyde R. Bellows, Mother Lode Quicksilver Mine, Crook County, Oregon

## INTRODUCTION AND SUMMARY

An application for Government aid to explore for a large low-grade mercury deposit was received from Mr. Clyde R. Bellows on August 7, 1956. The property was examined on the afternoon of the 21st, and on the 22nd and 26th of September in company with R. D. Sample, Geologist, Geological Survey. Mr. Bellows was on the property on the 21st and 26th of September.

The examination consisted of a general reconnaissance of the accessible workings, rough geologic mapping of the cuts, and fairly broad sampling to determine the presence or absence of a large low-grade mercury deposit.

Available subsurface maps indicate that the high-grade cinnabar ore bodies in the area of proposed exploration have already been mined to the surface. Samples taken on the surface show that the area does not have a potential for large low-grade deposits. As a worth-while exploration target is lacking, a denial of the application is recommended.

## RECOMMENDATION

It is recommended that the application be denied.

## APPLICANT

Clyde R. Bellows
9700 24th Avenue, N. W.
Seattle 7, Washington

Reviewed by
DMEA OPERATING COMMITTEE
12-21-56
(date)

Mr. Bellows received a B. S. degree in geology in 1949. Since that time he has been retained as sampler, assistant chief engineer, and chief geologist on medium- and large-sized mining operations both within and outside the United States. For the past 2 years he has been a consulting geologist and small-mine operator.

Mr. Bellows no doubt is qualified to supervise an exploration program such as he has applied for. He states that he would be able to meet his share of the expenses of such a project.

## LOCATION AND ACCESSIBILITY

The Mother Lode mine is in secs. 20 and 29, T. 14 S., R. 20 E. W. M., Ochoco Mining District, Crook County, Oregon. It is just below the north face of Lookout Mountain whose summit is 6,791 feet above sea level. It is reached from Prineville, Oregon by traveling east 16.2 miles on U. S. Highway 26 ("blacktop") to the junction with the Lookout Mountain road (gravel), thence turning right and traveling northeast 8 miles to the Ochoco Ranger Station, thence turning right and traveling southeastward 7.5 miles to the road summit, thence turning right and traveling southwestward 1 mile to the property. The roads to the property are maintained year-round excepting the last mile, which is a narrow poorly maintained dirt road.

## PROPERTY RIGHTS

The property consists of seven unpatented lode mining claims which are recorded in the Crook County Recorder's office at Prineville, Oregon. Clyde R. Bellows holds the property under a purchase agreement with the owners dated June 20, 1956.

The claim owners are Frank Reid, Earl R. Zimmerman, and Roger Golliard who staked the claims during 1954 and 1955. Claim data is as follows:

| Name | Book | Page |
|---|---|---|
| Jack Knife | 7 | 256 |
| Merry Widow | 7 | 255 |
| Western Belle | 7 | 325 |
| Eastern Belle | 7 | 327 |
| Canyon Creek No. 1 | 7 | 419 |
| Canyon Creek No. 2 | 7 | 417 |
| Canyon Creek No. 3 | 7 | 551 |

## LITERATURE

The geology of the Ochoco Mining District, including brief descriptions of the Mother Lode Quicksilver mine, is given in the following:

1) Wilkinson, W. D., 1940, Geology of the Round Mountain Quadrangle, Oregon: Dept. of Geology and Mineral Industries, State of Oregon, Planimetric geologic map at 1:96,000 and report on back side.

2) Gilluly, J., Reed, J. C., and Park, C. F., Jr., 1933, Some mining districts of eastern Oregon: U. S. Geological Survey Bull. 846-A, p. 120-122.

## DESCRIPTION OF THE PROPERTY

The mine workings are on the steep north slope of Lookout Mountain at an altitude of about 6,000 feet. The slope is covered by a fair growth of large ponderosa pine. The climate is characterized by fairly dry summers and moderately wet snowy winters.

The mine is developed by at least six adit tunnels (pl. 1) all of which are now caved at or near their portals. The total extent of these workings is not known but in 1930, on the main adit level alone, 1,500 feet of drifts, several raises, and three stopes were open (Gilluly, Reed and Park, 1933, fig. 20). It is estimated from maps submitted by the applicant that at least 2,250 feet of drifting on various levels has been done on the property.

Surface workings include 15 or more prospect pits and dozer trenches. Some of the trenches are about 10 or 15 feet deep, the deepest being the Dragline and Main cuts (pl. 1). The walls of many of the trenches are sloughed, but the applicant has recently re-exposed the bedrock in the more important trenches.

A small habitable two-room cabin is located about 800 feet north of the Dragline cut. All other buildings on the property are in various states of disrepair.

## PRODUCTION

Production to 1930 was about 50 flasks of mercury (Gilluly, Reed, and Park, 1933, p. 121). In 1936 or 1937 the Reconstruction Finance Corporation made a loan on the property and eventually took it over. In 1941 the Gilkey Brothers of Seattle took a lease on the property from the RFC with an option to purchase. Machinery was installed and there was some production, reported to have been about 150 flasks. No definite production information is available. It seems certain that at least 200 flasks of mercury, and possibly more, have been produced from the property.

## GEOLOGY

The property is underlain chiefly by quartz latite flows of the Clarno formation of Eocene Age. In places irregular-shaped tongues and masses of dark fine-grained basalt have invaded the quartz latite flows; andesite dikes cut the rocks locally.

Where exposed, the quartz latite and andesite dike rocks have been intensely altered to soft friable material composed chiefly of kaolin intermixed with considerable amounts of quartz grains. Above the water table the altered rocks are buff to cream colored but below the water table they are pale gray-green in color. Rust brown to maroon colored diffusion bands of iron oxides are common in the altered rock above the water table; in places this coloration makes visual detection of cinnabar difficult. The original structural and textural features are generally obscured by the intense alteration. The basalt masses are largely unaltered except in places along their borders and along some fractures.

The attitude of the flows has not been determined on the property but 2 miles north of the Mother Lode they dip 4° eastward (Wilkinson, 1940). In the same report Wilkinson describes a zone of fracturing and faulting, 4 miles long, that trends N. 60° E. across the Mother Lode property. Within this zone Wilkinson observed a series of faults and fractures trending N. 62° E., N. 10° E., and N. 45° E. This pattern of fracturing was noted during the examination, particularly in the Main and Dragline cuts (pl. 1).

Cinnabar, together with quartz, opal and calcite fills small irregular, branching fractures and veinlets that usually occur in zones of steeply dipping subparallel veinlets distributed over a zone a few inches to several feet wide. Individual veinlets are only a few feet long and range in width from mere films to as much as an inch. The strike length of the individual zones was not determined but the widest zone observed is about 25 feet. This zone is at the southwest end of the Main cut where samples 335-B and 336-B were taken. The next widest zone of veinlets also in the Main cut (sample 330-B), is about 12 feet wide. These two occurrences might be connected but intervening low-grade samples reduce the likelihood of such a case. Thinner zones of veinlets occur at the Dragline cut. Cinnabar observed at other localities on the property occurs in thin isolated stringers or in small numbers of stringers of doubtful economic importance.

Subsurface information is somewhat lacking but a reliable estimate of the possible size and shape of the ore bodies can be obtained from the text and figure 20 in Gilluly, Reed, and Park (1933). In this report stope lengths up to 75 feet are shown on figure 20, and stopes from 15 to 20 feet wide and 40 feet high are discussed in the text.

## SAMPLING

During the examination Mr. Bellows declared that he expected to find, and was mainly interested in finding, a large low-grade deposit. In addition, the subsurface maps indicate that most of the ground underlying the target area has been explored and that most of the high-grade "vein" material has been mined out. The samples taken, therefore, were unusually long and were primarily designed to determine the existence or nonexistence of a large low-grade deposit.

With one exception, none of the samples taken outside of the Main cut contained more than 0.4 of a pound of mercury per ton. The exception, sample 340-B, was grabbed from about 20 points on the dump of a caved adit located at the southwest corner of the property. Sample 340-B contained only 0.8 pound of mercury per ton. As an economic low-grade mercury deposit would have to approach 2½ to 3 pounds of mercury per ton, a potential large low-grade deposit has not been indicated by the sampling away from the Main cut. Eighteen samples were taken from the Main cut, of which five contained a pound or more of mercury per ton, while only two (330-B and 335-B), equalled or exceeded a cut-off grade of 2.5 pounds of mercury per ton. These two sample locations are about 150 feet apart and are in cinnabar-bearing vein zones that have roughly the same strike. Samples 306-B, 307-B, and 311-B, however, taken along the wall of the cut between samples 335-B and 330-B, greatly reduce the likelihood of a zone of ore extending between them.

## MERIT OF THE PROPERTY

For practical purposes the results of the surface sampling rule out a large low-grade mercury deposit near the surface of the area. Furthermore, the subsurface maps show that the bulk of the cinnabar occurs as steep-dipping tabular-shaped shoots only a few feet wide and of limited length. This demonstrated habit reduces the likelihood of a large low-grade deposit existing anywhere on the property.

The only near-surface target of possible interest is the zone between samples 330-B and 335-B. A high-grading operation between these locations would be a poor risk because of the intervening low-grade samples. Moreover, subsurface workings, apparently raises or stopes, not shown on map, break to the surface at two points near this zone, indicating that it is already mined out. It seems likely that any promising structure or high-grade shoot in the area has already been explored or mined from the main level to within a few feet of the surface.

Because the mine is reported to have produced a fair tonnage of 6-pound rock, exploration below the known workings might appeal to some people. The heavy ground, however, requiring complete lagging along almost all workings and square sets in the stopes, takes away much of the appeal.

Certainly there is no target in the area that merits Government-supported exploration.

## APPLICANT'S PROPOSAL

The applicant proposes a series of deep bulldozer cuts at right angles to the "regional trend", and auger drilling along the sills of the trenches, to determine the depth and grade of deposits found in the cuts.

Because this report recommends denial of the application, the applicant's proposal will not be discussed.

Attachment 1

Distribution:
DMEA (4) ✓
USBM (5)
USGS(SRO)
Docket
Alvord

12-11-56

Weissenborn said that although a number of specimens looked good this application is recommended for a denial because of low assays. He also said that Bellows was in the Spokane office and was shown the assays and maps and realizes it will be denied. However, he (Bellows) intends to do some more work on the property.

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
SEP 10 1956

September 5, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Copy retained 400

Re: Docket No. DMEA-4428 (Mercury)
Clyde R. Bellows
Motherlode Quicksilver Mine
Crook County, Oregon

WSM

Dear Mr. Selfridge:

Enclosed are two copies of a letter from the applicant, and two copies of a bid for drilling submitted to him by the A. M. Jannsen Drilling Company.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: USBM (2)
Alvord

DMEA (3)

MEC
ac

USBM (2)
DMEA (3)

[illegible] - [illegible]th Avenue N.W.
Seattle 7, Washington
August 26, 1956

Re: Docket No. DMEA [illegible] (Hermann
Clyde R. Bellows
[illegible] Mine
[illegible] County, Oregon

[illegible]

[illegible]

Please find enclosed the original [illegible] and the [illegible] [illegible] C. R. Bellows [illegible] submitted along [illegible] DMEA [illegible].

Thank you.

Sincerely,

C. R. Bellows, Gen. Mgr.
Clyde Mining Company

[illegible]

[illegible]

A. M. JANNSEN DRILLING CO.

21075 S. W. Tualatin Highway
ALOHA, OREGON
Phone Mitchell 4-2176

Residence Phone
Mitchell 2-3325

RECEIVED
SEP 1 1956

August 21, 1956

COPY

Clyde Mining Co.
9700 24th Ave. N.W.
Seattle, Washington

Attention: Mr. Clyde Bellows

Dear Sir:

We are very pleased to submit a bid for drilling approximately 10,000 feet of test borings on your mining property in the Ochoco forest.

Our method of sampling would be a drive down sampler in all unconsolidated formations and churn drilling all solid rock. The work would be done for an hourly rate of $14.00 per hour, plus any casing not salvaged. From past experience in your general area, we know that this cost will approximate $2.00 per foot.

Your entire drilling program should not cost in excess of $20,000.

Respectfully,
A.M. JANNSEN DRILLING CO.

(signed)
Edward M. Jannsen
Partner

EMJ:jh

RECEIVED
SEP 4 1956

400

DOCKET
Surname:
McMahon
Martin
Selfridge
Johnson

AUG 28 1956

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region I-N.W. District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4428, Mercury
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

Dear Mr. Weissenborn:

Reference is made to the subject docket and to your letter of April 15, 1956 (August 15), which states that a field examination of the Mother Lode Quicksilver Mine will be made in the immediate future.

We will, therefore, hold this application in abeyance until the report and recommendations of the Field Team are received.

Copies of memoranda dated August 21, by N. E. Nelson, Geological Survey, and J. W. Pennington, Bureau of Mines, are enclosed.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (AVB)

Enclosures

APPROVED:

FRANK D. LAMB (AVB)
Member, Bureau of Mines

N. E. Nelson (AVB)
Member, Geological Survey

cc: Docket
Code 400
Oper. Committee
Adm. Read. File
T. Kiilsgaard, USGS
J. W. Pennington, USBM
FT, Reg. I-NW Dist.

ADMcMahon/ls
8/24/56

400

Docket
McMahon
Martin
Lamb
Nelson
Selfridge

AUG 28 1956

Mr. Clyde R. Bellows
9700 24th Avenue, N. W.
Seattle 7, Washington

Re: Docket No. DMEA-4428, Mercury
Mother Lode Quicksilver Mine
Crook County, Oregon

Dear Mr. Bellows:

The above-docketed application for exploration assistance for mercury ores has been reviewed by the Defense Minerals Exploration Administration and referred to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region I, Northwest District, for a field examination of the property.

Possibly you have already heard from the Field Team with regard to examining the property.

Any assistance that you can give the Field Team will be appreciated.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

cc: Docket
Code 400
Adm. Read. File
Oper. Committee
J. W. Pennington, USBM
T. Kiilsgaard, USGS
FT, Reg. I-NW Dist.

ADMcMahon/ls
8/24/56

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 24, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

this ltr only
Copy retained 109
WSay

Re: Docket No. DMEA-4428 (Mercury)
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

Dear Mr. Selfridge:

In our letter of August 15, 1956, transmitting the referenced application, we called your attention to several exhibits that were missing and for which we had written the applicant. Enclosed are three copies of each of those exhibits. Also enclosed are six copies of the Consents to Lien which were not dated when we received them. As these Consents to Lien were signed prior to the receipt of, and the instructions to use, the new Consent to Lien and Subordination Agreement forms we are forwarding them in order not to delay the processing of the application. If it is necessary, we can have the new forms signed at the time of the field examination.

Sincerely yours,

Donald R. MacLaren

Donald R. MacLaren
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: USBM(2)
Alvord

each copy of exhibits sent to USGS & USBM 8/27/56

RECEIVED
AUG 27 1956

xxxxxxxxxxxxxxxx
No. 157 Howard Street
Spokane 4, Washington

August 24, 1956

Mr. Clyde R. Bellows
9703 - 24th Avenue NW
Seattle 7, Washington

Re: Docket No. [illegible]-4423 (Mercury)
Clyde R. Bellows
Mother Lode Quicksilver Mine
Crook County, Oregon

Dear Mr. Bellows:

This will acknowledge receipt of your letter of August 13 with which you enclosed the dated Consents to Lien and your letter of August 23, 1956, stating that a mailing tube with the documents requested in our letter of August 15 was being sent to us on that date; the mailing tube was received today.

Thank you very much for your prompt cooperation. We have already sent your application to Washington and will forward the exhibits and Consents to Lien today.

Sincerely yours,

Donald A. McLaren
For: A. E. Weissenborn
Executive Officer, [illegible]
Field Team, Region [illegible]
Northwest District

cc: [illegible](3)
[illegible](2)
Silverd

RECEIVED
AUG 27 1956

C. R. BELLOWS, GEN. MGR.
CLYDE MINING COMPANY
9700 - 24th Avenue N. W.
Seattle 7, Washington

# NOTICE OF SALE

KNOW ALL MEN BY THESE PRESENTS, that on the 20th day of June, 1956, the undersigned, CLYDE R. BELLOWS purchased under a contract of sale from Frank Reid, Earl Zimmerman and Roger Golliard, those certain mineral claims located in Crook County, Oregon, described as follows:

1. Jack Knife, as more particularly described in the Notice of Claim recorded May 9, 1954 in Book 7 of Mines at page 256, Records of Crook County, Oregon.

2. Merry Widow, as more particularly described in the Notice of Claim recorded May 5, 1954 in Book 7 of Mines at page 255, Records of Crook County, Oregon.

3. Western Belle, as more particularly described in the Notice of Claim recorded September 14, 1954 in Book 7 of Mines, page 325, Records of Crook County, Oregon.

4. Eastern Belle, as more particularly described in the Notice of Claim recorded September 14, 1954 in Book 7 of Mines at page 327, Records of Crook County, Oregon.

5. Canyon Creek No. 1, as more particularly described in the Notice of Claim recorded May 16, 1955 in Book 7 of Mines at page 419, Records of Crook County, Oregon.

6. Canyon Creek No. 2, as more particularly described in the Notice of Claim recorded May 16, 1955 in Book 7 of Mines at page 417, Records of Crook County, Oregon.

7. Canyon Creek No. 3, as more particularly described in the Notice of Claim recorded August 25, 1955 in Book 7 of Mines at page 551, Records of Crook County, Oregon,

all according to the terms and conditions and subject to the above mentioned contract of sale; and notice is hereby given to all, of the interest of the buyer, the undersigned Clyde R. Bellows, in and to said mining claims.

Dated this 26th day of July, 1956.

/s/ Clyde R. Bellows
Clyde R. Bellows

STATE OF OREGON )
) ss.
County of Crook )

On this 26th day of July, 1956, before me, the undersigned, a Notary Public in and for said County and State, personally appeared

the within named Clyde R. Bellows, who is known to me to be the identical individual described in and who executed the within instrument, and acknowledged to me that he executed the same freely and voluntarily.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

SEAL

Ralph J. Brown
Notary Public for Oregon
My Commission Expires: 12-5-59

Recorded Book 77 Page 133
Deed Records of Crook County

STATE OF OREGON, } ss.
COUNTY OF CROOK, }

I CERTIFY that the within instrument of writing was received for record on the _____ day of _____ A. D. 19____ at ____ o'clock ____ M., and recorded in Book _____ on Page _____ Records of _____ of said County.

_____ County Clerk

By _____ Deputy

State of Oregon,
County of Crook.

Notice of Sale

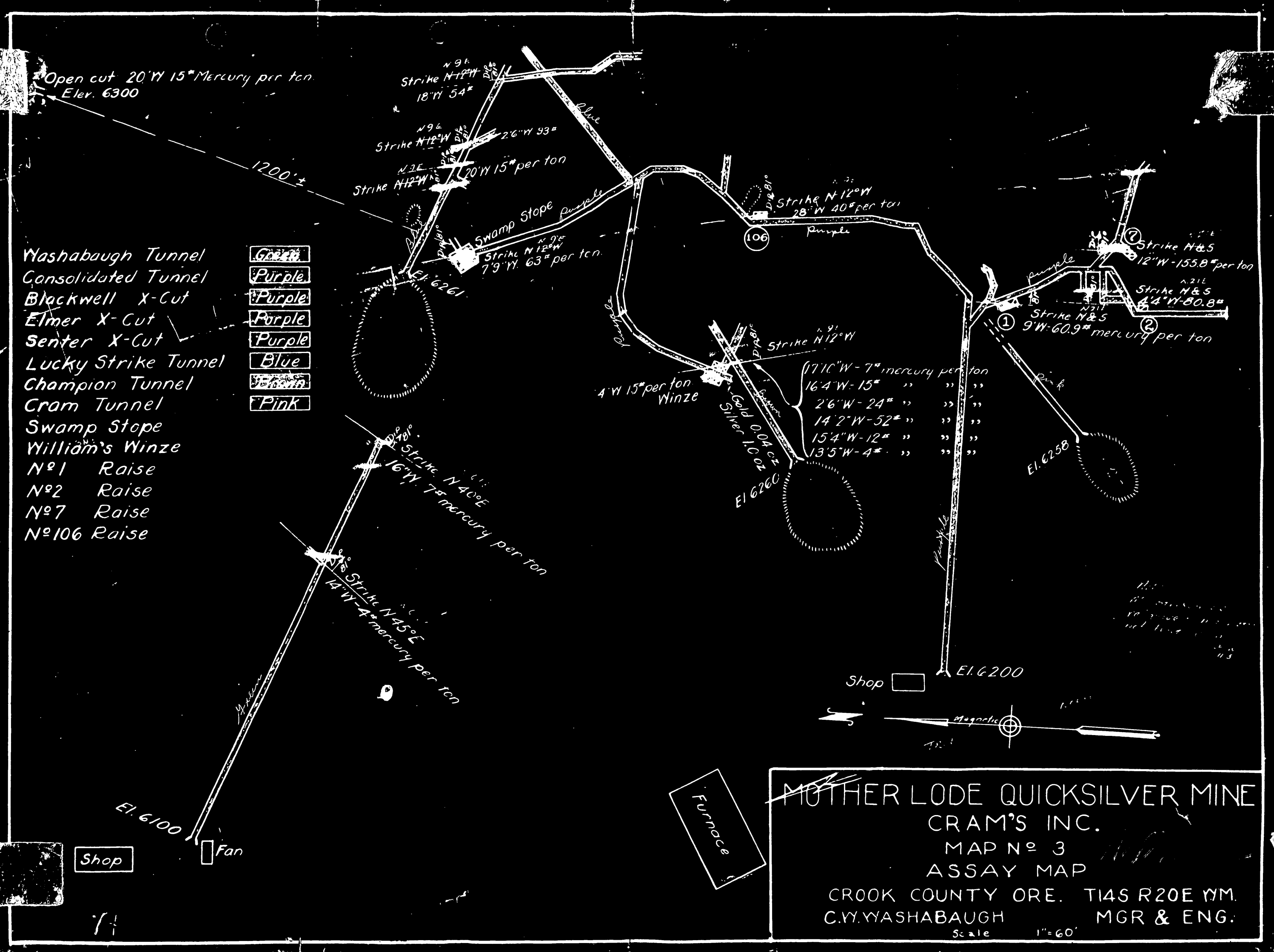
[illegible] correct transcript [illegible] as the same appears [illegible]

Hazel Powell Clerk

July 26 1956

By _____ Deputy

C. R. BELLOWS, GEN. MGR.
CLYDE MINING COMPANY
9700 - 24th Avenue N.W.
Seattle 7, Washington


Open cut 20'W 15# Mercury per ton
Elev. 6300
1200'±
Strike N12°W
18'W 54#
2'6"W 93#
20'W 15# per ton
Swamp Stope
Strike N12°W
7'9"W 63# per ton
El. 6261
Blue
Purple
Strike N12°W
28'W 40# per ton
106
Strike N12°W
4'W 15# per ton
Winze
Gold 0.04 oz
Silver 1.0 oz
El 6260
17'10"W - 7# mercury per ton
16'4"W - 15# " " "
2'6"W - 24# " " "
14'2"W - 52# " " "
15'4"W - 12# " " "
13'5"W - 4# " " "
Strike N&S
12"W - 155.8# per ton
Strike N&S
4'4"W - 80.8#
Strike N&S
9'W - 60.9# mercury per ton
1
2
7
Pink
El. 6258
El. 6200
Shop
Magnetic
Washabaugh Tunnel Green
Consolidated Tunnel Purple
Blackwell X-Cut Purple
Elmer X-Cut Purple
Senter X-Cut Purple
Lucky Strike Tunnel Blue
Champion Tunnel Brown
Cram Tunnel Pink
Swamp Stope
William's Winze
Nº1 Raise
Nº2 Raise
Nº7 Raise
Nº106 Raise
Strike N40°E
16'W 7# mercury per ton
Strike N45°E
14'W - 4# mercury per ton
Yellow
El. 6100
Shop
Fan
Furnace
MOTHER LODE QUICKSILVER MINE
CRAM'S INC.
MAP Nº 3
ASSAY MAP
CROOK COUNTY ORE. T14S R20E WM.
C.W. WASHABAUGH MGR & ENG.
Scale 1" = 60'

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

August 21, 1956

Memorandum

WSM

To: W. S. Martin, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4428 (mercury), Clyde Mining Company, Mother Lode Quicksilver Mine, Crook County, Oregon. $45,110.00

The applicant proposes to explore for cinnabar by a series of bulldozer cuts and drilling in the cuts at an estimated total cost of $45,110.00.

According to Bureau of Mines records, 2,529 tons of ore from the Mother Lode mine produced 203 flasks of mercury. Average grade of ore treated was 6.1 pounds of mercury per ton.

These data, in addition to those in the application, indicate that the area contains relatively high quantities of cinnabar and further exploration may be warranted.

The program and costs seem reasonable and I recommend that the application be referred to the Field Team.

The application is returned herewith.

J. W. Pennington

J. W. Pennington

Attachment

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
R. W. Geehan
F i l e s

RECEIVED
AUG 21 1956

Docket

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

August 21, 1956

WSM

Re: DMEA 4428
Clyde R. Bellows
Mother Lode Mine
Crook County, Oregon
$45,110.00 - Mercury

Copy retained 160

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application.

The applicant requests assistance in exploring, by bulldozing and drilling, a large area, in one section of which, a block 170 x 210 x 25 feet(deep), there is estimated to be 60,000 tons of 6.2 pound rock.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

RECEIVED
AUG 22 1956

August 20, 1956

Mr. Clyde R. Bellows
9700 24th Avenue, N. W.
Seattle 7, Washington

Subject: DMEA-4428
Re: Exploration Assistance
Mother Lode Quicksilver
Mine

Dear Mr. Bellows

The receipt of your application dated August 8, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4428 and referred to the Iron & Ferro-Alloys Division.

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

Sincerely yours,

Allen S. Dakan
~~Robert XXXXXXXXX~~, Chief
Operations Control and
Statistics Division

August 20, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region I,NW

From: Chief, Operation's Control and Statistics Division

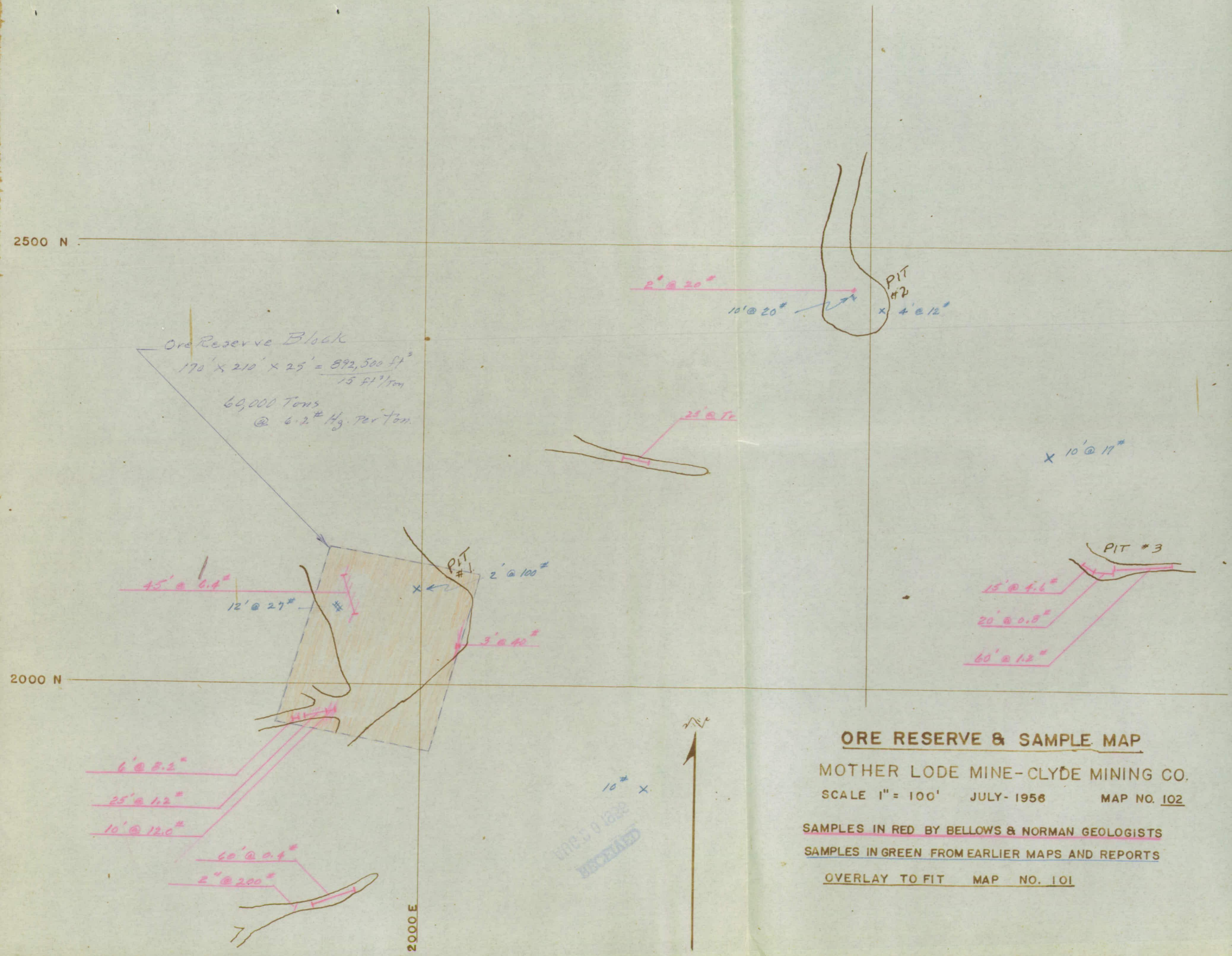
Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region I,NW.

DMEA - 8428 Clyde R. Bellows
Mother Lode Quicksilver Mine

Robert E. Adams
Chief, Operation's Control
and Statistics Division

C. R. BELLOWS, GEN. MGR.
CLYDE MINING COMPANY
9700 24th Avenue N.W.
Seattle 7, Washington




## ORE RESERVE & SAMPLE MAP

MOTHER LODE MINE - CLYDE MINING CO.

SCALE 1" = 100' JULY - 1956 MAP NO. 102

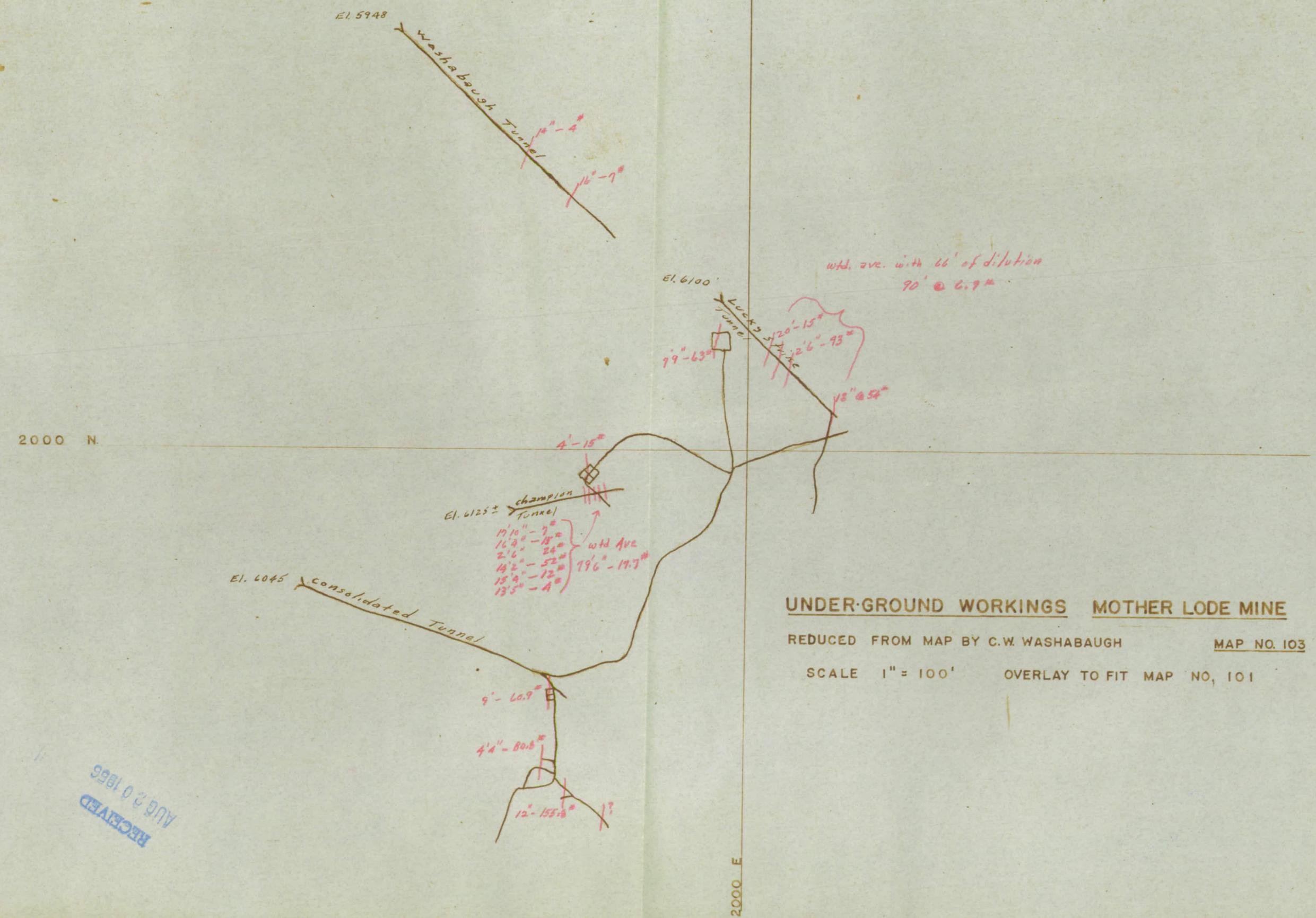
SAMPLES IN RED BY BELLOWS & NORMAN GEOLOGISTS

SAMPLES IN GREEN FROM EARLIER MAPS AND REPORTS

OVERLAY TO FIT MAP NO. 101

DEC 9 1958 DECLASSIFIED

C.R. Bellows Gen. Mngr.
Clyde Mining Co.
9700-24th N.W.
Seattle-7-Wash



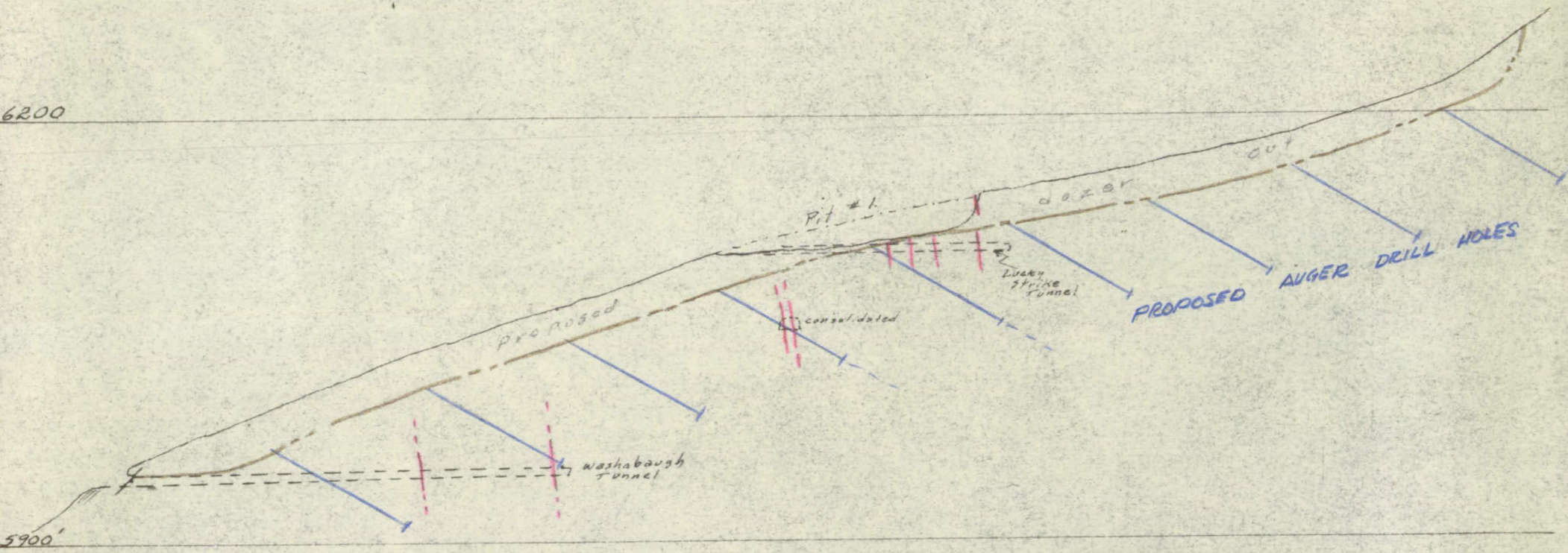

UNDER-GROUND WORKINGS MOTHER LODE MINE

REDUCED FROM MAP BY C.W. WASHABAUGH MAP NO. 103

SCALE 1" = 100' OVERLAY TO FIT MAP NO, 101

RECEIVED
AUG 20 1956

G. R. BELLOWS, GEN. MGR.
CLYDE MINING COMPANY
9700 24th Avenue N.W.
Seattle 7, Washington




CROSS SECTION A-A'

LOOKING NE SEE MAP NO. 101
SCALE 1" = 100' JULY 1956

MAP 104

RECEIVED
AUG 30 1956

# S. Government Messenger Envelope

rd Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a time.
2. Use previous block.
3. Write clearly.

| NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM | | NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM | |
|---|---|---|---|
| ~~John Liebert~~ ~~Rm 6654~~ | RUN<br>STOP | | RUN<br>STOP |
| ~~[illegible]~~ | RUN<br>STOP | | RUN<br>STOP |
| ~~[illegible]~~ | RUN<br>STOP | | RUN<br>STOP |
| Ellis<br>Rm 4443<br>Interior Bldg. | RUN<br>STOP | | RUN<br>STOP |
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*surplus envelopes to y room for reissue.*

Use other side

16—38949a-2

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**Your mail room has RUN and STOP information.**

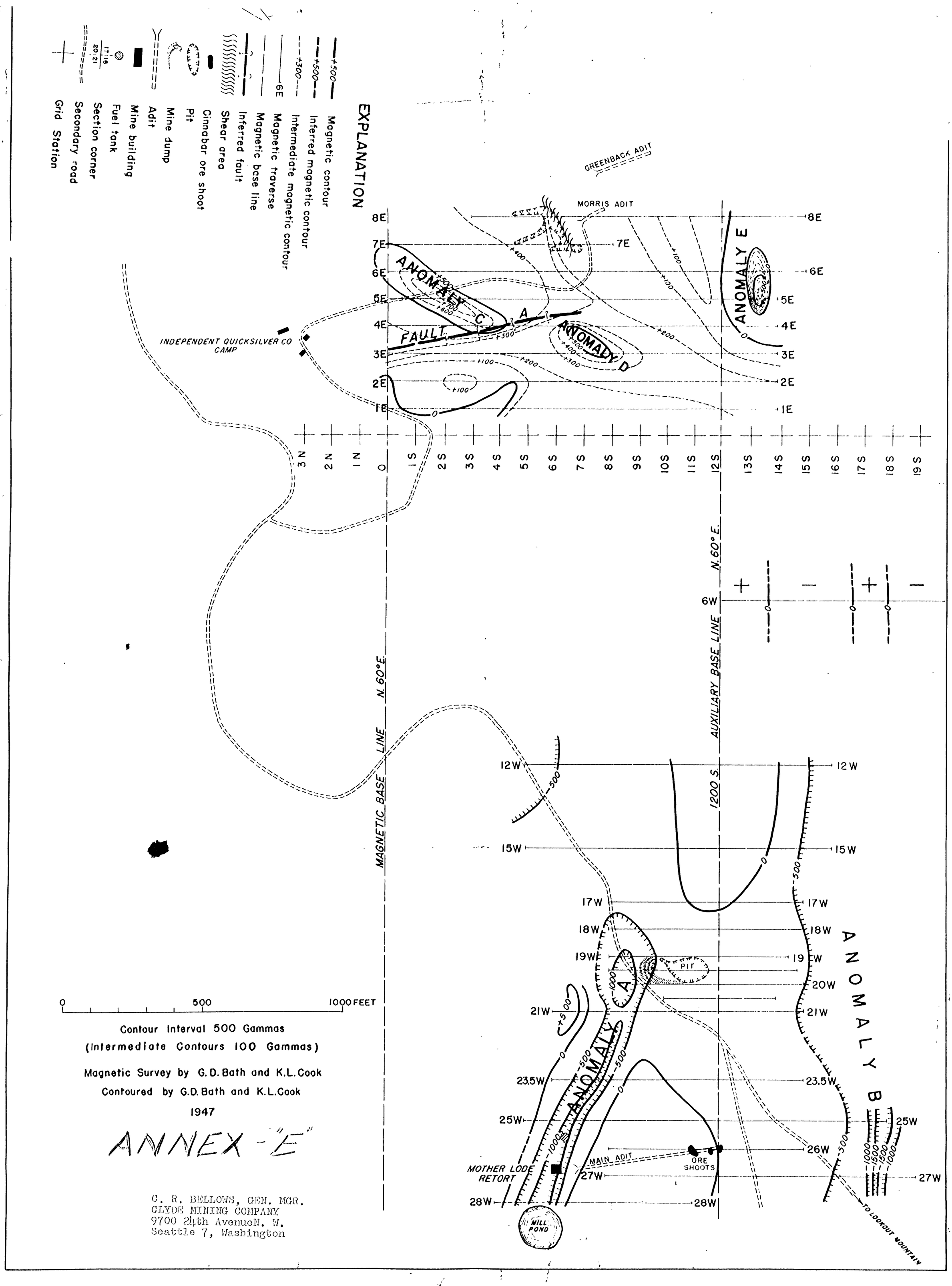



Figure 3. Magnetic map of the Mother Lode and Independent Quicksilver areas, Johnson Creek area, Ochoco Quicksilver District, Oregon.

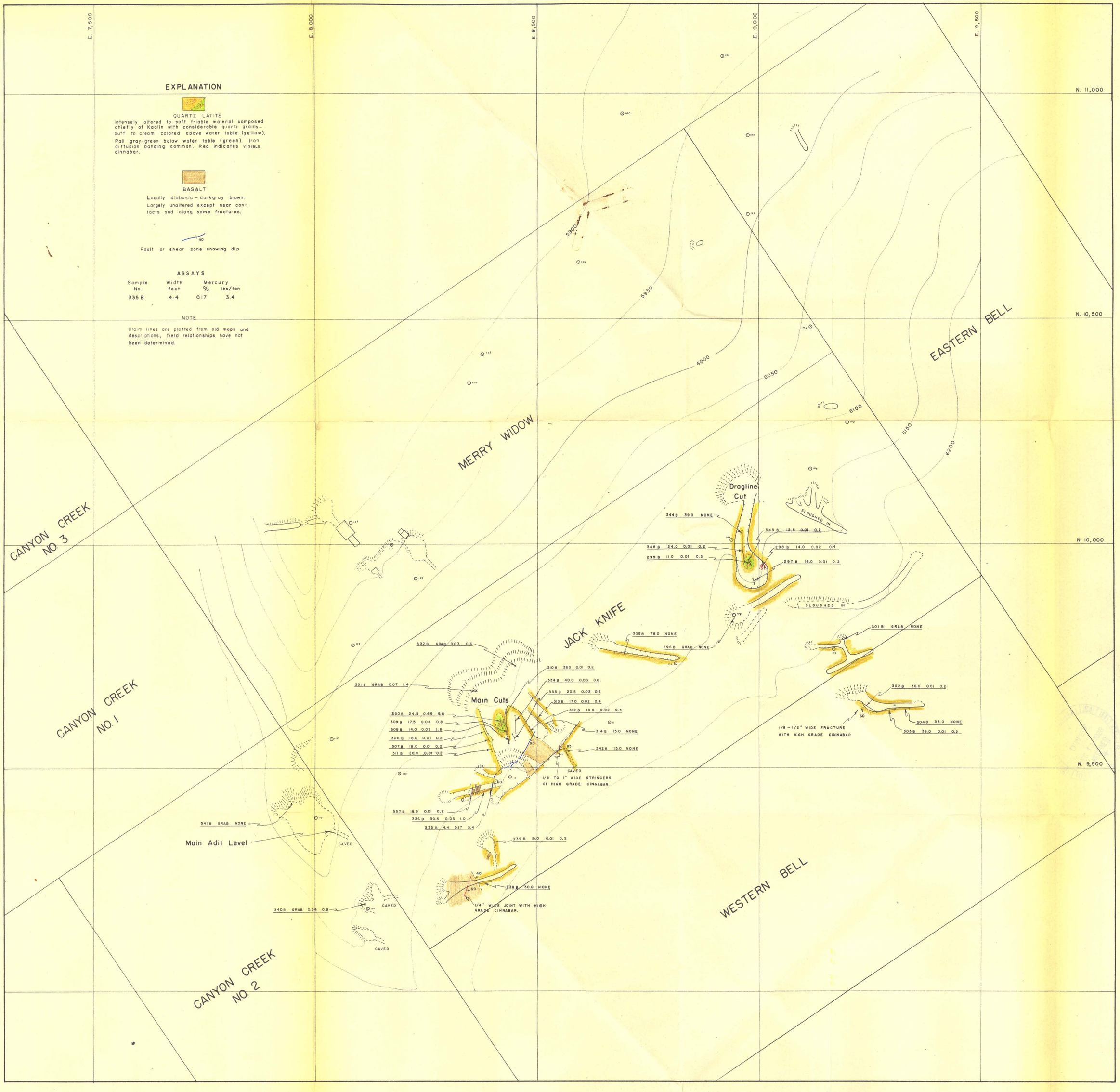



Plate I — MOTHER LODE QUICKSILVER MINE

Secs. 20 and 29 T. 14N. R.20E. W.M.

Crook County, Oregon

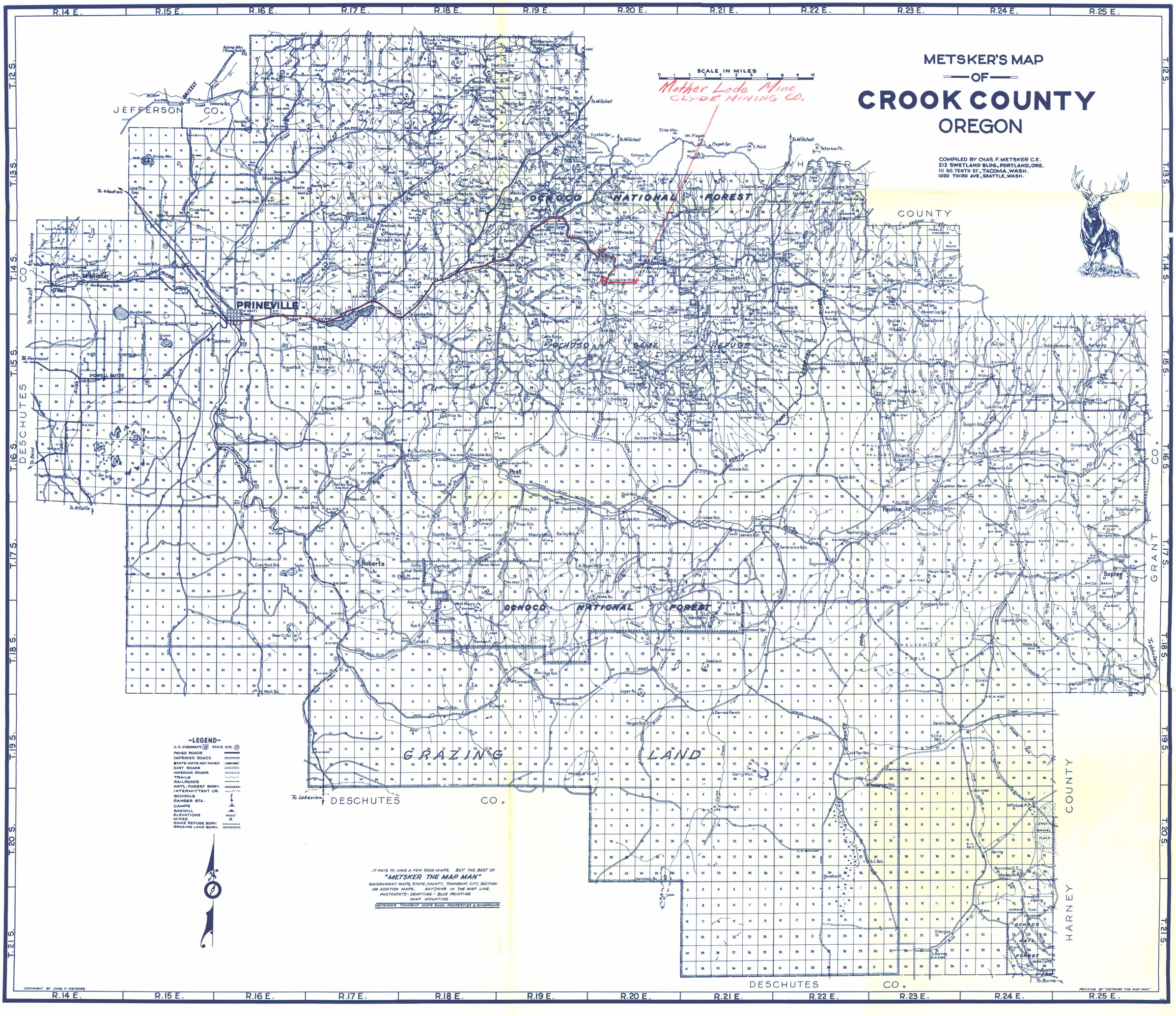
0 50 100 200 300 FEET

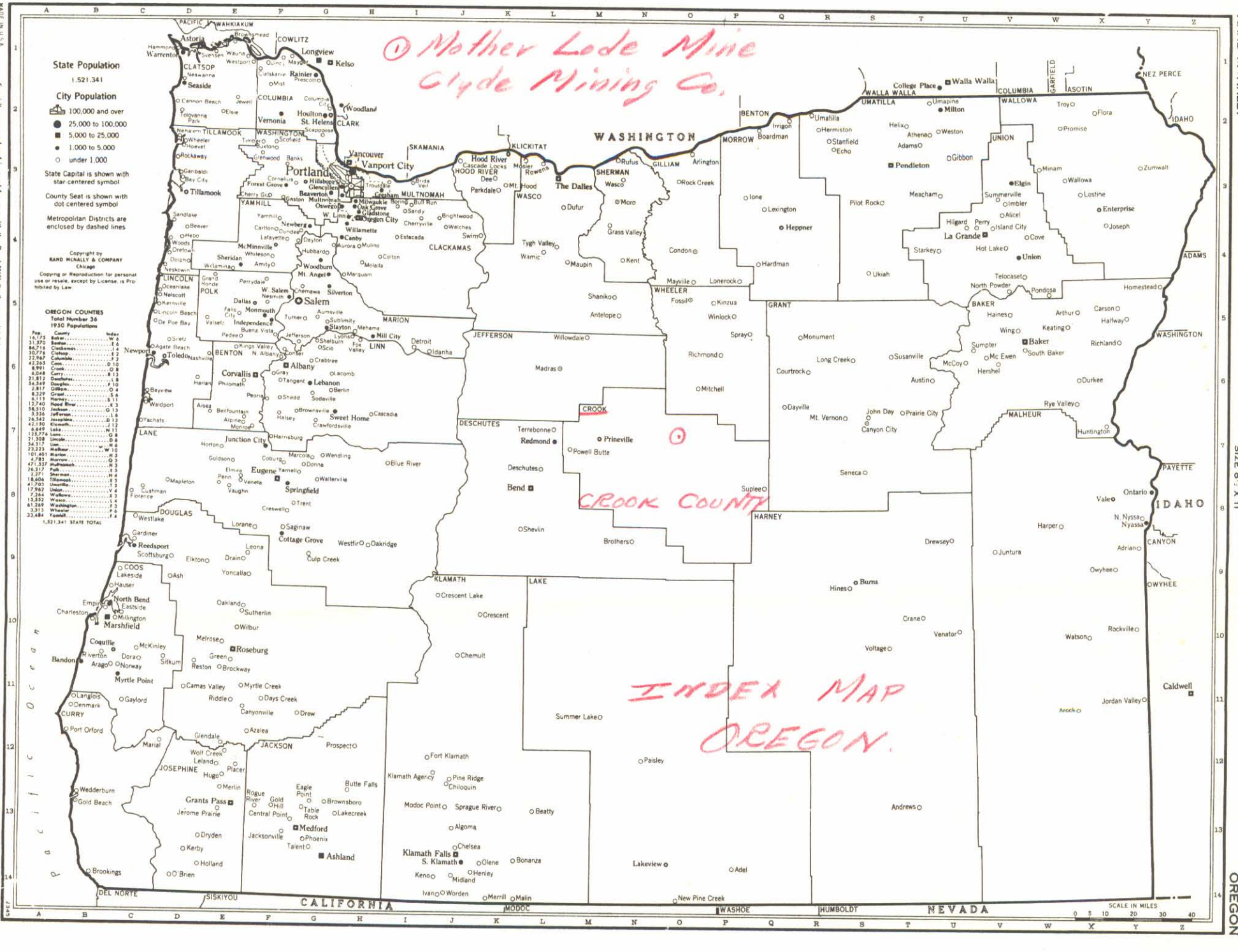
Base from Brunton and tape survey by C.R. Bellows, applicant.

Geology and sampling by D.C. Alvord, E.W. Parsons, and R.D. Sample, 1956.

# METSKER'S MAP
## OF
# CROOK COUNTY
## OREGON

COMPILED BY CHAS. F. METSKER C.E.
212 SWETLAND BLDG., PORTLAND, ORE.
111 SO. TENTH ST., TACOMA, WASH.
1020 THIRD AVE., SEATTLE, WASH.




RAND McNALLY
CITY-COUNTY STATE MAP
SIZE 8½ X 11
OREGON
State Population
1,521,341
City Population
100,000 and over
25,000 to 100,000
5,000 to 25,000
1,000 to 5,000
under 1,000
State Capital is shown with star-centered symbol
County Seat is shown with dot-centered symbol
Metropolitan Districts are enclosed by dashed lines
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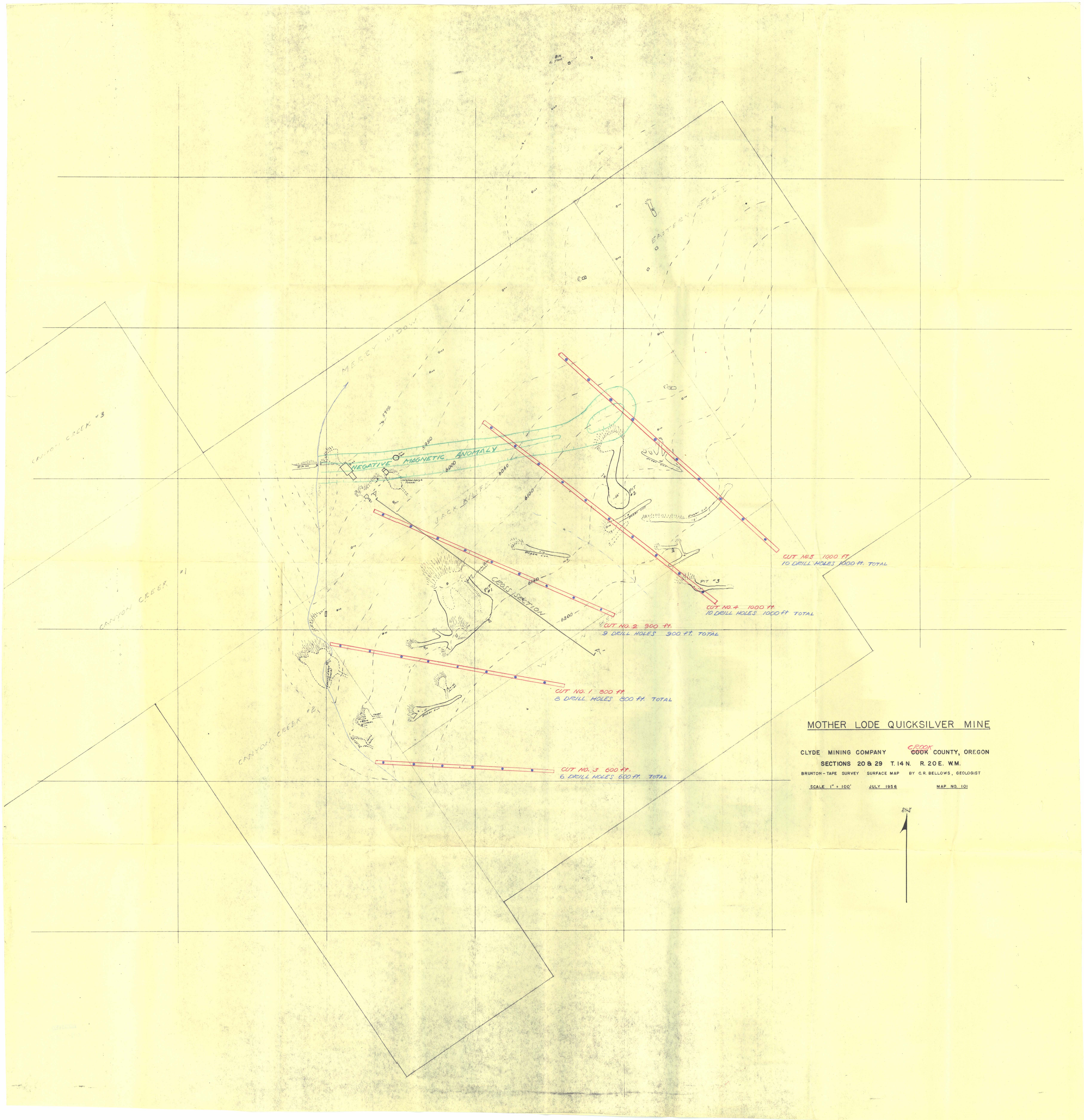
OREGON COUNTIES
Total Number 36
1950 Populations
Specially engraved and keyed for use with the Rand McNally Commercial Atlas and Marketing Guide.
This Map is also available in size 17 X 22
MADE IN U.S.A.
WASHINGTON
IDAHO
CALIFORNIA
NEVADA
Pacific Ocean
Portland
Salem
Eugene
Bend
Medford
Ashland
Klamath Falls
Pendleton
La Grande
Baker
Burns
Lakeview
Prineville
Redmond
Astoria
Longview
Vancouver
The Dalles
Hood River
Baker
Crook County
Index Map Oregon.
SCALE IN MILES
0 5 10 20 30 40




MOTHER LODE QUICKSILVER MINE

CLYDE MINING COMPANY ~~COOK~~ CROOK COUNTY, OREGON

SECTIONS 20 & 29 T. 14 N. R. 20 E. W.M.

BRUNTON - TAPE SURVEY SURFACE MAP BY C.R. BELLOWS, GEOLOGIST

SCALE 1" = 100' JULY 1956 MAP NO. 101