DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE  Idm-E NO._____  DMEA NO. 4914

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- [ ] Withdrawn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:

50-10

**Left Side**

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [XX] Application and attachments

**Right Side**

- [ ] Project summary (final)
- [ ] Work Comoleted analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual 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) 6-27-58
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

**Left Side**

Folders No._____: Reports

- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

**Right Side**

- [ ] Field Team Semi-Annual 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

17963

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

January 8, 1958

DMEA
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Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application - Copper
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California

Attached are three sets of MF-103, Application for Aid forms, relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attachments

Form MF-103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

# APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

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

FLEXIFORM ENGINEERING & MINING COMPANY
681 Market Street
San Francisco, California

RECEIVED JAN 10 D.M.E.A.

**APPLICANT NOT TO USE THIS BLOCK**

Docket Number: DMEA-4914
Date Received: Reno 1/9/58 1/10/58
Government Participation %:
Region: II
Division Code: 500

**BUSINESS ORGANIZATION** (Check one)

- Individual [ ]
- Corporation [X]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized: Nevada

**LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE**

| Name | Address | Title |
|---|---|---|
| F. W. Handel | 681 Market St. San Francisco Calif. | President |
| W. P. Smith | | Treasurer |
| T. Martin | | Vice-President |

Mineral(s) for which you wish to explore: Copper

Estimated Cost of Project: $ $75,000

**LOCATION OF PROPERTY**

| Name | County | State |
|---|---|---|
| Wallis Property Sec.34 T.33N.,R.4W. | Shasta | Calif. |

## GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Revised, "Government Aid in Defense Exploration Projects." 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 four 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 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. 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 2(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 Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA 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.

December 31, 1957
*Dated*

Russell O'Haddy
BY *(Signature)*

Manager
*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. *Applicant's Property Rights:*

*(a)* 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 land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

*(b)* State all the names by which you know the property.

*(c)* State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

*(d)* Describe all liens, mortgages, or other encumbrances on the property.

2. *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 lands, including existing mine workings. Describe all production facilities.

*(b)* State your interest, if any, in operations stated in 2*(a)*.

*(c)* State, as far as 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 on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

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

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

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

3. *Accessibility of Project:*

*(a)* To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

*(b)* Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

*(a)* Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the 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 *property boundaries* or to the closest identifiable corner.

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

*(c)* In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

*(a)* Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, 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. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

*(c)* Operating materials and supplies. List items of material and supplies with their cost. 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 operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

*(e)* Initial rehabilitation and repairs. Describe the type and the cost of necessary *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 on the exploration project.

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

*(g)* Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(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* – 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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Revised.

*(b)* Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 25960

FLEXIFORM ENGINEERING AND MINING CO.
681 Market Street, San Francisco, Calif.

1 (a) Sec. 34, T. 33 N., R. 4 W., Shasta County, California
Sec. 35, T. 33 N., R. 4 W., Shasta County, California
Option held on Sec. 27, T. 33 N., R. 4 W., Shasta County, Calif.
Own 320 acres of Sec. 26, T. 33 N., R. 4 W. Shasta County, Calif
Lien to apply to 464 acres of Sec. 34, T. 33 N., R. 4 W. only.

(b) Bessie Wallis - described in Calif. Journal of Mines and Geology, 1939, Vol. 35, No. 2, Page 154.

(c) Purchaser under contract. Copy of contract enclosed.

(d) None.

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DATE | INITIALS

2 (a) Two open cuts - (1) 35' x 125' x 400'
(2) 15' x 75' x 170'
(3) 8' drift in (#1) cut
(4) Two old drifts near our open cuts and one old shaft.
(5) 6' x 10' x 25' shaft - timbered.

Facilities: RD 8
Caterpillar - bulldozer to open pits
LeRoy 165 c.f.
Compressor with wagon drill

(b) Our development described as #1, #2, #3, #5.

(c) None

(d) Extensive and massive deposit.

(e) Vein system - copper - iron - sulfur - silver - granitics - porphyry.

(f) Evidence in outcroppings and the open cuts show massive veins of ore. The area was sampled and assayed prior to start of operations. Sampled gossan by pick and shovel. Sample ore vein by random sampling after blasging. Sampled old dumps of old shaft and old drifts mentioned 2 (a).
Copies of assay reports enclosed.

(g) We have none - nor have we seen any.

3 (a) R. T. HADDY, Shasta Court, Central Valley.
Property located on Old Oregon Trail. Property lies east of Project City and reached by surfaced road and improved road. One turns east at Project City and travels about three miles to the property. One may drive to any part of the property.

(b) At present, Redding. Residences at Project City, three miles from property.

FLEXIFORM ENGINEERING AND MINING CO.
681 Market Street, San Francisco, Calif.

4 (a) Desire to increase depth of present shaft (2a #5) to 200 ft. Drift 100 ft. in each of four directions, North, South, East and West, at 100 ft. level and repeat like drifts at 200 ft. level. Exploration for vein of cut #2 (2a #2).

To continue drift for 500 lineal feet at bottom of open cut #1 (2a #1). This drift has been started on ore vein.

Above described shaft is located 200 ft. southeast of an ancient drift at open cut #2 (2a #2).

Proposed drift of 500 lineal feet at bottom of open cut #1 (2a #1) is approximately 50 ft. southwest of ancient drift alluded to (2a #4). Proposed drift is 35 ft. southwest of ancient shaft (2a #4).

Proposed 500 ft. drift is approximately 1000 ft. southwesterly from Corner S take common to Sec. 26-27-34-35, T. 33 N., R. 4 W.

Shaft located 450 ft. south of corner common to Sec. 26, 27, 34, 35, T. 33 N., R. 4 W.

(b) None necessary - none proposed.

(c) Immediately. It would facilitate present operations.

Approximately 2 months to deepen shaft.
Approximately 6 months to drift 800 ft. at two levels of shaft.

Six months will be required for 500 ft. drift at open cut (2a #1)

5 Formerly Superintendent of Van Dyke Copper Co., Miami, Arizona.
Former Owner of American Mine - Copper Ore, Miami, Arizona
Operator & Lessor - King Property, Silver City, Nevada
Operator & Lessor - Como Property, Dayton, Nevada

6

| | |
|---|---|
| To sink shaft additional 175 ft. @ $75/foot | $13,125 |
| 400 ft. of drifts at #1 level @ $35/foot | 14,000 |
| 400 ft. of drifts at #2 level @ $35/foot | 14,000 |
| 500 ft. of drifts at #1 open cut @ $35/foot | 17,500 |

(a) None

| | |
|---|---|
| (b) Supervision | 10,000 |
| Engineering services | 3,000 |
| 10 miners @ $2.75/hour, 6 month period | 31 680 |
| Technicians and miners locally available | |
| (c) Compressor, piping and other mining equipment | |
| (d) owned by Flexiform Engineering & Mining Co., applicant, valued at | 20,000 |
| Powder, fuse, caps | 1,250 |
| (e) None | |
| (f) Change room and shower, 6'x18' wood frame corrugated galvanized iron sheeting | 500 |

FLEXIFORM ENGINEERING & MINING CO.
681 Market Street, San Francisco, Calif.

6 (g) Analytical work, accounting, etc. $5,000

7 (a) Yes
(b) Providing money - by providing equipment owned by applicant.

Note: Applicant, Flexiform Engineering and Mining Company, 681 Market Street, San Francisco, has expended $25,000 to date on the above described property.

STATEMENT

J. F. HARRIGAN

CHEMIST ASSAYER

541 Hartnell Ave. Phone:

Redding, Calif. CH 103872

FLEXIFORM ENG. and MINING CO.,

681 Market Street

San Francisco, California

DETACH AND MAIL WITH YOUR CHECK. YOUR CANCELLED CHECK IS YOUR RECEIPT.

| | | |
|---|---|---|
| Assay #95, Sample #1 | COPPER: | 0.45% |
| Assay #96, Sample #2 | COPPER: | 0.31% |
| Assay #107 | COPPER: | 3.425% |
| Assay #115 | COPPER: | 1.45% |
| Assay #116 | COPPER: | 0.95% |

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AGREEMENT OF SALE

MEMORANDUM OF AGREEMENT made and entered into this _____ day of June, 1957, by and between BESSIE A. WALLIS, also known as BESSIE WALLIS, a single woman, and JOSEPH E. DOKE, a single man, hereinafter called "First Party", of Shasta County, California, and FLEXIFORM ENGINEERING & MINING CO., INC., a corporation, hereinafter called Second Party,

W I T N E S S E T H:

WHEREAS, First Party is the owner of a parcel of land consisting of approximately 464 acres which Second Party desires to acquire pursuant to the terms hereof,

NOW, THEREFORE, in consideration of the premises and for good and valuable consideration moving from each of said parties to the other, receipt whereof is hereby acknowledged by each from the other, it is hereby understood and agreed, by and between the respective parties, as follows:

1. That First Party hereby grants to Second Party, for the sum of One Hundred and Fifty Thousand Dollars ($150,000.00), that certain real property situated in Shasta County, California, more particularly described as follows:

E½; S½ of NW¼; E½ of SW¼ of Sec. 34, T. 33 N., R. 4 W; EXCEPT the following portion: A portion of Sec. 34, T. 33 N., R. 4 W: Beginning at a 1" iron pipe set on the Northwesterly side of County Road #35-D, from which the section corner common to Sections 26, 27, 34 & 35, T. 33 N., R. 4 W., bears N. 51° 50' 46" E. 3247.81 feet; thence from said point of beginning run on and along the Northwesterly side of said County Road #35-D.S. 12° 18' W. 139.17 feet; to a point marked

by an iron pin; thence leaving said Northwesterly side N. 77° 42' W. 313 feet to a point marked by an iron pin; thence S. 12° 18' W. 69.54 feet to a point marked by an iron pin; thence N. 77° 42' W. 417.42 feet to a point marked by an iron pin; thence N. 12° 18' E. 208.71 feet to a point marked by an iron pin; thence S. 77° 42' E. 730.42 feet to the point of beginning. LESS County road and LESS: Those certain conveyances heretofore made by BESSIE A. WALLIS, also known as BESSIE WALLIS, a single woman, as appear in Volume 500, page 125; Volume 516, page 287; and Volume 518, page 214, Official Records of Shasta County, California. Containing 464.91 acres, more or less.

2. That Second Party (subject to the terms of Paragraph10 hereinafter) agrees to pay for said property as follows:

(a) Five thousand dollars ($5,000.00) upon the execution hereof;

(b) Fifteen thousand dollars ($15,000.00) not later than twelve months from the date of the execution hereof;

(c) Twenty thousand dollars ($20,000.00) not later than the end of each twelve months' period thereafter for a period of six such periods; and

(d) The final Ten thousand dollars ($10,000.00) not later than twelve months after the last twenty-thousand dollar payment.

No interest will accrue upon unpaid balances so long as payments are made on time as agreed.

3. First Party agrees that after the execution hereof and the receipt of the down payment stipulated in Paragraph 2 (a) above, Second Party may have the sole and exclusive right to enter upon and conduct mining operations upon said property from which operations Second Party agrees to pay First Party a royalty of five percent (5%) of the gross

proceeds; and First Party agrees that all such royalty payments shall be credited against the payments stipulated in Paragraph 2 above; it is understood, however, that said payments due under the provisions of Paragraph 2 shall not be reduced if the said production royalties fall short of the totals. Said royalties shall be paid as and when the proceeds of mining are collected and received by Second Party, and shall be paid to a bank to be agreed upon by the parties hereto, which bank shall then distribute the said royalties according to instructions of the parties.

4. Upon the execution hereof, First Party shall deposit in escrow a grant deed deeding the above described premises to Second Party; satisfactory in form to Second Party, and upon the completion of the total payment of $150,000.00 as aforesaid, said escrowee shall deliver the said deed to Second Party.

5. Prior to the completion of purchase as aforesaid, First Party may use such parts of the surface of the premises as Second Party may determine are not useful for his mining and milling operations or for his dump area. If Second Party should determine it to be necessary to move First Party's house, he may move it to some other part of the said premises, or he may build on the said premises another structure of equal value; provided, however, that such house, old or new, shall become a part of the premises to be conveyed to Second Party upon completion of the purchase price as aforesaid.

6. Second Party shall mine and develop said

property in a first-class, workmanlike manner, and shall commence operations with all convenient speed after the execution hereof.

7. That Second Party shall protect First Party from and against all liability on account of damages or injuries to its workmen in and about the premises, and of, from and against all claims of third parties howsoever arising out of the mining operations conducted by Second Party on said property.

8. That in the event of any action being brought hereunder to enforce or establish the rights of either party hereto, the prevailing party in such action shall be entitled to reasonable attorneys' fees which shall be taxed as costs of suit in such action or proceeding.

9. That in the event of any default on the part of Second Party hereunder, First Party shall give to Second Party thirty (30) days' notice in writing of such default, and, at the end of that time, if Second Party shall not have cured such default, First Party shall be entitled to enter into possession of said premises as of their former estate, and Second Party shall have ninety (90) days to remove his machinery and equipment therefrom and shall leave the premises in good order and condition.

10. That at any time after the execution hereof, and after the payment of $5,000.00 as hereinabove provided, Second Party may terminate and abandon this contract upon ten (10) days' notice to First Party, and Second Party shall thereupon have no further liabilities hereunder except to pay production royalties which may then be due, and Second Party

shall execute any and all instruments which may be necessary to surrender his interest created herein.

11. At any time after the execution hereof and after the payment of $5,000.00 as hereinabove provided, Second Party may have the right to assign his rights hereunder or sublease the said premises without the consent of First Party.

12. That notices hereunder shall be given by registered mail to First Party at

and to Second Party at

13. This agreement shall inure to the benefit of and be binding upon the heirs, executors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have executed this agreement in duplicate, Second Party by its officers thereunto duly authorized, the day and year first above written.

_____
Bessie A. Wallis

Also known as

_____
Bessie Wallis

_____
Joseph E. Doke

FIRST PARTY

FLEXIFORM ENGINEERING & MINING CO., INC., a corporation

By_____

By_____

SECOND PARTY

# AGREEMENT OF SALE

between

BESSIE A. WALLIS
and
JOSEPH E. DOKE

AND

FLEXIFORM ENGINEERING & MINING CO., INC.,

June ,1957

PARK CHAMBERLAIN
ATTORNEY AT LAW
BALFOUR BUILDING
SAN FRANCISCO 4, CALIFORNIA

DMEA Form 7
(12-56)

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| 7/16 | Hammel | 500 |
| 7/16 | Martin | 130 |
| 7/16 | Lamb | 130 |
| " | Johnson | 130 |
| | | 110 |
| " | Mittendorf | 100 |
| | | 225 |
| | | |
| 7/16 | Kilsgaard | 130 |

JUL 16 1958

Mr. Russell Haddy, Manager
Flexiform Engineering & Mining Co.
681 Market Street
San Francisco 5, California

Re: Docket No. DMEA-4914 (Cooper)
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California

Dear Mr. Haddy:

We regret that we were unable to completely process your application for exploration aid prior to June 30, 1958, the termination date for approving new contracts, as announced by the enclosed copy of a news release of June 6, 1958.

However, had the processing been completed, we would have been unable to approve a project based upon the information available to us in Washington concerning your property.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure
WRGriswold/er 7/16/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Region II (2)
Chron.

8623

July 16, 1958

Memorandum for the Docket

From: Director, Division of Base Metals

Subject: Justification for Denial of Application, Docket No. DMEA-4914, Flexiform Engineering and Mining Company, Wallis Property, Shasta County, California, Copper.

The property shows copper mineralization along four fault and shear zones in altered andesite. As opened in various pits, a fair grade of ore is shown near the surface, a bit deeper the primary ore is of much less value. The Field Team estimate an "inferred" tonnage of 7500 tons, of 2-3% copper, which seems generous.

Probably a little angle diamond drilling might be warranted to test the shears, but the Applicant vizulizes a "blanket" deposit and wants a shaft, four way drifting, etc., all of which seems patently absurd. Since he will accept no alternate program, nothing is left but denial.

W. R. Griswold

WRG/er
Copy to: Docket
Admr R File
Chron.

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

July 2, 1958

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Report of Examination review, Docket No. DMEA 4914 (copper), Flexiform Engineering & Mining Co., Wallis Property, Shasta County, California

The examiners report that the property contains small copper deposits inferred to contain about 8,000 tons of sulfide ore averaging between 2 and 3 percent copper. However, they state that the size and grade of the occurrences are too small and there are no indications that larger deposits could be discovered. Accordingly, the examiners recommend that the application be denied.

I concur in that recommendation but suggest that the denial be made without prejudice to the property.

A. D. McMahon
A. D. McMahon

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

RECEIVED JUL 3 1958

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| 7/7 | wdb. | 500 |

IN REPLY REFER TO:

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

July 1, 1958
Re: DMEA 4914
Flexiform Engineering & Mining
Wallis Property
Shasta County, California
$75,000 - Copper

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of Field Team Report

The applicant requested assistance in continuing the exploration of an "extensive and massive deposit" by shaft sinking and drifting.

Instead of such a deposit, the examiners found four separate mineralized fault and shear zones in hydrothermally-altered andesite. The zones are generally 5 to 15 feet wide where they contain copper minerals, which occur in well-defined vertical zones within the controlling structures.

A sample across five feet taken by the examiners, assayed 5.20% copper and several showed lesser values. The examiners consider the deposits small but they may be fringes of larger deposits whose locations are not known. The examiners recommended diamond drilling for exploratory work, but the representative of the applicant did not agree. Therefore, the examiners recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

Official
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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

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June 24, 1958

Memorandum

To: Operating Committee, DMEA, Interior Bldg.
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II
Washington 25, D. C.

Subject: Docket No. DMEA-4914 (Copper)
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California

Enclosed are three copies of a report by J.D. Warne, Bureau of Mines, and J. E. Carlson, Geological Survey, on subject property.

Roscoe Smith and I concue in the recommendation that the application for exploration aid be denied.

S. Ricker

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
6-30-58
(date)

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DM-S-4E Report

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-4914 (Copper)
Flexiform Engineering and Mining Company
Wallis property, Shasta County, California

by

J. D. Warne
U. S. Bureau of Mines

J. E. Carlson
U. S. Geological Survey

June 17, 1958

Reviewed by
DMEA OPERATING COMMITTEE
6-30-58
(date)

## INTRODUCTION

The Flexiform Engineering and Mining Company, 681 Market Street, San Francisco 5, California, applied to the Defense Minerals Exploration Administration, docket DMEA-4914, for Government assistance to explore for copper on the Wallis property, Shasta County, California.

A field examination was requested by the Operating Committee and was made on May 6 and 7, 1958 by J. D. Warne, U.S. Bureau of Mines, and R. M. Smith and J. E. Carlson, U.S. Geological Survey. The examiners were accompanied by Mr. R. T. Haddy, the applicant's representative and superintendent.

Surface exposures and excavations were examined and mapped, and 10 samples were taken.

## SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The Wallis property contains small copper deposits along steeply-dipping faults and shears in volcanic rocks. These deposits are inferred to contain about 8,000 tons of sulfide ore and to average 2-3 percent copper.

The size and grade of these deposits are too small to constitute significant reserves and there are no indications that larger deposits will be discovered. Although some exploration is justified by the

geologic setting, a program acceptable to the applicant is not suited to explore the deposit which he believes to be flat-lying and more extensive than this report indicates. We therefore recommend that the application be denied.

## LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The Wallis property is in sec. 34, T. 33 N., R. 4 W., M.D.B.&M., Shasta County, California, at an altitude of 700 feet and in an area of low relief along the east fork of Stillwater Creek.

From Redding, California, the property is reached by traveling north 7.6 miles on U.S. Highway 99, turning left (east) 1.8 miles on the graveled Union School road, turning right (south) 1.2 miles, then left (east) 1.3 miles on gravel roads, and turning right through a gate 0.3 mile on an access road to the mine site. The total distance from Redding to the mine is 12.2 miles over all-weather roads.

Climate--Heavy rainfall during winter months curtails surface operations.

Labor--Available at Redding and nearby towns.

Mail and telephone service--Available at the property.

Supplies, Rail, and Freight--Obtainable in Redding.

## HISTORY AND PRODUCTION

Prospecting for gold was done in this area between 1890 and 1900. A shaft of unknown depth is reported to have been sunk on the property about 1902; quartz containing chalcopyrite remained on the dump. This shaft is the site of pit 1 and the old shaft timbers are still in place at the bottom of the pit.

The Flexiform Engineering and Mining Company began excavating pit 1 during September 1957, but heavy rains and flooding from Stillwater Creek prevented excavation of the pit as deep as the original discovery shaft. Subsequent excavation in pit No. 2 and a vertical 57-foot shaft was similarly hampered.

No production is recorded before 1957, but the applicant has mined about 200 tons of ore containing about 2-3 percent copper from pit 1. This ore was hauled to an old gold mill which is being rehabilitated for testing and concentration by flotation at French Gulch, California.

## DEVELOPMENT

Development (fig. 2) consists of pit 1 which has been excavated about 25 feet deep, 240 feet long, and 50 feet wide, by bulldozer and power shovel; pit 2, about 1,200 feet northeast of pit 1, about 20 feet deep, 150 feet long, and 50 feet wide; and a two-compartment, vertical shaft 57 feet deep with a station at 52 feet, 200 feet southeast of pit 2. The shaft and pit bottoms were not accessible for examination and

sampling as these workings are all below the level of Stillwater Creek and the ground water table. The operator has attempted to dry up the pits by bulldozing and blasting a new course for the creek, but he has not been entirely successful.

Mr. R. T. Haddy, superintendent in charge of operations for the applicant, has considerable mining experience, and he is capable of conducting an exploration program. However, his plans for exploration and development of the property are to test a large, massive, flat-lying deposit by drifts 100 and 200 feet below the surface, to strip 15 feet of overburden from a large area, and to open pit the underlying ore.

## PROPERTY AND OWNERSHIP

The Wallis property, which consists of 464 acres in sec. 34, T. 33 N., R. 4 W., is controlled by the Flexiform Engineering and Mining Company under an Agreement of Sale. Mr. Haddy reports that the Company is able to and will make a $15,000 payment on July 15, 1958, and that a second payment of $20,000 due by July 1959 will be made.

Complete data on this, and on adjoining properties controlled by this company in secs. 26, 27, and 35, was not submitted. Officers of the company are F. W. Handel, president; T. Martin, vice president; and W. P. Smith, treasurer; 681 Market Street, San Francisco 5, California.

## GEOLOGY

### Geologic Setting:

Rocks in the claim area are the McCloud limestone of Permian(?) age, the Dekkas andesite of Triassic age, and at least one andesite porphyry dike which cuts these rocks. Contact relationships and attitudes of the rocks are obscure owing to deep cover and few exposures, however the faults and shears which control the ore are well exposed in open cuts. Sulfide minerals occur in the igneous rocks but are rare in the limestone.

The McCloud is exposed along the stream and in pit No. 1. It consists of dense, light blue-gray, thin- to medium-bedded, finely-crystalline limestone. Evidence of recrystallization is shown by patches of cryptocrystalline carbonate surrounded by crystalline rock. This limestone contains nodules of a variety of talc ($3MgO.4SiO_2.H_2O$), a few inches to one foot in diameter, an occurrence not yet explained.

The Dekkas is the most abundant rock in the claim area and consists of 1 to 3 mm. quartz and chloritized feldspar phenocrysts in a grayish-blue, cryptocrystalline to sub-glassy groundmass of andesitic composition, and near mineralized zones this rock contains veinlets and replacement masses of quartz.

A dike about 20 feet wide which consists of 2 to 6 mm. quartz and feldspar phenocrysts in a granular, greenish-gray groundmass of probable andesitic composition cuts the limestone in the stream (fig. 2), and strikes about N. 50° W; it contains a vertical joint set having the same strike. An exposure of the same rock type in the stream about 60 feet north of the shaft is possibly a dike parallel to the first.

Contacts between these rocks are mostly covered, and bedding attitudes are rare. However, the limestone strikes N. 30°-40° W. and dips 50°-65° SW. in the two places where attitudes could be taken. Diller observed, in other places, that the series of flows comprising the Dekkas andesite dip generally east[1/]. The volcanic

---

1/ Diller, J. S., 1906, U.S. Geol. Survey folio No. 138

---

rocks are cut by faults and shears which strike generally northwest and dip steeply northeast. Displacement along the faults is probably from a few inches to a few tens of feet and they contain copper minerals as oxides, secondary sulfides, and native copper, and primary sulfides. The limestone does not appear to have been structurally prepared and is not ore-bearing. It contains a few specks of pyrite locally, and shows the effects of mild metamorphism which recrystallized the rock.

## Ore Deposits:

The Wallis property contains copper deposits along four separate mineralized fault and shear zones in hydrothermally-altered andesite (fig. 3). These zones are generally 5 to 15 feet wide where they contain copper minerals, strike north to northwest, and dip 45° to 85° NE. The observed strike length does not exceed 100 feet, they are inferred to be discontinuous along the strike. The lower part of the deposit could not be seen owing to mud and water in the two pits. They have been mined to a depth of 25 feet.

The mineral suite consists of malachite, azurite, chalcocite, native copper, chalcopyrite, bornite, pyrite, limonite, and quartz. These minerals are in well-defined vertical zones within the controlling structures. Malachite, azurite, and limonite occur in the oxide zones about 15 feet thick; black friable chalcocite and minor native copper occur in a supergene zone about 5 feet thick below the oxidized zone; and chalcopyrite, bornite, pyrite, and quartz are primary replacement minerals in slightly altered andesite at the base of the exposed part of the deposit. These primary sulfides occur as disseminated minerals in quartz and andesite, but are mainly replacement masses along small fractures in andesite. The deposition of the sulfides and quartz appears to be concurrent.

The altered rock consists of bleached and partly kaolinized andesite near fault zones, blue clay associated mainly with the secondary zone, and gossan capping. The clay may be partly gouge, although most of it is altered andesite. Limonite gossan which contains minor chalcopyrite boxwork caps the exposures of the deposit; the lower contact of this gossan is flat-lying and does not dip with the copper-bearing veins. It also occurs as small scattered outcrops and float surrounding these exposures, but much contains only limonite boxwork and color, or is limonite-stained rock.

Sampling:

Ten samples of the mineralized exposures were taken (figs. 2 and 3). However, it should be noted that assay values of most samples are influenced favorably by the small secondary zones across which they were cut. Sample 11 is select ore and probably is not representative of ore in the shoot from which it was taken. Descriptions and analyses of these samples are as follows:

| Sample No. | Percent Cu | Ozs./ton Au | Ag | Description |
|---|---|---|---|---|
| 2 | 0.02 | tr. | tr. | Grab of rock from bottom of 57-ft. shaft. |
| 3 | 0.55 | tr. | tr. | 5.0 ft. horiz. channel along north wall, pit 1. |
| 4 | 5.20 | tr. | 0.50 | 5.0 ft. horiz. channel along north wall, pit 1. |
| 5 | 2.37 | tr. | 0.20 | 10.0 ft. horiz. channel along north wall, pit 2. |

| Sample No. | Percent Cu | Ozs./ton Au | Ozs./ton Ag | Description |
|---|---|---|---|---|
| 6 | 2.36 | tr. | 0.20 | 8.0 ft. horiz. channel along north wall, pit 2. |
| 7 | 1.40 | tr. | 0.10 | 6.0 ft. horiz. channel along north wall, pit 2. |
| 8 | 1.27 | tr. | 0.10 | 4.5 ft. horiz. channel along south side, pit 2. |
| 9 | 1.38 | tr. | 0.10 | 5.5 ft. channel from bottom, south side, pit 1. |
| 10 | 0.22 | tr. | 0.10 | 6.0 ft. channel across bottom, south side, pit 1. |
| 11 | 4.95 | tr. | 0.30 | Grab, from 5 tons chalcopyrite ore mined from old discovery shaft. |

## ORE RESERVES

The ore reserves are summarized as follows:

| Class | Tons | Percent Cu |
|---|---|---|
| Measured | a few tons | 4 |
| Indicated | 250 | 3 |
| Inferred | 7,500 | 2-3 |

Measured reserves consist of secondary ore along the walls of the two pits.

Indicated reserves are in blocks in pits 1 and 2 from 5 to 15 feet wide, about 30 feet along the strike, 5 feet down the dip, and is chiefly under the flooded pit bottoms.

Inferred reserves are in two blocks in pit 1 and two blocks in pit 2. In pit 1, the west block is 10 feet wide, 50 feet along the strike, and 50 feet down the dip; the east block has the same dimensions.

In pit 2, the west block is 15 feet wide, 50 feet along the strike, and 50 feet down the dip. The other block is exposed in both walls, and is 5 feet wide, 100 feet along the strike, and 100 feet down the dip. Two-thirds of these blocks is assumed to be ore which occupies about 12 cubic feet per ton in place.

Although these deposits are small, they are possibly the fringes of larger deposits; however there is no available data to indicate the location of such deposits.

## EXPLORATION

The applicant proposes (1) to deepen the shaft near pit 2, to the 200-foot level, (2) to drift 400 feet in four directions from this level, and 400 feet in four directions from the 100-foot level, and (3) drift 500 feet west at pit 1 at a depth of 25 feet.

A conference with Mr. Haddy disclosed that he considers the deposit to be of blanket or manto type and to be essentially continuous over an area which includes both pits, the small hill south and east of these pits, and perhaps several square miles. This hill contains small patches of gossan and oxidized rock which are not continuous; and the area between the pits does not contain exposures of copper-bearing structures.

About 1,500 feet of angle drilling is warranted to test the depth and strike length of the mineralized structures near the pits shown on figures 2 and 3. The applicant and examiners agreed that drilling could accomplish the same result as underground work at a fraction of the cost; however the applicant is interested either in his original proposal or in many shallow vertical holes to test a flat-lying deposit at a depth of 15 to 30 feet, and he points out that he cannot mine drill holes. We do not believe that a DMEA program would be successful.

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-4914
(Copper)

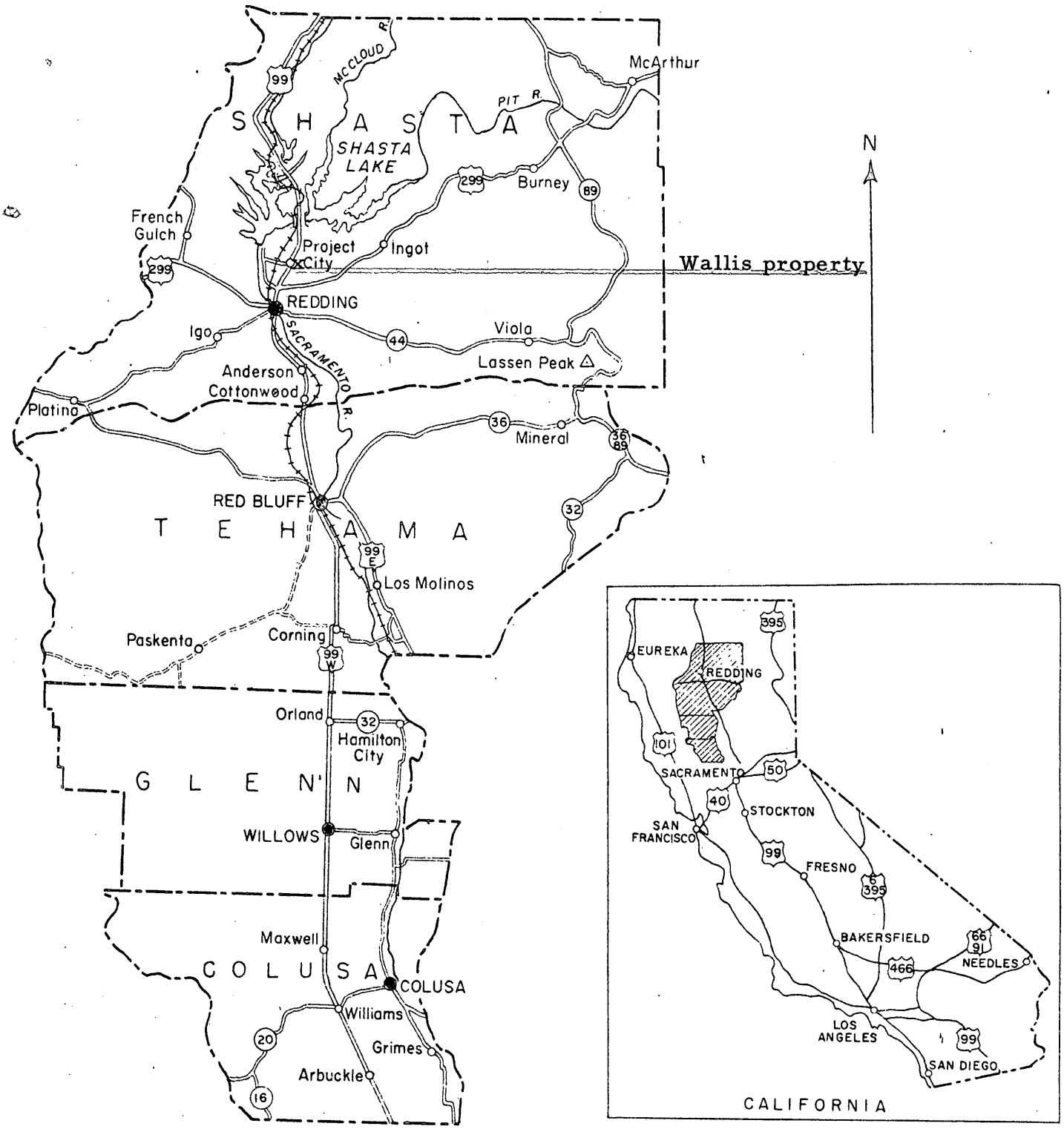


Figure I. INDEX MAP OF SHASTA, TEHAMA, GLENN, AND COLUSA COUNTIES, CALIFORNIA

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(12-56)

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MAY 9 1958 500

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4914 (Copper)
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California

Dear Mr. Ricker:

The cited application is now being referred to your office for consideration, a field examination of the property if warranted, and recommendations. Copies of memoranda, dated January 14 and 15, 1958, by N. E. Nelson, Geological Survey, and A. D. McMahon, Bureau of Mines, respectively, relating to the project, are enclosed for your information. We are also enclosing an extra copy of the application for the Field Team use.

We are likewise, enclosing copies of the May 2 letter from the Applicant, with one map. The available information is still incomplete but probably it is about all that could be obtained.

In case you should consider the application favorably, the proper Owners' Consent to Lien would, of course, be required. Also, please note that, under the Agreement of Sale, the Applicant is not only required to make a $15,000.00 payment shortly but also an additional $20,000.00 in a year's time. It is not our policy to engage in projects which are likely to be interrupted by an Operator's inability to meet large cash payments, as they fall due.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

APPROVED:

Frank D. Lamb (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

WRGriswold/er 5/8/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Chron.

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DMEA Form 7
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MAY 8 1958

Mr. W. P. Smith
Flexiform Engineering & Mining Co.
681 Market Street
San Francisco, California

Re: Docket No. DMEA-4914 (Copper)
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California

Dear Mr. Smith:

We have your letter of May 2, 1958, and your application is now being referred to:

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

If additional information concerning your application is needed, the Field Team will get in touch with you at an early date.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WRGriswold/er 5/8/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Region II (2)
Chron.

8623

Flexiform Engineering & Mining Co., Inc.
681 MARKET STREET, SAN FRANCISCO 5
SUTTER 1-2691

May 2nd, 1958.

United States Department of Interior.
Defense Minerals Exploration Administration;
Washington, D. C.

Re: Docket No, DMEA-4914 (Copper)
Flexiform Engineering & Mining Co.
Wallis Property,
Shasta County, California.

Gentlemen:-

Referring to your file on above application.

We are herewith enclosing the Map you requested, also have been authorized to advise you that plans for our making the $15,000 payment due on the property July 15th have already been authorized.

Regarding the samples, they were taken from sides of pits marked in Red on the map.

We are this date advising your Reno office that our pits have been pumped out and are dry and ready for their inspection this coming week, as we were informed they expected to be in there May 6th and or 7th.

Thanking you for your further attention to this application, I am,

Very Truly Yours,

W. P. Smith.

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MAY 2 1958

Mr. Russell Haddy, Manager
Flexiform Engineering & Mining Co.
681 Market Street
San Francisco, California

Re: Docket No. DMEA-4914 (Copper)
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California

Dear Mr. Haddy:

Reference is made to our letters of January 13 and March 26, 1958, regarding the cited application.

Unless we hear from you within thirty days from the date of this letter, we will assume that you are no longer interested in proceeding with the application, and we will consider it as having been withdrawn.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

WRGriswold/er 5/2/58
Copy to: Docket
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Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Region II (2)
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MAR 26 1958

Mr. Russell Haddy, Manager
Flexiform Engineering & Mining Co.
681 Market Street
San Francisco, California

Re: Docket No. DMEA-4914 (Copper)
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California

Dear Mr. Haddy:

This is with reference to our letter to you of January 13, 1958, regarding the cited application.

We wish to cooperate with you fully in allowing ample time to supply the requested information; however, we cannot indefinitely postpone action. Will you kindly advise us in the near future.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Director
Division of Base Metals

WRG/er 3/25/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS
Region II (2)
Chron.

8623

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

January 15, 1958

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4914 (copper), Flexiform Engineering & Mining Co., Wallis Property, Shasta County, California

The applicant seeks Government assistance in an exploration program consisting of 175 feet of shaft sinking and 1,300 feet of drifting to test veins exposed in surface cuts.

Other than an assayer's statement concerning the values of five analyses, the application presents no geological and little other justification for considering an exploration project on the property.

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

A. D. McMahon

A. D. McMahon

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

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IN REPLY REFER TO:

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

January 14, 1958
Re: DMEA 4914
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California
$77,125.00 - Copper

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of application

The applicant requests assistance in continuing the exploration of an "extensive and massive deposit" by shaft sinking and drifting.

According to the application, $25,000 has been spent by the applicant on work and equipment. There appears to be little to show for the expenditure, other than 2 open cuts and a 25-foot shaft. Assays of 5 samples are quoted as: Copper 0.45, 0.31, 3.425, 1.45 and 0.95%. What they represent is not stated.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

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JAN [illegible]

Mr. Russell Haddy, Manager
Flexiform Engineering & Mining Co.
681 Market Street
San Francisco, California

Re: Docket No. DMEA-4914 (Copper)
Flexiform Engineering & Mining Co.
Wallis Property
Shasta County, California

Dear Mr. Haddy:

We have received the application of your company for Government assistance in an exploration project on the cited property.

Before we can process your application we must have additional information. Please forward to us a map or sketch of the property, showing the approximate locations where you propose to do the work. Also please let us have more data regarding the assays you submitted; as to location of sample, sample widths, etc.

We note that under the Agreement of Sale your company is obligated to make a payment of fifteen thousand dollars ($15,000.00) in June 1958. There is no possibility that any proposed project could be negotiated and completed prior to such time; hence, you should provide us with evidence that the cited payment can be met when it falls due.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Director
Division of Base Metals

WRGriswold/er 1/13/58
Copy to: Docket
Admr R File
Op. Committee
Mr. McMahon, USBM
Mr. Kiilsgaard, USGS,
Region LL (2)
Chron.

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

January 10, 1958

Flexiform Engineering & Mining Co.
681 Market Street
San Francisco, California

Gentlemen:

Subject: DMEA-4914

Your application for exploration assistance, dated December 31, 1957 submitted to our office at Reno, Nevada has been assigned Docket Number DMEA-4914 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region II

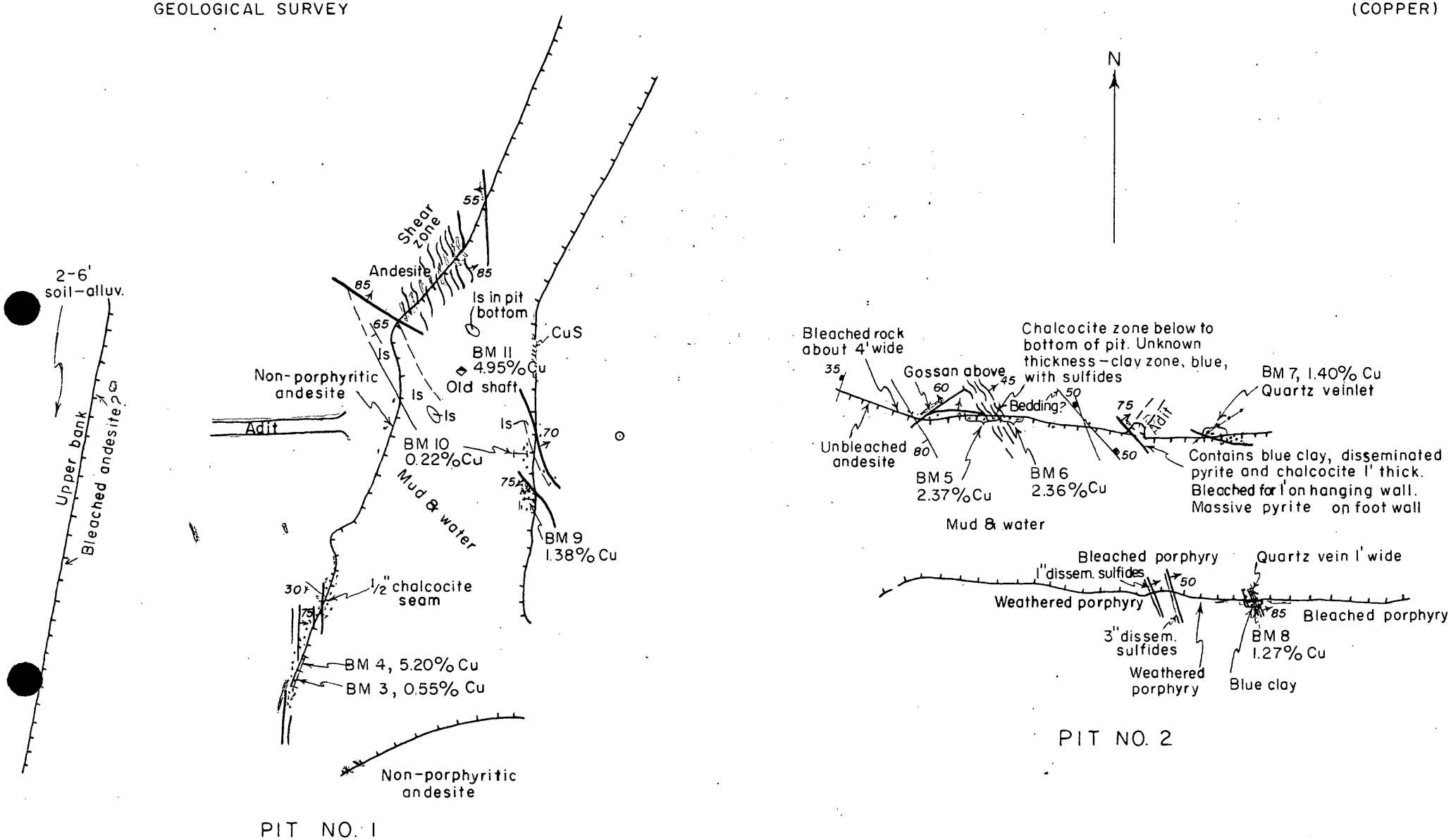


Figure 3. GEOLOGIC MAPS OF PIT NO.1 AND PIT NO. 2, WALLIS PROPERTY, SHASTA COUNTY, CALIFORNIA

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 4914
(COPPER)

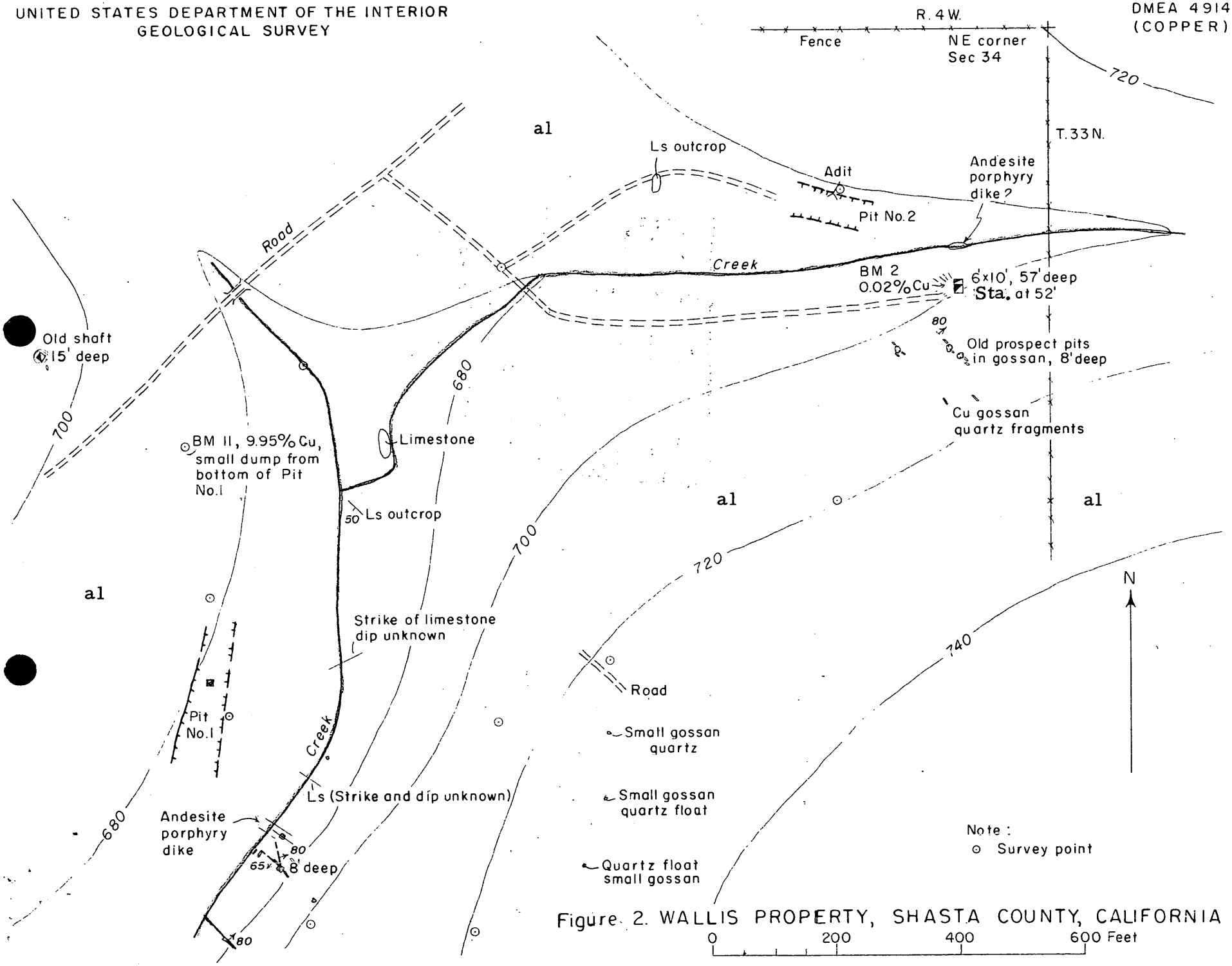


Figure 2. WALLIS PROPERTY, SHASTA COUNTY, CALIFORNIA

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