DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3045

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EXPLORATION ASSISTANCE

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One copy to USGS. & USBM. One copy retained in Region III.

Routing Slip

To:	Code 400, Room 3538	Date	5/26/53
To:	Oper Com	Date	6-5-53
To:	Oper Com	Date	8-12-53
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400

AUG 13 1953

3045
Tungsten

Mr. Fred E. Miller
1070 Lincoln Avenue
San Jose, California

Re: Docket No. DMEA 3045 - Tungsten
Lucky Strike claims
Secs. 20, 21 & 29; T. 6 S.; R. 20 E.
Mariposa County, California

Dear Mr. Miller:

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 judgment, 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 tungsten mineralization on the Lucky Strike claims, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
8-5-53
cc: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. 3
R. W. Geehan, USBM
D. M. Lemmon, USGS

August 5, 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $7,370.00
Docket No. DMEA 3045 - Tungsten
Fred E. Miller
Lucky Strike Claims
Sec. 20, 21 & 29; T. 6 S.; R. 20 E.
Mariposa County, California

The denial of the subject application by this Division is based on the following information:

(1) The applicant proposed to bulldoze the overburden off the contact of a limestone with granodiorite to uncover a "vein" for its full length, estimated at 4,500 feet, followed by cross trenching using a jackhammer to determine the length and width of the so-called vein.

(2) The only known occurrence of scheelite on the Lucky Strike claims is in a tactite mass at the eastern contact of a limestone with granodiorite. This limestone is a part of an elongate pendant of metamorphic rocks consisting of interbedded, coarsely crystalline limestone and quartz-mica schist. The scheelite is present as widely-spaced crystals ¼-inch to 1½ inches long in a tactite zone that is about 30 feet long and 1½ to 5 feet wide. Samples of the scheelite-bearing tactite contain 0.02 to 0.03 percent WO_3.

(3) The examining field team recommends denial of the referenced application.

(4) The Field Team recommends denial.

(5) The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in the denial.

FARutledge:foc
cc: Docket
Code 400
Adm. Reading File

SIGNED

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

400

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

July 24, 1953

Memorandum

WSM

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3045 - Tungsten
Fred E. Miller
Lucky Strike Claims, Secs. 20, 21, & 29, T.6S., R.20E.
Mariposa County, California

Reference is made to your request dated June 5, 1953, for a field examination of the Lucky Strike tungsten claims.

Attached are four copies of a report entitled, "DMEA-3045, Lucky Strike claims, (Tungsten), Mariposa County, California," by Lorin D. Clark, Geologist, U.S.G.S., dated July 14, 1953.

The examining geologist found scheelite to occur on the claims as widely separated crystals 1/4 inch to 1-1/2 inches long in a zone 30 feet long and 1-1/2 to 5-1/2 feet wide, within a tactite mass. Samples of the scheelite-bearing tactite were assayed and found to contain 0.02 to 0.03 percent WO_3.

In view of the exceedingly low grade of the ore and the small size of the deposit, the examining geologist recommends against granting a DMEA loan. From the evidence found by the geologist as is brought out in his report, Mr. Bailey and I agree with his conclusions.

As the project is not recommended, the applicant was not instructed to obtain Owner's Consent to Lien forms or to have the Lucky Strike No. 3 claim recorded.

S. RICKER

S. Ricker for
H. C. Miller
Executive Officer, DMEA Field Team
Region III

Attachment

Reviewed by
DMEA OPERATING COMMITTEE
8-3-53
(date)

Copy to: A. C. Johnson, Reno (With copy of report)
E. H. Bailey, USGS

[illegible]
[illegible] DEPARTMENT OF THE INTERIOR
[illegible] OF THE INTERIOR, D. [illegible]

[illegible]

[illegible] OF [illegible] BY FIELD TEAM
REGION III

DMEA 3045, Lucky Strike claims, (Tungsten)

Mariposa County, California

Lorin D. Clark
U. S. Geological Survey

July 14, 1953

Reviewed by
DMEA OPERATING COMMITTEE
8-3-53
(date)

Summary and Recommendations

The only known occurrence of scheelite on the Lucky Strike claims is in a tactite mass. Scheelite is present as widely-spaced crystals up-inch to 1½ inches long in a zone that is about 30 feet long and 1½ to 5½ feet wide. It is exposed by an open cut and pit. Samples of the scheelite-bearing tactite contain 0.02 to 0.03 per cent WO_3, about 0.025 per cent copper, and negligible quantities of gold and silver.

Because of the exceedingly low grade of the ore and small size of the deposit, it is recommended that a DMEA loan be denied.

Introduction

The Lucky Strike tungsten claims, DMEA 3045, Mariposa County, California are in the Stumpfield Mountain, 7½-minute quadrangle. The claims include the Lucky Strike Nos. 1 and 2 in sec. 2[illegible], and Lucky Strike No. 3 in secs. 21 and 29, T. [illegible] S., R. 20 E.

The claims were visited by Richard Peck and Lorin Clark of the U. S. Geological Survey on June 18, 19, and 20, at the request of H. C. Miller, Executive Officer for DMEA, Region III. They were accompanied on the first day of the examination by Mr. William Bolton, and on the second day by Mr. Bolton, and the applicant, Mr. Fred H. Miller.

Geology

The Campfield Mountain quadrangle is underlain largely by granitic rocks which are interrupted on the surface by masses of metamorphic rock, presumably roof pendants. Such pendants form the crest of Crook Mountain, Indian Peak, and the minor ridge near the Lucky Strike claims. Gold, copper, and tungsten mineralization is associated with the contacts of the metamorphic rocks with the granitic rocks.

The Lucky Strike tungsten claims are on the east contact of an elongate pendant of metamorphic rocks (see fig. 1). The long axis of the pendant trends about N. 15° E. The metamorphic rocks consist of interbedded, coarsely crystalline limestone and quartzose schist which probably belong to the Calaveras formation. On both sides of the pendant is medium-grained hornblende-biotite granodiorite. Beds in the pendant strike about N. 45° W. and dip northwest 65 to 85 degrees. The contact between the granodiorite and metamorphic rocks on the claims strikes northerly to N. 15° E. and is essentially vertical.

Very small masses of garnet-epidote tactite are present at several places at the contact between granodiorite and calcareous rocks. Thin, closely-spaced stringers of garnet are common in the metamorphic rocks. The best development of tactite on the Lucky Strike claims is at the open cut.

Workings and Tungsten Deposit

Workings consist of an open cut about 60 feet long, a pit about 15 feet deep, and a tunnel about 6 feet long at the bottom of the pit. A landslide obscures about 20 feet of bedrock formerly exposed by the open cut.

The workings expose a tactite mass about 60 feet long and from 6 inches to 8 feet wide (Fig. 2). The tactite is cut by quartz veins, and, in the bottom of the pit and in the adit, by an east-dipping granodiorite dike. The part of the tactite that contains scheelite is between 25 and 35 feet long and 1½ to 5½ feet wide. The scheelite occurs as widely-spaced crystals ¼-inch to 2 inches long. Virtually no finely-disseminated scheelite is present. The scheelite fluoresces blue-white under ultra-violet light.

Associated with the scheelite are minor amounts of chalcopyrite, chalcocite, and pyrite. Five samples taken from the workings were assayed by the Hydrometallurgy and Ore Dressing Branch of the Bureau of Mines, Reno, Nevada, and the results are given below.

Sample No.	% WO_3	% Cu	Oz Au/T	Oz Ag/T
15-1	0.02	0.02	Trace	Trace
2	<0.02	0.02	Trace	Trace
3	<0.02	0.03	0.005	Trace
4	0.03	0.03	0.005	Trace
5	0.02	0.02	<.02	Trace

< less than

The locations and lengths of cuts of samples 1 to 4 are shown on the attached detailed map and section (Fig. 2). Sample No. 5 is a representative grab sample from a nearby dump or stockpile of material taken from the workings. The stockpile is estimated to weigh about 15 tons.

Mr. Fred E. Miller stated that he had not examined the Lucky Strike claims with an ultra-violet light except at the workings. Because of the exceedingly low tenor of the ore in the workings, the rest of the contact was not prospected with ultra-violet light by the writer.

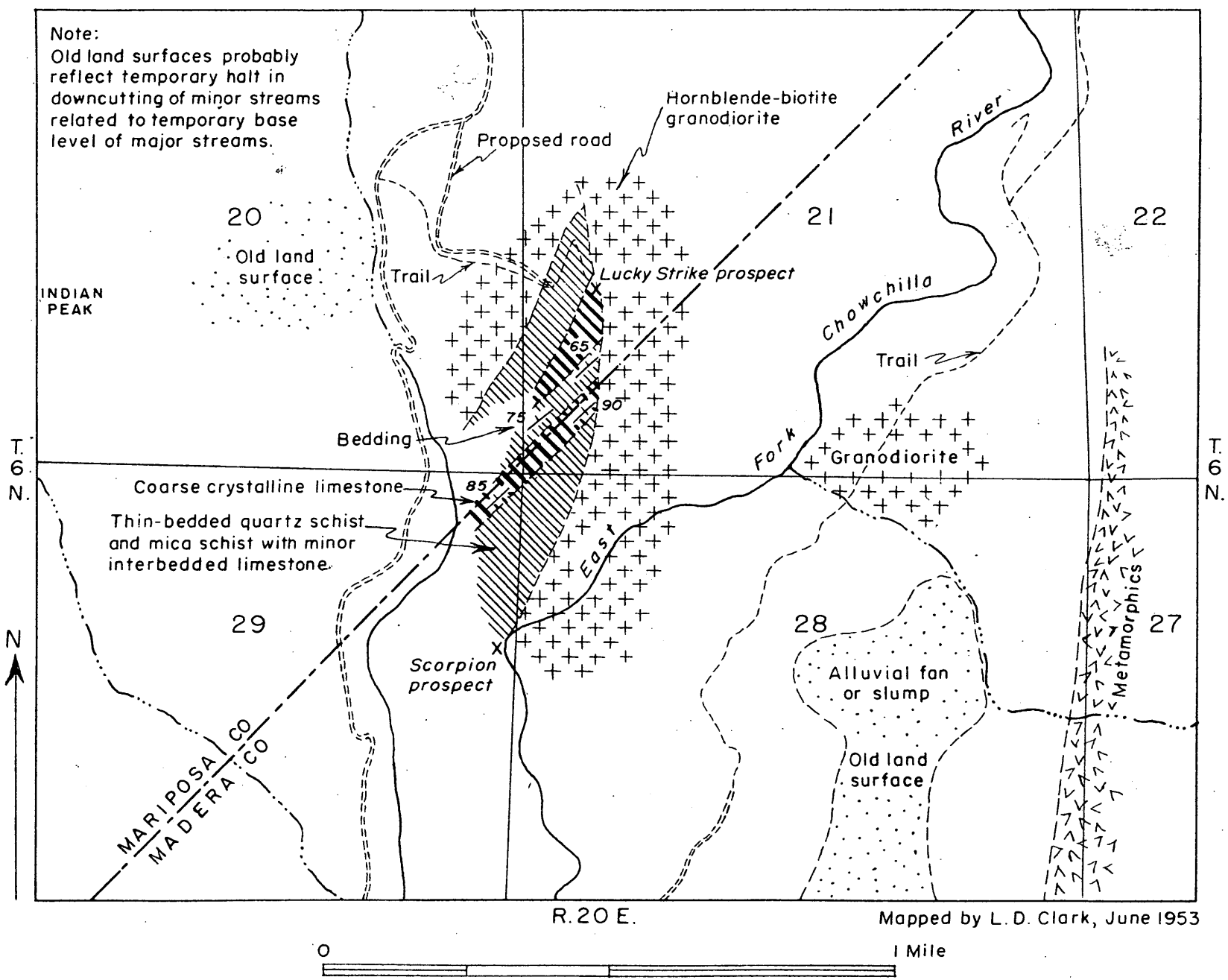


Figure 1. Sketch map of Lucky Strike prospect and vicinity, Mariposa and Madera Counties, California

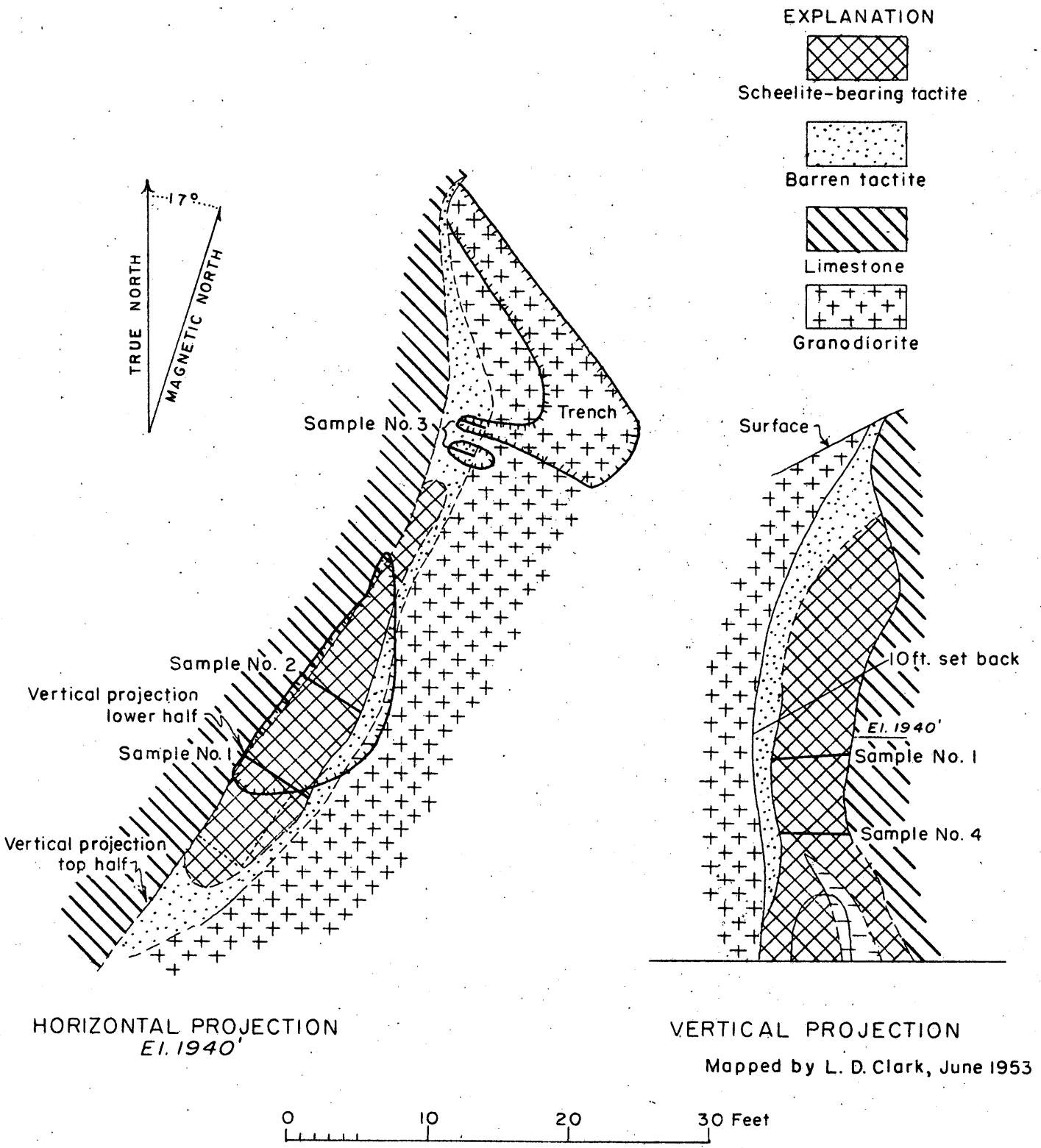


Figure 2. Sketch map of Lucky Strike tungsten prospect, Mariposa County, California

400

JUN 5 1953

Mr. Fred E. Miller
1070 Lincoln Avenue
San Jose, California

Re: Docket No. DMEA 3045 - Tungsten
Lucky Strike claims
Secs. 20, 21, & 29, T. 6 S., R 20 E
Mariposa County, California

Dear Mr. Miller:

This will acknowledge receipt of your application for assistance in exploring for tungsten at the Lucky Strike claims in Mariposa County, California. After a review by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration, the subject application has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

The Regional Office will contact you with regard to an examination of your property. Any assistance that you can render the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

FARutledge:foc
6-3-53
cc: Docket
Code 400
FT. Reg. III
Adm. Reading File
Operating Comm.
R. W. Geehan, USBM
D. M. Lemmon, USGS

400

JUN 5 1953

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3045 - Tungsten
Lucky Strike claims
Secs. 20, 21, & 29, T. 6 S., R. 20 E.
Mariposa County, California

Dear Mr. Miller:

Reference is made to the subject application for exploration assistance which is being referred to your office for a field examination.

In reviewing the application, the following points were noted which should be discussed with the applicant if a project is recommended:

1. The use of the operator's equipment will be on a depreciation basis at a monthly rate equal to 1/60 of present value.

2. Owner's consent to Lien forms will be required.

3. Lucky Strike No. 3 will have to be recorded and book and page number secured.

A memorandum by D. M. Lemmon, U. S. Geological Survey has been prepared and is enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

Enclosure

FAButledge:foc
6-3-53
cc: Docket
Code 400
FT. Reg. III
Oper. Comm.
Adm. Read. File

cc: R.W. Geehan, USBM
D. M. Lemmon, USGS

IN REPLY REFER TO:

G-MD-DML

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

June 1, 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application $7,370 — DMEA-3045
Lucky Strike Claims — Tungsten
Secs. 20, 21, 29, T. 6 S., R. 20 E.
Mariposa County, California

The applicant proposes to build a road and to explore a tactite "vein" by bulldozer trenches and by pits. No satisfactory geologic or assay map is submitted.

The Geological Survey has no information about this property. I suggest that the application be referred to the Field Team for investigation.

D. M. Lemmon

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Fred E Miller

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 25 1953

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. dmea 3045
Metal or Mineral
Date Received 5-25-53
Estimated Cost
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: Fred E. Miller
1070 Lincoln Avenue
San Jose, California

(*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 3 mining claims Lucky Strike No. 1 & 2 in Section 20 T 6 South, Range 20 East M. D. B. & M. as recorded in Vol A-2 page 508 and Vol A-2 page 524 Maps & Mining Records of Mariposa County & Lucky Strike No. 3 in Madera County, in Sections 21 and 29 Township 6 South Range 20 East M. D. B. & M. not yet recorded.

(*b*) State any mine name by which the property is known. Lucky Strike Nos. 1-2-3

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise 5 year lease, and as long thereafter as there is commercial ore not to exceed 99 years.

(*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.

(*e*) If you own the land, describe any liens or encumbrances on it Leasehold

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

5. *The exploration project.*—State the mineral or minerals for which you wish to explore Calcium Tungstate (scheelite)

(*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 10 days and be completed within 3 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 [X] Use of equipment owned by you [X] Other Suporvision

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 May 18th, 1953

Fred E. Miller
(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

Fred E Miller

4a. Page one of application

Vein crops out on hillside about 400 feet above the floor of the valley and has been stripped down approximately 15 feet and 65 feet in width along vein. A shaft has been sunk on one end of the cut which shows scheelite with lamp across 6 feet of vein lying between gray lime and decomposed granite. This operation has been done by the discoverer of the ledge and upon which I hold the above described lease. There is no underground workings and can be examined from the surface.

4b. No past or present production as this is a new discovery. About 20 tons milling ore on hand and about the same amount in sight.

4c. The geologic features of the property:

The structure extends some 4500 feet in length, lime outcropping the entire length. Gray lime on the foot wall and decomposed granite on the hanging wall with a mineralized vein of approximately 6 feet in width of which runs from 1/4 of 1% to 15.62%.

Tungsten (scheelite) The division of mines laboratory reports that the sample of the vein submitted to them for determination was found to be a metamorphic rock composed of white quartz (silicon dioxide), brownish red garnet (calcium, iron, aluminum silicate), green epidote (calcium, iron, aluminum silicate), and cream-colored scheelite (calcium tungstate).

My reasons for wanting to explore this property are:

1. The geology is right for tungsten.

2. We have the vein opened about 65 feet and tungsten from 1/4 of 1% to 15.62% has been taken out, and indicates that it extends all along the lime outcrop.

3. The Government needs the tungsten and it would be a genuine contribution to the defense effort to make this property into a producing mine.

4. Can be explored with reasonable cost.

4d. The property is reached by a surfaced road from 99 Hiway to Raymond then 25 miles of dirt road running up the North side of the East fork of Chowchilla River to within 1250 feet of the property.

Also surfaced road from 99 Hiway through Mariposa and Bootjack to the summit, 10 miles southeast of Mariposa. Then dirt road 7 miles to within 1250 feet of the property. Both are all winter roads and accessible by car or truck.

Is located 35 miles from Railroad, 17 miles to Mariposa, a supply and resident point. Tent House camp to be located 2500 feet from property, adjacent to fine domestic water supply.

4e. Manpower is available in vicinity, enough local miner residents located nearby, sawmills in vicinity, supplies and equipment are available in Mariposa. Abundance of water adjacent to property for milling. P. G. & E. power two miles from property. Millsite adjacent or on property.

5b. The proposed work consists of bulldozing road from present road to project 1/4 mile which is very negligable at a cost not to exceed $250.00.

Bulldozing off the overburden at the contact (mineralized zone) full length of vein, following up with compressor and Jackhammer to explore further into and expose the vein.

By bulldozing off the surface of the veins, it will be also building road the full length of property so as to be reached by portable compressor for further exploration.

5D. The applicant and supervisor, Fred E. Miller, started mining with his father in 1910 in Leadnile, Colorado, at the age of 16--worked for him underground until 1916.

Employed by Empire Zinc Company at Beldon, Colorado, as machine and timberman in the Iron Mask Mine for two years, then as timber and machine man for the Black Iron Mine at Red Cliff for the same company for two years.

Employed at the Empire Zinc Company Lead and Zinc Mill for 2 1/2 years as table man, Roastors, crusher man.

Employed at Douglas Mountain Copper Mining Company, Rock Springs, Wyo. for 1 1/2 years running drilling machine and timbering for that company.

In 1935 owned and operated Gold Mine and Mill at Needles doing custom milling of tungsten until 1942.

Supervised bulldozer work at Santa Cruz in 1949 on filling and leveling city lots.

6. Estimate of Costs:

a. Independent Contracts.

Bulldozer work--hourly contract 20 days @ $10.00 per hour.		$1600.00

b. Labor-supervision-consultants

60 days--2 men @ $15.00 per day		1800.00
Supervision--60 days $20.00		1200.00
Geological Consultants--10 days @$50.00		500.00

c.

Jackhammer Steel	$ 50.00	
Star bits	200.00	
Gasoline & Oil	250.00	
Powder, caps, fuse	200.00	700.00

d. 60 cubic feet portable compressor, Jackhammer, hose

60 days @ 125.00-250.00		250.00
GMC pick up truck	use allowance	50.00
Mineral Lamp		20.00

E EXISTING Bldg, (CAMP) REPAIRS Roof, Floor, Windows + Doors 200.00

Fred E Miller

f. None

g. Miscellaneous:

Analytical work		200.00
Workmans' Comp.	$150.00	
Emp. Liab. Ins.	150.00	
Payroll taxes	50.00	350.00
h. Contingencies		500.00
		$7370.00

7b. Supervisors	$1200.00
Use of Equipment	70.00
Money	572.50
	$1842.50

The applicant owns a pickup G. M. C. 3/4 ton truck to use on the job , also mineral light. These items were put in at $35.00 per month or $70.00 for the 90 day period.

Fred E Miller

Copy
Fred E. Miller

MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the undersigned, J. A. DAVIS, MRS. VERA M. DAVIS, his wife, are the owners of the following described unpatented mining claims, hereinafter called the Lessor, being the owners, and said property being situated and lying in the Mariposa Mining District, at or near the Chowchilla River and one mile easterly from Indian Peak in the County of Mariposa, State of California, and particularly described as follows, to-wit:

Lucky Strike Mining Claims Nos. One (1) Two (2) in section 20, township 6 South, Range 20 East M. D. B. and M., as recorded in Vol. A-2, page 508 and Vol. A-2 page, 524, of Maps and Mining Records of Mariposa County, California.

WHEREAS, said mining claims are owned by the lessors and free and clear of all encumbrances, liens, or lawful claims of any person or persons, save and except the Government of the United States,

WHEREAS, a proposal to lease and work said claims, F. E. MILLER, hereinafter called the Lessee, and said proposal being agreeable and acceptable to the said Lessors,

NOW, THEREFORE, THIS AGREEMENT WITNESSETH:

That the said Lessors do hereby, for and in consideration of the rents, royalties, covenants, and agreements hereinafter expressed and provided, lease, let and demise the said mining claims, unto the Lessees, to have and to hold the same for the purpose of mining from and after the execution of this agreement and continuing as hereinafter provided, five years ending April 18, 1958, and as long thereafter as there is any commercial ore, not to exceed 99 years.

And Lessees, in consideration of the premises, have covenanted, contracted, and agreed and by these presents do agree to and with Lessors as follows:

1. To enter in and upon said leased premises and take possession thereof as soon as practicable after the execution of this Agreement, and to work the same diligently as hereinafter

defined in mine fashion, usual and customary to good and economical mining, or milling so as to market the greatest amount of ore possible with due regard to the development and preservation of said mines and mining premises, as a workable mining property.

2. To work the said mine and premises, with at least 10 eight hour shifts per month with reasonable diligence,

3. To timber said mine at all points where proper in accordance with good mining.

4. To keep a complete record of the entire output of the mine, and said records shall be open to the Lessors for inspection at any reasonable time.

5. Lessee to have free use of all water on premises, also free use of surface ground and water necessary for the operation of mine and mill and ingress and egress to same on land owned by Wm. Belter as per an agreement with him to accept one-half of his 10% royalty.

6. Lessors shall post notices of non-responsibility at or near the shaft house and Lessee agrees to maintain same and protect against removal.

7. That the Lessees shall pay to Lessors collectively the following royalty: Ten per cent (10%) of the gross proceeds or returns from sale of concentrates or ore mined or milled from mining claims payable on the first day of each calendar month to said Lessors at their designated address.

8. The Lessors covenants with the Lessees that they are the owners, entitled to and in possession of the mining claims hereinafter referred to, subject only to the rights of the United States Government and that the same are free from all encumbrances, and that they have a good right to lease the same, as aforesaid, and that they will and their heirs, executors, and administrators shall warrant and defend the same against the claims of all persons whomsoever excepting the Government of the United States of America.

9. This agreement shall be binding upon and its benefits insured to the parties hereto and their respective heirs,

executors, administrators, and assigns.

IN WITNESS WHEREOF the parties have hereunto set their hands this 18th day of April, 1953.

J. A. DAVIS.

VERA M. DAVIS
Lessors

F. E. MILLER
Lessee

Notarized & recorded.

Copy

ADDITIONS TO EXISTING MINING LEASE

WE THE UNDERSIGNED, owners of the Lucky Strike Tungsten Mining Claim No. 3 situated in Sections 21 and 28 Township 6 South, Range 20 east M. D. B. & M. Madera County, California do hereby include the Lucky Strike Tungsten No. 3 Mining Claim in existing lease now held by F. E. Miller dated April 18, 1953 on Lucky Strike No. 1 & No. 2 Mining Claims and shall be attached to and made a part thereof, under the same terms and conditions set forth in said lease on Lucky Strike No. 1 & No. 2 Mining Claims.

DATED May 15, 1953

Signed Lessors:

J. A. Davis

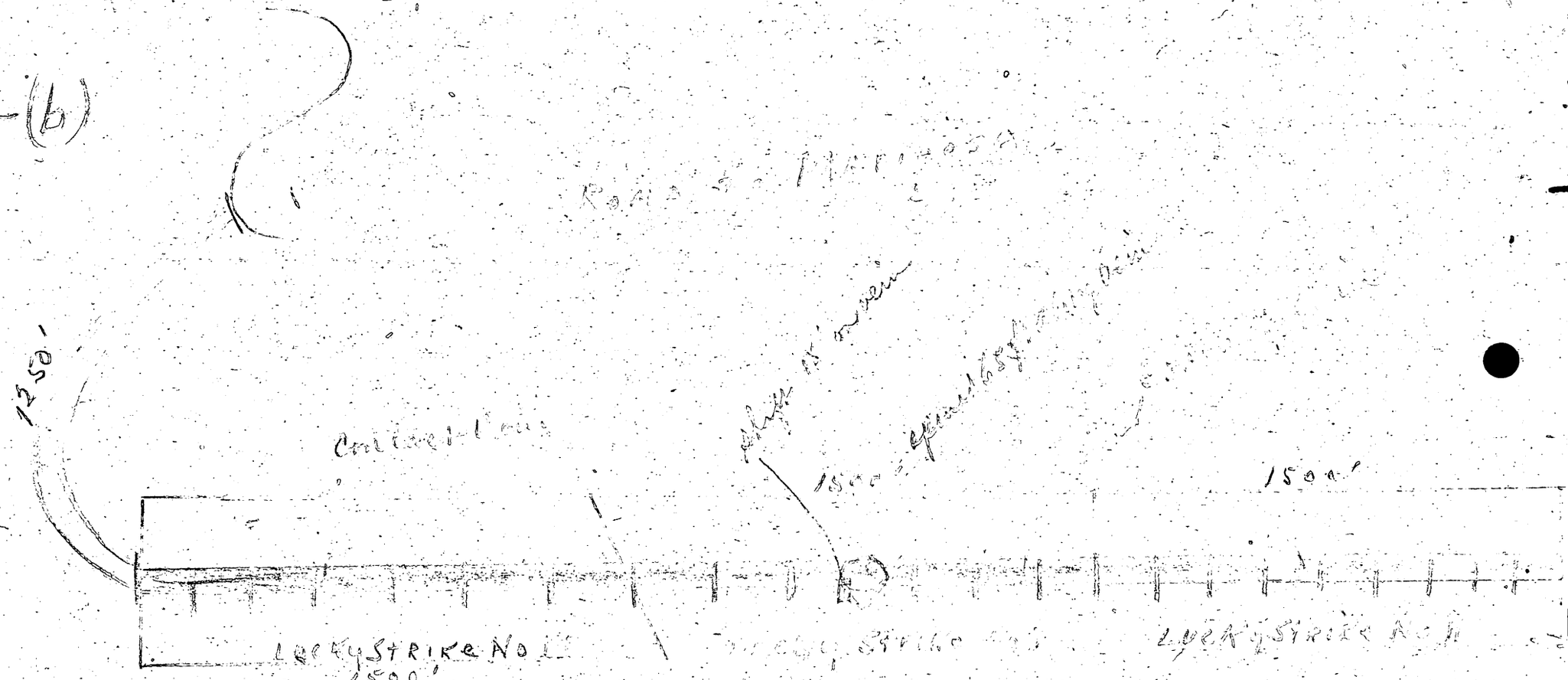
Vera M. Davis

Lessee:

F. E. Miller

Notarized + Recorded Fred E. Miller

5-(b)



Red indicates proposed exploration drift to be driven by Bulldozer

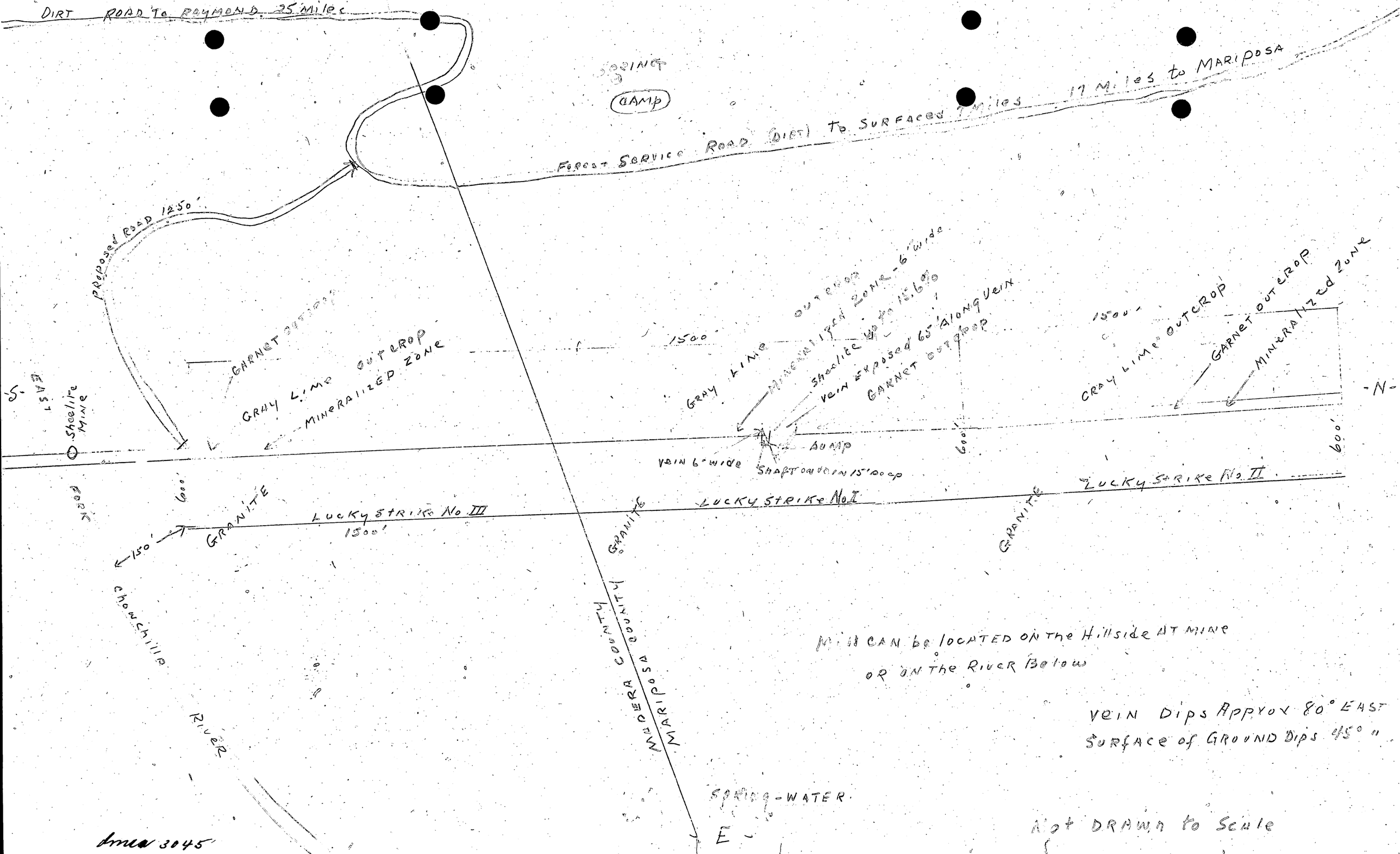
IIII Indicates trees to be cut with bulldozer & [illegible] to determine length & direction of line

Indicates new road from Tower Barrier Road to [illegible]

dmcw 3045

-W- Jumbo TUNGSTON DISC

FRED E. MILLER



Mill CAN be LOCATED ON The Hillside AT MINE
OR ON The RIVER Below

VEIN Dips APPROX 80° EAST
SURFACE of GROUND Dips 45° "

Not DRAWN to Scale

Area 3045

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE ELECTRIC POWER ADMINISTRATION
WASHINGTON 25, D. C.

FILE COPY
SURNAME: 9B

400

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

AUG 13 1953

Rutledge
Martin
Geehan
Lemmon
Paulsel
Hedges
Selfridge

Mr. Fred E. Miller
1070 Lincoln Avenue
San Jose, California

Re: Docket No. DMEA 3045 - Tungsten
Lucky Strike claims
Secs. 20, 21 & 29; T. 6 S.; R. 20 E.
Mariposa County, California

Dear Mr. Miller:

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 judgment, 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 tungsten mineralization on the Lucky Strike claims, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

FARutledge:foc
8-5-53
cc: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. 3
R. W. Geehan, USBM
D. M. Lemmon, USGS

8-13-53

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

August 5, 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $7,370.00
Docket No. DMEA 3045 - Tungsten
Fred E. Miller
Lucky Strike Claims
Secs. 20, 21 & 29; T. 6 S.; R. 20 E.
Mariposa County, California

The denial of the subject application by this Division is based on the following information:

(1) The applicant proposed to bulldoze the overburden off the contact of a limestone with granodiorite to uncover a "vein" for its full length, estimated at 4,500 feet, followed by cross trenching using a jackhammer to determine the length and width of the so-called vein.

(2) The only known occurrence of scheelite on the Lucky Strike claims is in a tactite mass at the eastern contact of a limestone with granodiorite. This limestone is a part of an elongate pendant of metamorphic rocks consisting of interbedded, coarsely crystalline limestone and quartz-mica schist. The scheelite is present as widely-spaced crystals $\frac{1}{4}$-inch to $1\frac{1}{2}$ inches long in a tactite zone that is about 30 feet long and $1\frac{1}{2}$ to 5 feet wide. Samples of the scheelite-bearing tactite contain 0.02 to 0.03 percent WO_3.

(3) The examining field team recommends denial of the referenced application.

(4) The Field Team recommends denial.

(5) The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in the denial.

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

FILE COPY
400 SURNAME:

Rutledge
Martin
Hudson
Simmon
Selfridge

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

August 5, 1953

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of exploration project in the amount of $7,370.00
Docket No. DMEA 3045 - Tungsten
Fred E. Miller
Lucky Strike Claims
Secs. 20, 21 & 29; T. 6 S.; R. 20 E.
Mariposa County, California

The denial of the subject application by this Division is based on the following information:

(1) The applicant proposed to bulldoze the overburden off the contact of a limestone with granodiorite to uncover a "vein" for its full length, estimated at 4,500 feet, followed by cross trenching using a jackhammer to determine the length and width of the so-called vein.

(2) The only known occurrence of scheelite on the Lucky Strike claims is in a tactite mass at the eastern contact of a limestone with granodiorite. This limestone is a part of an elongate pendant of metamorphic rocks consisting of interbedded, coarsely crystalline limestone and quartz-mica schist. The scheelite is present as widely-spaced crystals ½-inch to 1½ inches long in a tactite zone that is about 30 feet long and 1½ to 5 feet wide. Samples of the scheelite-bearing tactite contain 0.02 to 0.03 percent WO_3.

(3) The examining field team recommends denial of the referenced application.

(4) The Field Team recommends denial.

(5) The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in the denial.

FARutledge:foc
cc: Docket
Code 400
Adm. Reading File

SIGNED
R. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

8-13-53

MF-509

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 7/29/53

REFERRED TO:

1. Code 400 Room 3538
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS:

Check (X) before the items needing attention.

ilb

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

Docket

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

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

July 24, 1953 WSM

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3045 - Tungsten
Fred E. Miller
Lucky Strike Claims, Secs. 20, 21, & 29, T.6S., R.20E.
Mariposa County, California

Reference is made to your request dated June 5, 1953, for a field examination of the Lucky Strike tungsten claims.

Attached are four copies of a report entitled, "DMEA-3045, Lucky Strike claims, (Tungsten), Mariposa County, California," by Lorin D. Clark, Geologist, U.S.G.S., dated July 14, 1953.

The examining geologist found scheelite to occur on the claims as widely separated crystals 1/4 inch to 1-1/2 inches long in a zone 30 feet long and 1-1/2 to 5-1/2 feet wide, within a tactite mass. Samples of the scheelite-bearing tactite were assayed and found to contain 0.02 to 0.03 percent WO_3.

In view of the exceedingly low grade of the ore and the small size of the deposit, the examining geologist recommends against granting a DMEA loan. From the evidence found by the geologist as is brought out in his report, Mr. Bailey and I agree with his conclusions.

As the project is not recommended, the applicant was not instructed to obtain Owner's Consent to Lien forms or to have the Lucky Strike No. 3 claim recorded.

S. Ricker for
H. C. Miller
Executive Officer, DMEA Field Team
Region III

Attachment

Cleared OC
8-3-53

Copy to: A. C. Johnson, Reno (With copy of report)
E. H. Bailey, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
SECRETARY OF THE INTERIOR, D. MCKAY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

8/12/53

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3045, Lucky Strike claims, (Tungsten)

Mariposa County, California

Lorin D. Clark
U. S. Geological Survey

July 14, 1953

Reviewed by
DMEA OPERATING COMMITTEE

8-3-53
(date)

Summary and Recommendations

The only known occurrence of scheelite on the Lucky Strike claims is in a tactite mass. Scheelite is present as widely-spaced crystals $\frac{1}{4}$-inch to $1\frac{1}{2}$ inches long in a zone that is about 30 feet long and $1\frac{1}{2}$ to $5\frac{1}{2}$ feet wide. It is exposed by an open cut and pit. Samples of the scheelite-bearing tactite contain 0.02 to 0.03 per cent WO_3, about 0.025 per cent copper, and negligible quantities of gold and silver.

Because of the exceedingly low grade of the ore and small size of the deposit, it is recommended that a DMEA loan be denied.

Introduction

The Lucky Strike tungsten claims, DMEA 3045, Mariposa County, California are in the Stumpfield Mountain, $7\frac{1}{2}$-minute quadrangle. The claims include the Lucky Strike Nos. 1 and 2 in sec. 20, and Lucky Strike No. 3 in secs. 21 and 29, T. 6 S., R. 20 E.

The claims were visited by Richard Pack and Lorin Clark of the U. S. Geological Survey on June 18, 19, and 20, at the request of H. C. Miller, Executive Officer for DMEA, Region III. They were accompanied on the first day of the examination by Mr. William Bolton, and on the second day by Mr. Bolton, and the applicant, Mr. Fred E. Miller.

Geology

The Stumpfield Mountain quadrangle is underlain largely by granitic rocks which are interrupted on the surface by masses of metamorphic rock, presumably roof pendants. Such pendants form the crest of Crook Mountain, Indian Peak, and the minor ridge near the Lucky Strike claims. Gold, copper, and tungsten mineralization is associated with the contacts of the metamorphic rocks with the granitic rocks.

The Lucky Strike tungsten claims are on the east contact of an elongate pendant of metamorphic rocks (see fig. 1). The long axis of the pendant trends about N. 15° E. The metamorphic rocks consist of interbedded, coarsely crystalline limestone and quartz-mica schist which probably belong to the Calaveras formation. On both sides of the pendant is medium-grained hornblende-biotite granodiorite. Beds in the pendant strike about N. 45° E. and dip northwest 65 to 85 degrees. The contact between the granodiorite and metamorphic rocks on the claims strikes northerly to N. 15° E. and is essentially vertical.

Very small masses of garnet-epidote tactite are present at several places at the contact between granodiorite and calcareous rocks. Thin, closely-spaced stringers of garnet are common in the metamorphic rocks. The best development of tactite on the Lucky Strike claims is at the open cut.

Workings and Tungsten Deposit

Workings consist of an open cut about 60 feet long, a pit about 15 feet deep, and a tunnel about 6 feet long at the bottom of the pit. A landslide obscures about 20 feet of bedrock formerly exposed by the open cut.

The workings expose a tactite mass about 60 feet long and from 6 inches to 8 feet wide (fig. 2). The tactite is cut by quartz veins, and, in the bottom of the pit and in the adit, by an east-dipping granodiorite dike. The part of the tactite that contains scheelite is between 25 and 35 feet long and $1\frac{1}{2}$ to $5\frac{1}{2}$ feet wide. The scheelite occurs as widely-spaced crystals $\frac{1}{4}$-inch to 2 inches long. Virtually no finely-disseminated scheelite is present. The scheelite fluoresces blue-white under ultra-violet light.

Associated with the scheelite are minor amounts of chalcopyrite, chalcocite, and pyrite. Five samples taken from the workings were assayed by the Hydrometallurgy and Ore Dressing Branch of the Bureau of Mines, Reno, Nevada, and the results are given below.

Sample No.	%, WO_3	%, Cu	Oz Au/T	Oz Ag/T
LS-1	0.02	0.02	Trace	Trace
2	*0.02	0.02	Trace	Trace
3	*0.02	0.03	0.005	Trace
4	0.03	0.03	0.005	Trace
5	0.02	0.02	0.02	Trace

* less than

The locations and lengths of cuts of samples 1 to 4 are shown on the attached detailed map and section (fig. 2). Sample No. 5 is a representative grab sample from a nearby dump or stockpile of material taken from the workings. The stockpile is estimated to weigh about 15 tons.

Mr. Fred E. Miller stated that he had not examined the Lucky Strike claims with an ultra-violet light except at the workings. Because of the exceedingly low tenor of the ore in the workings, the rest of the contact was not prospected with ultra-violet light by the writer.

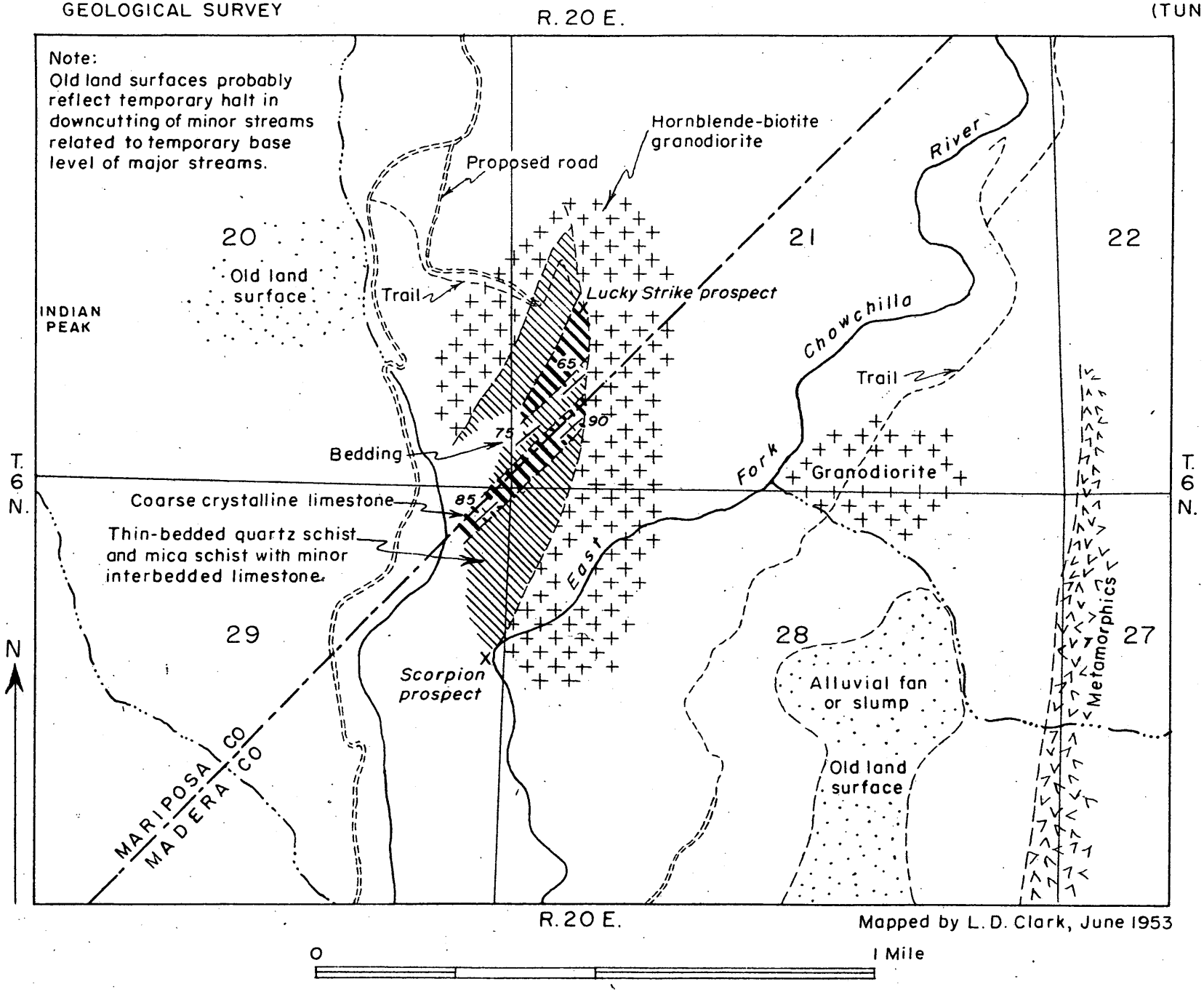


Figure 1. Sketch map of Lucky Strike prospect and vicinity, Mariposa and Madera Counties, California

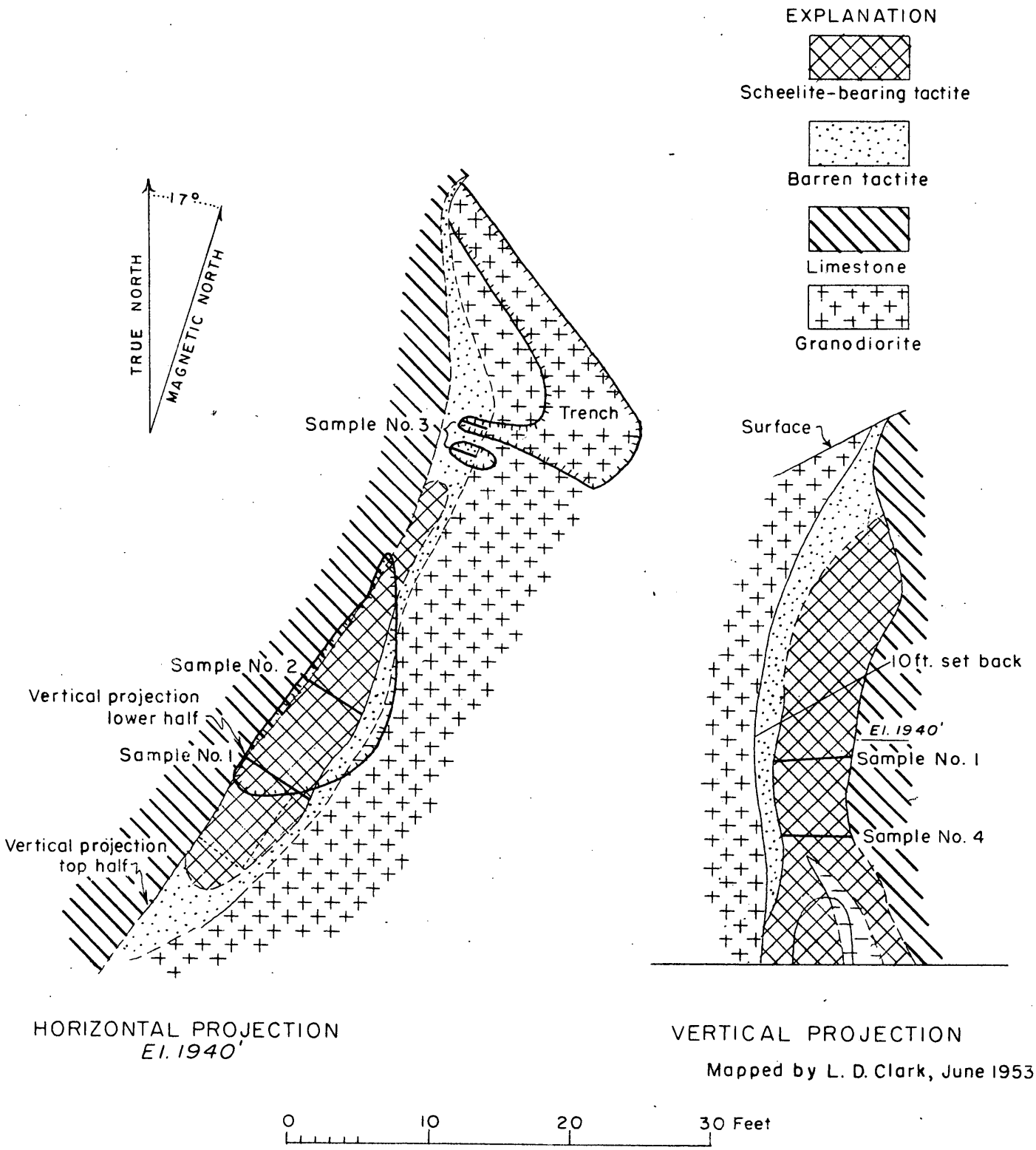


Figure 2. Sketch map of Lucky Strike tungsten prospect, Mariposa County, California

FILE COPY
SURNAME:

400

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

Rutledge
Martin
Mahony
Perlitz
Hedges
Jeffrey
Johnson

JUN 5 1953

Mr. Fred E. Miller
1070 Lincoln Avenue
San Jose, California

Re: Docket No. DMEA 3045 - Tungsten
Lucky Strike claims
Secs. 20, 21, & 29, T. 6 S., R 20 E
Mariposa County, California

Dear Mr. Miller:

This will acknowledge receipt of your application for assistance in exploring for tungsten at the Lucky Strike claims in Mariposa County, California. After a review by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration, the subject application has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

The Regional Office will contact you with regard to an examination of your property. Any assistance that you can render the members of the Field Team during the examination will be appreciated.

Sincerely yours,
C. O. Mittendorf
Administrator

6-5-53

FARutledge:foc
6-3-53
cc: Docket
Code 400
FT. Reg. III
Adm. Reading File
Operating Comm.
R. W. Geehan, USBM
D. M. Lemmon, USGS

FILE COPY
SURNAME:

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

JUN 5 1953

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3045 - Tungsten
Lucky Strike claims
Secs. 20, 21, & 29, T. 6 S., R. 20 E.
Mariposa County, California

Dear Mr. Miller:

Reference is made to the subject application for exploration assistance which is being referred to your office for a field examination.

In reviewing the application, the following points were noted which should be discussed with the applicant if a project is recommended:

1. The use of the operator's equipment will be on a depreciation basis at a monthly rate equal to 1/60 of present value.

2. Owner's consent to Lien forms will be required.

3. Lucky Strike No. 3 will have to be recorded and book and page number secured.

A memorandum by D. M. Lemmon, U. S. Geological Survey has been prepared and is enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

Enclosure

FARutledge:foc
6-3-53
cc: Docket
Code 400
FT. Reg. III
Oper. Comm.
Adm. Read. File
cc: R.W. Geehan, USBM
D. M. Lemmon, USGS

Docket

IN REPLY REFER TO:

G-MD-DML

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

June 1, 1953

WSM

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application $7,370 — DMEA-3045
Lucky Strike Claims — Tungsten
Secs. 20, 21, 29, T. 6 S., R. 20 E.
Mariposa County, California

The applicant proposes to build a road and to explore a tactite "vein" by bulldozer trenches and by pits. No satisfactory geologic or assay map is submitted.

The Geological Survey has no information about this property. I suggest that the application be referred to the Field Team for investigation.

D. M. Lemmon

D. M. Lemmon

Copy retained 400

May 25, 1953

Mr. Fred E. Miller
1070 Lincoln Avenue
San Jose, California

Subject: DMEA-3045
Re: Exploration Assistance
Lucky Strike Claims No. 1, 2 and 3

My dear Mr. Miller:

The receipt of your application dated May 18, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3045 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-3045 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

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

May 25, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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 III.

DMEA - 3045 Fred E. Miller

ROBERT E. ADAMS

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

38226

dmea 3045

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

Office of
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

May 19, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan application forms MF-103 - Fred E. Miller, 1070 Lincoln Avenue, San Jose, California. (Tungsten)

Attached are three sets of MF-103 forms received in this office on May 18 from Mr. Fred E. Miller. The fourth copy is being retained in this office.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 25 1953

dmea 3045

Office of
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

May 19, 1953

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan application forms MF-103 - Fred E. Miller, 1070 Lincoln Avenue, San Jose, California. (Tungsten)

Attached are three sets of MF-103 forms received in this office on May 18 from Mr. Fred E. Miller. The fourth copy is being retained in this office.

N. C. MILLER
H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 25 1953

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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. dmea 3045
Metal or Mineral
Date Received 5-25-53
Estimated Cost
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: Fred E. Miller
1070 Lincoln Avenue
San Jose, California

(*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 3 mining claims Lucky Strike No. 1 & 2 in Section 20 T 6 South, Range 20 East M. D. B. & M. as recorded in Vol. A-2 page 508 and Vol A-2 page 524 Maps & Mining Records of Mariposa County & Lucky Strike No. 3 in Madera County, in Sections 21 and 29 Township 6 South Range 20 East M. D. B. & M. not yet recorded.

(*b*) State any mine name by which the property is known Lucky Strike Nos. 1-2-3

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise 5 year lease, and as long thereafter as there is commercial ore not to exceed 99 years.

(*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.

(*e*) If you own the land, describe any liens or encumbrances on it Leasehold

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 25 1953

5. *The exploration project.*—(*a*) [illegible]te the mineral or minerals for which you w[illegible]o explore Calcium Tungstate (Scheelite)

(*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 10 days and be completed within 3 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 [X] Use of equipment owned by you [X] Other Supervision

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 May 18th, 1953

Fred. E. Miller
(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

Fred. E. Miller

4a. Page one of application

Vein crops out on hillside about 400 feet above the floor of the valley and has been stripped down approximately 15 feet and 65 feet in width along vein. A shaft has been sunk on one end of the cut which shows sheelite with lamp across 6 feet of vein lying between gray lime and decomposed granite. This operation has been done by the discoverer of the ledge and upon which I hold the above described lease. There is no underground workings and can be examined from the surface.

4b. No past or present production as this is a new discovery. About 20 tons milling ore on hand and about the same amount in sight.

4c. The geologic features of the property:

The structure extends some 4500 feet in length, lime outcropping the entire length. Gray lime on the foot wall and decomposed granite on the hanging wall with a mineralized vein of approximately 6 feet in width of which runs from 1/4 of 1% to 15.62%.

Tungsten (sheelite) The division of mines laboratory reports that the sample of the vein submitted to them for determination was found to be a metamorphic rock composed of white quartz (silicon dioxide), brownish red garnet (calcium, iron, aluminum silicate), green epidote (calcium, iron, aluminum silicate), and cream-colored sheelite (calcium tungstate).

My reasons for wanting to explore this property are:

1. The geology is right for tungsten.

2. We have the vein opened about 65 feet and tungsten from 1/4 of 1% to 15.62% has been taken out, and indicates that it extends all along the lime outcrop.

3. The Government needs the tungsten and it would be a genuine contribution to the defense effort to make this property into a producing mine.

4. Can be explored with reasonable cost.

4d. The property is reached by a surfaced road from 99 Hiway to Raymond then 25 miles of dirt road running up the North side of the East fork of Chowchilla River to within 1250 feet of the property.

Also surfaced road from 99 Hiway through Mariposa and Bootjack to the summit, 10 miles southeast of Mariposa. Then dirt road 7 miles to within 1250 feet of the property. Both are all winter roads and accessible by car or truck.

Is located 35 miles from Railroad, 17 miles to Mariposa, a supply and resident point. Tent camp to be located 2500 feet from property, adjacent to fine domestic water supply.

4e. Manpower is available in vicinity, enough local miner residents located nearby, sawmills in vicinity, supplies and equipment are available in Mariposa. Abundance of water adjacent to property for milling. P. G. & E. power two miles from property. Millsite adjacent or on property.

5b. The proposed work consists of bulldozing road from present road to project 1/4 mile which is very negligable at a cost not to exceed $250.00.

Bulldozing off the overburden at the contact (mineralized zone) full length of vein, following up with compressor and Jackhammer to explore further into and expose the vein.

By bulldozing off the surface of the veins, it will be also building road the full length of property so as to be reached by portable compressor for further exploration.

5d. The applicant and supervisor, Fred E. Miller, started mining with his father in 1910 in Leadnile, Colorado, at the age of 16--worked for him underground until 1916.

Employed by Empire Zinc Company at Beldon, Colorado, as machine and timberman in the Iron Mask Mine for two years, then as timber and machine man for the Black Iron Mine at Red Cliff for the same company for two years.

Employed at the Empire Zinc Company Lead and Zinc Mill for 2 1/2 years as table man, Roasters, crusher man.

Employed at Douglas Mountain Copper Mining Company, Rock Springs, Wyo. for 1 1/2 years running drilling machine and timbering for that company.

In 1935 owned and operated Gold Mine and Mill at Needles doing custom milling of tungsten until 1942.

Supervised bulldozer work at Santa Cruz in 1949 on filling and leveling city lots.

Fred E. Miller

6. Estimate of Costs:

a. Independent Contracts.

Bulldozer work--hourly contract 20 days @ $10.00 per hour.		$1600.00

b. Labor-supervision- consultants

60 days--2 men @ $15.00 per day		1800.00
Supervision -- 60 days $20.00		1200.00
Geological Consultants--10 days @ $50.00		500.00

c.

Jackhammer Steel	$ 50.00	
Star bits	200.00	
Gasoline & Oil	250.00	
Powder, caps, fuse	200.00	700.00

d. 60 cubic feet portable compressor, Jackhammer, hose

60 days @ 125.00-250.00		250.00
GMC pick up truck	use allowance	50.00
Mineral Lamp		20.00

e. ~~Existing Building (camp) repairs, repair, roof, floor windows & doors~~ ~~200.00~~

e.	Existing Building (camp) repairs, repair, roof, floor windows & doors		$200.00
f.	None		
g.	Miscellaneous:		
	Analytical work		200.00
	Workmans' Comp.	$150.00	
	Emp. Liab. Ins.	150.00	
	Payroll taxes	50.00	350.00
h.	Contingencies		500.00
			$7370.00

7b.	Supervisors	$1200.00
	Use of Equipment	70.00
	Money	572.50
		$1842.50

The applicant owns a pickup G. M. C. 3/4 ton truck to use on the job, also mineral light. These items were put in at $35.00 per month or $70.00 for the 90 day period.

Fred E Miller

Copy.
Fred E. Miller

MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the undersigned, J. A. DAVIS, MRS. VERA M. DAVIS, his wife, are the owners of the following described unpatented mining claims, hereinafter called the Lessor, being the owners, and said property being situated and lying in the Mariposa Mining District, at or near the Chowchilla River and one mile easterly from Indian Peak in the County of Mariposa, State of California, and particularly described as follows, to-wit:

Lucky Strike Mining Claims Nos. One (1) Two (2) in section 20, township 6 South, Range 20 East M. D. B. and M., as recorded in Vol. A-2, page 508 and Vol. A-2 page, 524, of Maps and Mining Records of Mariposa County, California.

WHEREAS, said mining claims are owned by the lessors and free and clear of all encumbrances, liens, or lawful claims of any person or persons, save and except the Government of the United States,

WHEREAS, a proposal to lease and work said claims, F. E. MILLER, hereinafter called the Lessee, and said proposal being agreeable and acceptable to the said Lessors,

NOW, THEREFORE, THIS AGREEMENT WITNESSETH:

That the said Lessors do hereby, for and in consideration of the rents, royalties, covenants, and agreements hereinafter expressed and provided, lease, let and demise the said mining claims, unto the Lessees, to have and to hold the same for the purpose of mining from and after the execution of this agreement and continuing as hereinafter provided, five years ending April 18, 1958, and as long thereafter as there is any commercial ore, not to exceed 99 years.

And Lessees, in consideration of the premises, have covenanted, contracted, and agreed and by these presents do agree to and with Lessors as follows:

1. To enter in and upon said leased premises and take possession thereof as soon as practicable after the execution of this Agreement, and to work the same diligently as hereinafter

defined in mine fashion, usual and customary to good and economical mining, or milling so as to market the greatest amount of ore possible with due regard to the development and preservation of said mines and mining premises, as a workable mining property.

2. To work the said mine and premises, with at least 10 eight hour shifts per month with reasonable diligence,

3. To timber said mine at all points where proper in accordance with good mining.

4. To keep a complete record of the entire output of the mine, and said records shall be open to the Lessors for inspection at any reasonable time.

5. Lessee to have free use of all water on premises, also free use of surface ground and water necessary for the operation of mine and mill and ingress and egress to same on land owned by Wm. Boltor as per an agreement with him to accept one-half of his 10% royalty.

6. Lessors shall post notices of non-responsibility at or near the shaft house and Lessee agrees to maintain same and protect against removal.

7. That the Lessees shall pay to Lessors collectively the following royalty: Ten per cent (10%) of the gross proceeds or returns from sale of concentrates or ore mined or milled from mining claims payable on the first day of each calendar month to said Lessors at their designated address.

8. The Lessors covenants with the Lessees that they are the owners, entitled to and in possession of the mining claims hereinafter referred to, subject only to the rights of the United States Government and that the same are free from all encumbrances, and that they have a good right to lease the same, as aforesaid, and that they will and their heirs, executors, and administrators shall warrant and defend the same against the claims of all persons whomsoever excepting the Government of the United States of America.

9. This agreement shall be binding upon and its benefits insured to the parties hereto and their respective heirs,

executors, administrators, and assigns.

IN WITNESS WHEREOF the parties have hereunto set their hands this 18th day of April, 1953.

J. A. DAVIS

VERA M. DAVIS
Lessors

F. E. MILLER
Lessee

Notarized &
Recorded.
Fred E. Miller

Copy

ADDITIONS TO EXISTING MINING LEASE

WE THE UNDERSIGNED, owners of the Lucky Strike Tungsten Mining Claim No. 3 situated in Sections 21 and 28 Township 6 South, Range 20 east M. D. B. & M. Madera County, California, do hereby include the Lucky Strike Tungsten No. 3 Mining Claim in existing lease now held by F. E. Miller dated April 18, 1953, on Lucky Strike No. 1 & No. 2 Mining Claims and shall be attached to and made a part thereof, under the same terms and conditions set forth in said lease on Lucky Strike No. 1 & No. 2 Mining Claims.

DATED May 15, 1953.

Signed Lessors:

J. A. DAVIS

VERA M. DAVIS

Lessee:

F. E. MILLER

Notarized & Recorded

Fred E. Miller

dmea 3045
4-(6)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF MINES

FERRY BUILDING, SAN FRANCISCO 11

LABORATORY REPORT

April 15, 1953

Mr. F. E. Miller
1070 Lincoln Avenue
San Jose, California

No. E 8702

Dear Mr. Miller:

This is to acknowledge your letter of April 12.

The sample submitted for determination has been examined and found to be a metamorphic rock composed of white quartz (silicon dioxide), brownish-red garnet (calcium, iron, aluminum silicate), green epidote (calcium, iron, aluminum silicate), and cream-colored scheelite (calcium tungstate).

Yours very truly,

OLAF P. JENKINS
CHIEF, DIVISION OF MINES
By

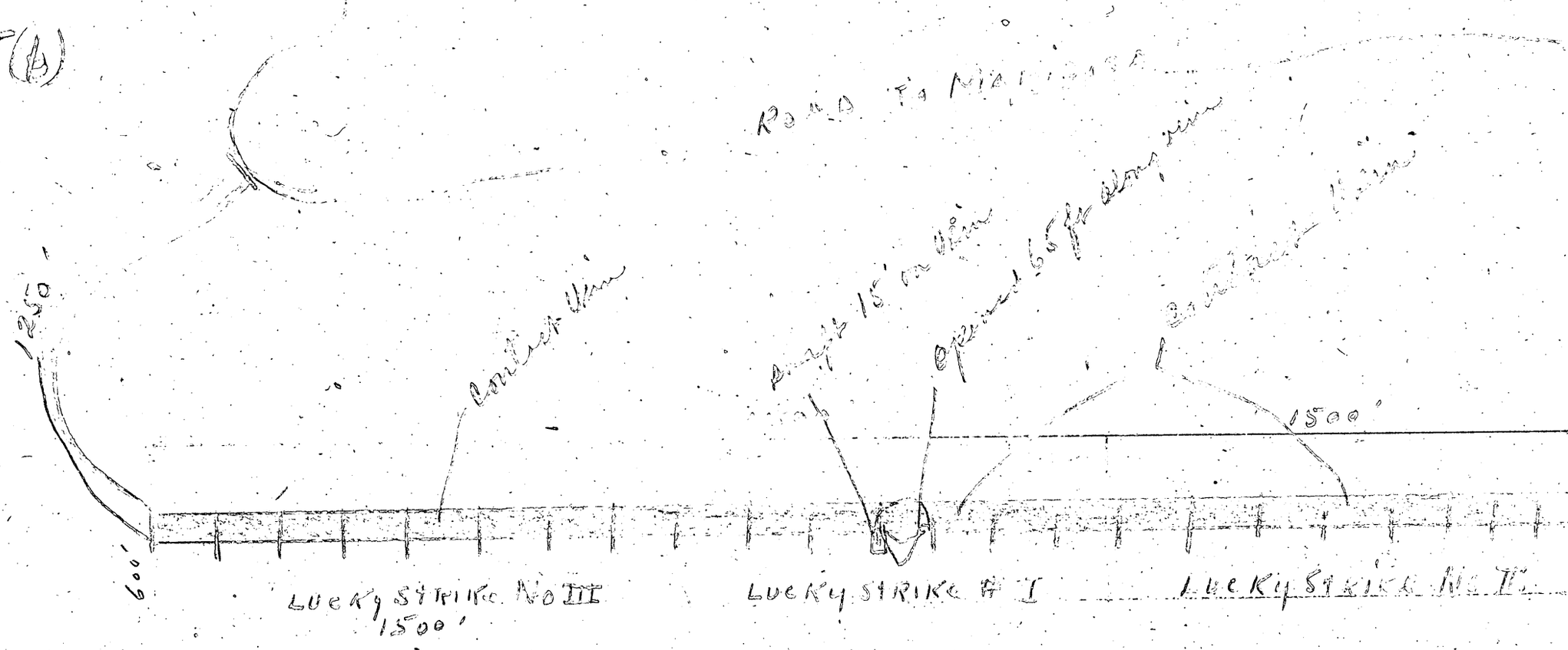
George L. Gary
Mineral Technologist

glg-hk

48433 8-51 5M DUP SPO

Road to Raymond

5(b)



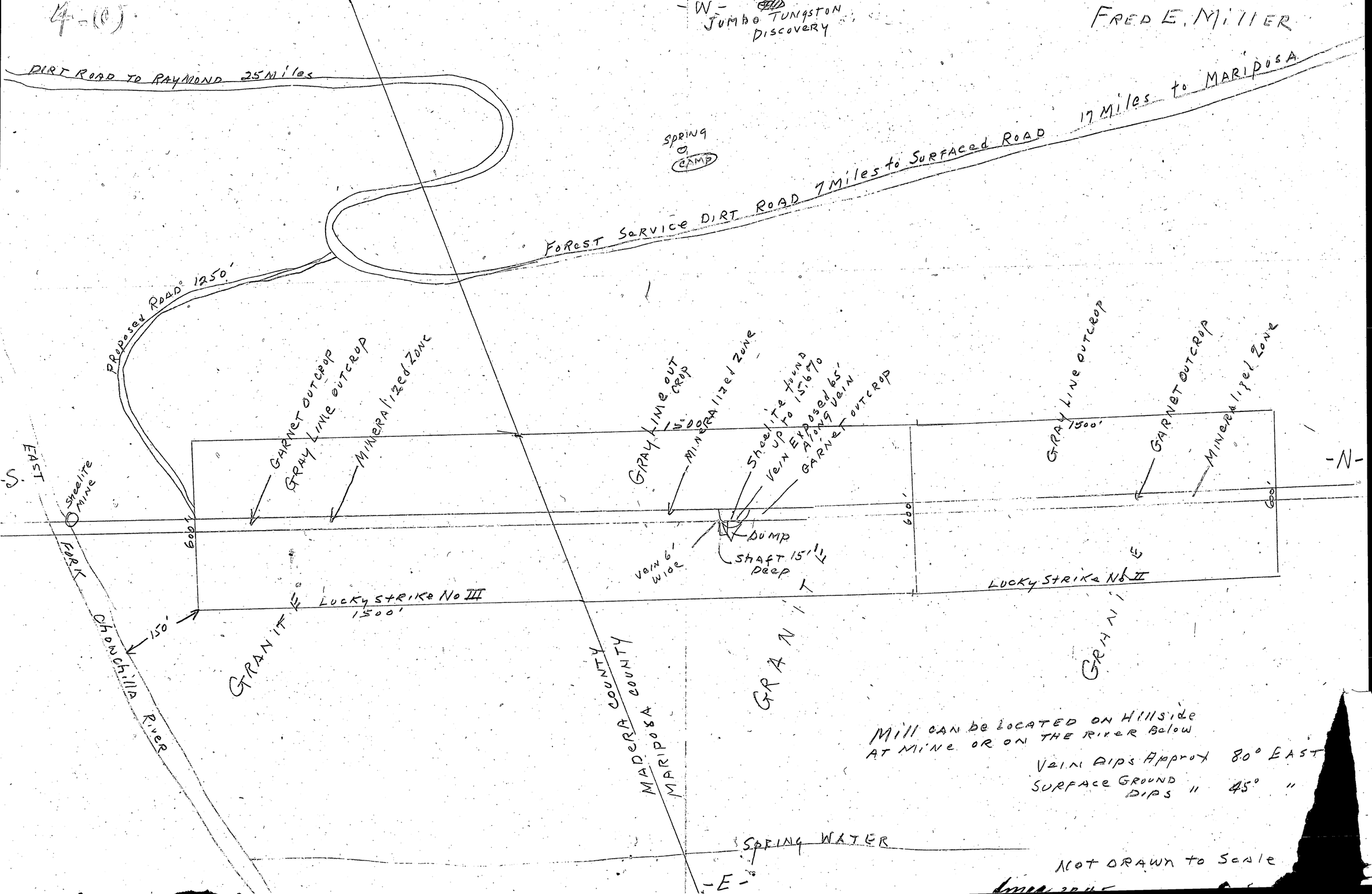
Red indicates proposed exploration work to be carried out by Bulldozer

Indicates cross trenching with compressor & jackhammers to determine length & direction of vein

Indicates new road from Forest Service road to property, Bulldozer work

Not drawn to scale

dmcc 3045

4-(C)

FRED E. MILLER