DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. DMEU-3228

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Exploration Assistance

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

1 cy. to USBM, USGS, Region, Docket

Routing Slip

To:	400	Date	12-29-53
To:	Oper Comm	Date	1-13-54
To:	400	Date	1-14-54
To:	Oper Comm	Date	3-26-54
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3228

MAR 2 6 1954

Mr. David B. Hempstead
Box 631
Beverly Hills, California

Re: Docket No. DMEA 3228 - Tungsten
Blue Jay & Blue Jay No. 2 claims
San Bernardino County, Calif.

Dear Mr. Hempstead:

Your application for aid for an exploration project and other data available to us in Washington concerning the above-named 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 small amounts of tungsten mineralization on your property, 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, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

cc: DOCKET
FT, REG. III
CODE 400
OPER. COMM
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

JHopkins/ls
3/24/54

March 24, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $12,233.77 to $17,483.77
Docket No. DMEA 3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

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

(1) The applicant requested exploration assistance in the amount of $12,233.77 (4-months' program) to $17,483.77 (6-months' program) to explore for tungsten on the Blue Jay and Blue Jay No. 2 claims, San Bernardino County, California.

(2) The Blue Jay claims contain scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, which dip steeply within a 25- to 40-foot thick wedge-like screen of calcareous rock included in granitic rocks.

(3) The lenses extend discontinuously for a length of 130 feet and become smaller with depth, and may pinch out entirely a few feet below the workings.

(4) The tungsten mineral scheelite is most concentrated in a lens in the face of a 4-foot high drift that extends 12 feet north from the 25-foot shaft.. The lens is 3 feet long by 2 feet wide in the back and narrows to 6 inches at the floor. Two samples from this pocket assayed 2.34% WO_3 and 0.62% WO_3 respectively.

(5) This pocket is only a remnant of the larger lens worked out by the 25-foot deep open pit around the shaft.

(6) Using a tonnage factor of 10 cubic feet, and allowing a depth of 50 feet, a width of 3 feet, and a length of 100 feet, an inferred block of scheelite-bearing rock amounting to 1500 tons is calculated. Using a dilution factor of 0.5 to allow for the spotty distribution of scheelite replaces the estimated contained value of 1% WO_3 by 0.5% WO_3 and makes the estimated inferred ore 750 tons selectively mined and sorted to grade 1% WO_3.

(7) The relatively small size of the calcareous-silicate and marble body precludes the existence of other deposits of equal or greater size and grade.

(8) The examiners conclude that the meager returns to be expected from the applicant's proposal do not warrant DMEA participation in an exploration project at the Blue Jay claims.

(9) The Field Team recommends that no consideration be given to DMEA participation in an exploration project at the Blue Jay claims.

(10) The Commodity Divisions of the U. S. Geological Survey and Bureau of Mines concur with the recommendation of the Field Team.

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

cc: DOCKET
CODE 400
ADM. READ. FILE
OPER. COMM.

JHopkins/ls
3/24/54

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

400
Release Control
MAR 19 1954

March 18, 1954

Memorandum

To: W. S. Martin, DMEA

From: P. W. Guild, U.S. Geological Survey

Subject: Docket No. DMEA-3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 Claims
San Bernardino County, California

The Field Team recommends denial. I concur.

cc: WSMartin (3)

400

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

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

March 12, 1954

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 No. DMEA-3228 - Tungsten
David D. Hempstead
Blue Jay and Blue Jay No. 2 Claims
San Bernardino County, California

Reference is made to your letter dated January 14, 1954, requesting a review and field examination of the subject property.

Attached are four copies of an examination report entitled "DMEA-3228, Blue Jay and Blue Jay No. 2 Claims, San Bernardino County, California, (Tungsten)," by J. F. Robertson and H. R. Stager, Geologists, U. S. Geological Survey, and F. J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, dated March 5, 1954.

According to the examining engineer and geologists, the Blue Jay claims contain scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, which dip steeply within a 25 to 40 foot thick wedge-like screen of calcareous rocks included in granitic rocks. The lenses extend discontinuously for a length of 130 feet and become smaller with depth, and may pinch out entirely a few feet below the workings.

The proposed work is not justified as the meager returns expected from such exploration do not warrant the expense. It is recommended that no consideration be given to DMEA participation in an exploration project at the Blue Jay claim.

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

Attachment

Copy to: Roscoe Smith, USGS

Thru OC 3/19/54

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3228, Blue Jay and Blue Jay No. 2 Claims

San Bernardino County, Calif.

(Tungsten)

J. F. Robertson, Geologist
H. R. Stager, Geologist
U. S. Geological Survey

F. J. Wiebelt, Mining Engineer
U. S. Bureau of Mines

March 5, 1954

EXAMINATION REPORT

Docket No.: DMEA-3228 (Tungsten)

Name and address of applicant: David B. Hempstead
Box 631
Beverly Hills, Calif.

Name and location of property: Blue Jay and Blue Jay No. 2 Claims
San Bernardino County, Calif.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Blue Jay claim contains scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, which dip steeply within a 25 to 40-foot thick wedge-like screen of calcareous rocks included in granitic rocks. The lenses extend discontinuously for a length of 130 feet and become smaller with depth, and may pinch out entirely a few feet below the workings.

The applicant has proposed an exploration project consisting of 100 feet of crosscut, 150 feet of drifting, and 150 feet of raising at an estimated cost of from $12,233 to $17,483.

It is estimated that the proposed work will probably not develop more than 1,500 tons of ore of 0.5% WO_3 content or 750 tons of rock selectively mined and sorted to 1.0% WO_3 content.

If the applicant could receive $38.00 per short unit for this sorted ore at the mill, the Government's return (5% of the mill returns) would amount to $1.90 per ton, or about $1,425 total. On that basis the Government could not possibly be reimbursed for the amount of its

participation for practically any program of exploration that might be considered.

It is recommended that no consideration be given to DMEA participation in an exploration project at the Blue Jay claim.

The examiners, consisting of Jacques F. Robertson and Harold Stager of the U. S. Geological Survey and Frank J. Wiebelt of the Bureau of Mines spent the evening of January 27, 1954 on the property. No other person accompanied the examiners.

NAME AND LOCATION OF PROPERTY

The Blue Jay and Blue Jay No. 2 claims are situated 25 miles by road northeasterly of Barstow, California in San Bernardino County, California.

The property is accessible by automobile from Barstow, California by following U.S. Highway 91 northerly one mile from its intersection with U. S. Highway 66 and then turn left and go 0.6 mile to the Camp Erwin road. Follow the latter road 6.5 miles and turn left on the Goldstone road and continue on this road (through Dodsons and past Williams well) 16.5 miles at which point turn right and proceed 0.4 mile to the Blue Jay mine campsite. The mine ore bin and mine workings are 0.1 mile by road from the campsite.

ACCESSIBILITY

The first 8.1 miles of road to the property are paved roads; the remainder consists of 6.3 miles of good graded dirt road and 10.6

miles of typical desert improved dirt road. The property is accessible throughout the year.

COMPETENCY OF APPLICANT

Nothing is known concerning the competency of the applicant. Mr. Dion L. Gardner, who was to supervise the project for the applicant is known by the examiners to be a very competent geologist and has had considerable experience with tungsten properties, especially at the Atolia Tungsten mines. He is competent to carry out an exploration project.

APPLICANT'S PROPERTY RIGHTS

The applicant is purchasing the property under contract.

DESCRIPTION OF PROPERTY

Surface facilities consist of an ore bin. The only mine equipment on the property is one ore car.

The mine workings consist of a 25-foot deep open pit from which a lens of scheelite-bearing tactite has been mined out, a 12-foot drift from the north end of the bottom of the above pit, a 9-foot deep prospect pit and some bulldozer stripping.

No samples were taken during the examination because lamping operations failed to disclose sufficient scheelite mineralization in the scheelite-bearing tactite lenses.

GEOLOGY

The Blue Jay mine is in a 25- to 40-foot thick wedge-like screen

of calcareous rocks included in granitic rocks. At least two scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, dip steeply within the calcareous body, and extend discontinuously for a length of about 130 feet in a northerly direction. As indicated in the 25-foot deep pit, the lenses become smaller with depth, and may pinch out entirely a few feet below the workings. The deposit is limited by a fault on the south end and by wedging-out of the scheelite-bearing tactite northward from the 9-foot deep prospect pit number 2.

The tungsten mineral scheelite is most concentrated in a lens in the face of the 4-foot high drift that extends 12 feet north from the shaft. The lens is 3 feet long by 2 feet wide in the back and narrows to 6 inches at the floor. Sample No. 1, taken by D. L. Gardner from this pocket near the back, assayed 2.34% WO_3 over a width of 28 inches. Gardner's sample No. 2, near the floor, assayed 0.62% WO_3 over a 27-inch width. Although these assays are encouraging, they are not representative but merely the best available. Scheelite crystals left in the open stope are thinly disseminated with a few spectacular ones approaching 2 cm. in diameter, but no concentrations above a few tenths of one percent were lamped. At the surface, a few spots of scheelite were noted that lamped a trace, and one spot in the 9-foot deep pit lamped an estimated 0.5% WO_3. In the garnetiferous marble and calc-silicate rock scheelite crystals occur sparingly.

The richest lens of scheelite-bearing tactite on the property appears to have been mined out already from the 25-foot deep open pit. The pocket of scheelite ore in the drift is only a remnant of the larger lens, but no other showings contain minable grades of scheelite. The relatively small size of the calc-silicate and marble body precludes the existence of other deposits of equal or greater size and grade. Considering that the calc-silicate and marble are included in granitic rocks, the tactite lenses probably do not continue downward far. Extensions of more than 50 feet below the surface or 25 feet below the open pit are speculative.

ORE RESERVES

In the consultant's report accompanying the application, Mr. Gardner states that an ore body might be developed 100 feet long by 50 feet deep and as much as 5 feet thick, and further observed, "There is room" for "as much as 2,500 tons at 1% or a gross value of $150,000.00". These figures are extravagant. Erratic distribution of scheelite and variable thickness of the scheelite-bearing tactite do not permit calculation of a solid blanket or layer of inferred ore. No pocket observed on the property exceeds 2.5 feet in thickness; combining the two lenses must take into account that the second one is poorer, thinner, and apparently does not extend as far as the number one lens along strike. At the most, only 3 feet total thickness can be accounted for. Allowing a depth of 50 feet and length of 100 feet, an

inferred block of scheelite-bearing rock amounting to 1500 tons is calculated. Using a factor of 0.5 to allow for the spotty distribution of scheelite gives an estimated contained value of 0.5% WO_3 or lower, depending on dilution, or 750 tons of rock selectively mined and sorted to 1% WO_3.

PAST OPERATIONS

The Jay property was located on Feb. 21, 1951 by Mr. Vernon Jay of Barstow, Calif. It is reported to have been leased two or three times with one early lessee reporting 11 tons was mined and milled with other ore. The last lessees, Mr. Red Baird and Mr. J. Martin, are reported to have milled about 4 tons of ore from the property at the Jaylight mill in Barstow. This ore probably contained 1.5% WO_3 according to Mr. Gardner.

MANPOWER AND SUPPLIES

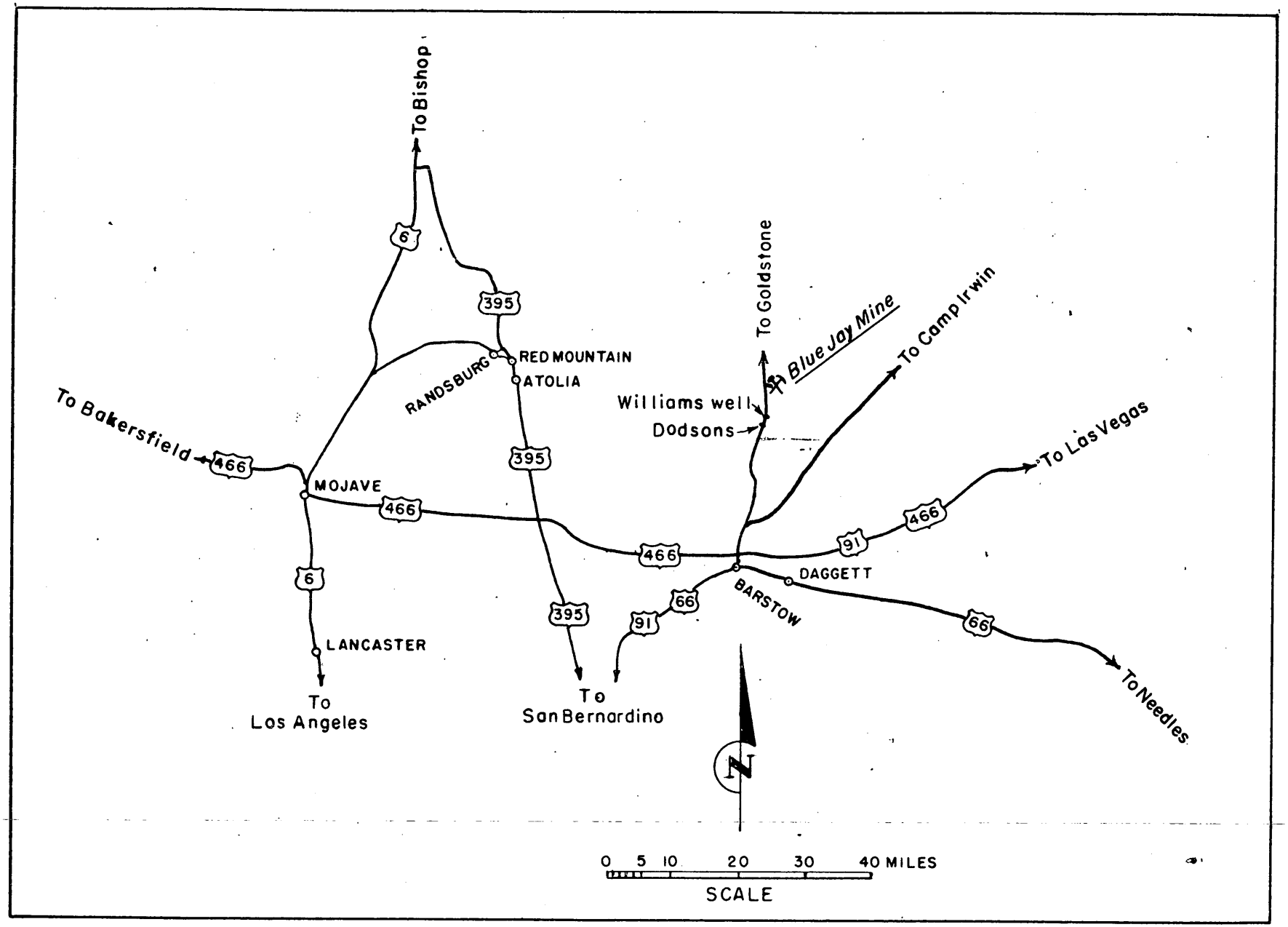
Manpower, materials, supplies and equipment are available from Barstow, Calif. Electric power is not available. Water may be obtained from nearby wells.

APPLICANT'S PROPOSAL

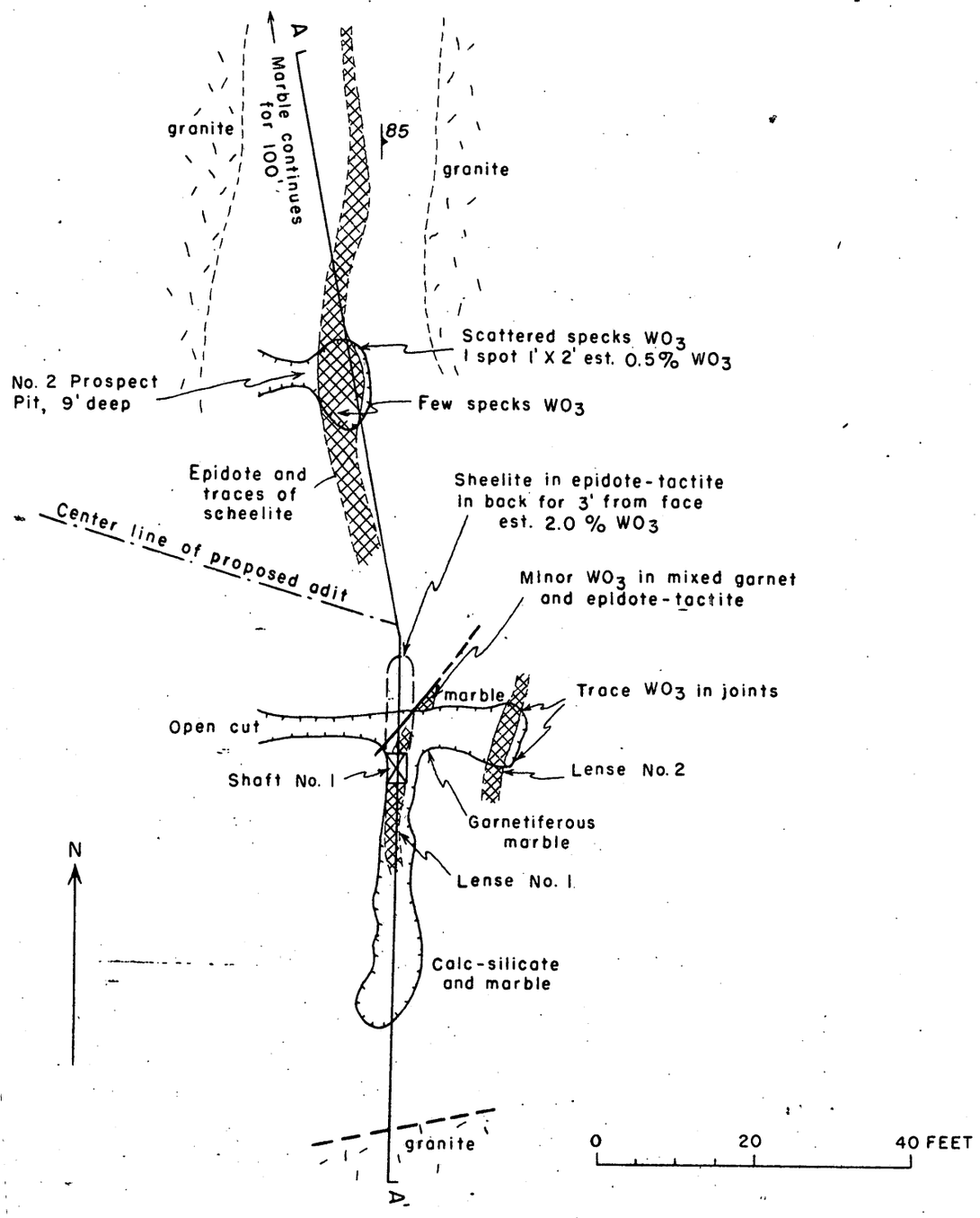
The applicant proposes a 100-foot adit (crosscut) at an elevation of 15 feet below present workings, 100 feet of drifts from the face of this adit and 3 or 4 raises totaling 150 feet.

The above proposed work is not justified. Although deepening

of the present shaft, then drifting, or diamond drilling from the surface would accomplish the same purpose at less cost, the meager returns to be expected from such exploration on the deposit does not warrant the expense.

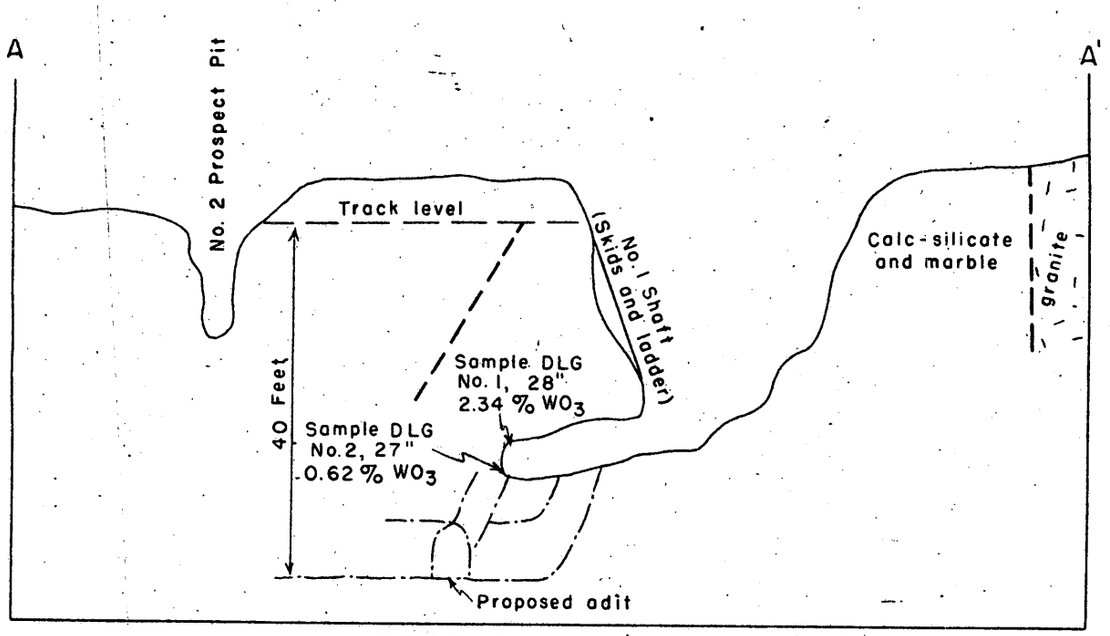


Location map, Blue Jay tungsten mine, San Bernardino County, California.



Copied from map by D. L. Gardner

PLAN



SECTION A-A'

BLUE JAY TUNGSTEN CLAIMS, SAN BERNARDINO COUNTY
CALIFORNIA

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

402

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

January 26, 1954

Memorandum

To: C. O. Mittendorf, Administrator, DMEA, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

We are enclosing photo copy of letter dated January 21, 1954, received from Mr. David B. Hempstead regarding subject docket. We are pleased to note that some people appreciate the attention that they receive from the Defense Minerals Exploration Administration, and thought that you might also be interested.

S. RICKER

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

Attachment

FEB 1 1954

JAN 14 1954

Mr. David B. Hempstead
Box 631
Beverly Hills, California

Re: Docket No. DMA 3228 - Tungsten
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

Dear Mr. Hempstead:

Your application for assistance in exploring a tungsten occurrence on your Blue Jay and Blue Jay No. 2 lode mining claims in San Bernardino County, California, has been reviewed by the Iron and Ferro-Alloys Division, Defense Minerals Exploration Administration, and has been referred to Mr. A. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco, California, for further consideration and a field examination of the property.

At the time an examination is made any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

E. O. Mittenden

Administrator

CC: DOCKET
FT, REG. III
CODE 400
ADM. READ. FILE
R. W. GERMAN, USBM
T. P. HAYES, USGS

JHopkins/ls
1/12/54

400

JAN 14 1954

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 3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

Dear Mr. Miller:

The subject application for exploration assistance is being referred to your office for review and a field examination.

Two copies of a memorandum, dated January 11, 1953, by Mr. T. P. Thayer of the Geological Survey, are enclosed for your information.

The applicant has proposed a 100-foot tunnel to intersect a lens of scheelite-bearing tactite 15 feet below the old workings. During your field examination we suggest that you ascertain whether the same objective could be reached at a lower cost by extending the No. 1 shaft a distance of 15 feet.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

JHopkins/ls
1/12/54

Copy to: DOCKET
ADM. READ. FILE
CODE 400
FT, Reg. 3
R. W. GEEHAN, USBM
T. P. THAYER, USGS
OPER. COMMITTEE

C O P Y

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

400

January 11, 1954

To: W. S. Martin, DMEA

From: T. P. Thayer

Subject: DMEA - 3228 - Tungsten
David B. Hempstead
Box 631
Beverly Hills, California

Blue Jay No. 2
San Bernardino County
California

The applicant proposes to spend $12,233 to $17,483 on 350 feet or more of drifts and raises on a tactite zone in granitic rocks. The deposit appears to have yielded less than 20 tons of ore of uncertain grade.

The applicant's hopes are based on finding ore along the strike of a limestone lens in granitic rocks, in which exploration to date has not been very productive. Reserves are estimated at 150 tons, projected 10 feet along the "vein" around the present stope. Surface work appears to have shown only spotty mineralization.

I am not impressed by the apparent potentialities of the prospect. Before undertaking the proposed underground work, I would recommend much more surface work to determine continuity along strike and mineralization along the granite contracts. The applicant suggests 50 foot depth to the septum, a depth readily reached by diamond drills.

I recommend that the application be referred to the field for examination and evaluation of merit of the proposed work.

T. P. Thayer

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 29 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-3228
Metal or Mineral
Date Received 12-29-53
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: David B. Hempstead
Box 631
Beverly Hills, 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. Those certain unpatented mining claims located in the County of San Bernardino, State of California, described as follows: the Blue Jay No. 2 lode mining claim as recorded in book 317 at page 560, official mining records of San Bernardino County; and the Blue Jay lode mining claim similarly recorded in book 317 at page 294

(*b*) State any mine name by which the property is known.

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See attached schedule

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Blue Jay No. 2 lode mining claim as recorded in book 317 at page 560; and Blue Ja lode mining claim as recorded in book 317, page 294 official mining records of San Bernardino Cty

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. See attached schedule

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

(*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. See attached schedule by Dion L. Gardner, A.I.M.E., A.A.P.G., A.W.W.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. 26 miles NE of Barstow, California, 5 miles NE of Starbright Tungsten Mine

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

16—66551-1

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

(*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. See attached isometric drawing and sketch

(*c*) The work will start within 10 days and be completed within 4 to 6 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. See attached schedule

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. See attached schedule

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

(*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. See attached schedule

(*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. See attached schedule

(*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. See attached schedule

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated December 22, 1953

David B Humphreys
(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

D. D. Hagstead
Box 631
Beverley Hills
California

4 Physical Description

(a) History

The Jay property was located on February 21, 1951 by Mr. Vernon Jay of Benton. It has been leased 2 or 3 times with one early lessee reporting 11 tons of ore which was mixed in milling with other ore. No separate results are available. Some bulldozing and open cuts were made and at least two pits or prospect shafts exist, plus an open cut or stope. An ore bin was built.

The last lessees, Mr. Ned Baird and Mr. J. Martin, installed a headframe and guides to convert the north end of the stope into Shaft #1 and drifted 16 feet to the north from the bottom of this shaft at 25 feet below the level. All workings are accessible at present. A sketch of the claim group is attached.

(b) Production

From this last work about 4 tons of ore were milled at the Jaylight Mill in Benton. 247 pounds of tungsten concentrate were subsequently sold in Bishop. This averaged 53.30% tungsten with .09 phosphorus, 0.00 lead and 0.17 zinc. It contained 6.50 units which would indicate that "sorted ore" would recover about 1.6 units or 16%. This was of course the best available. The scheelite shown is of good grade and can possibly be cleaned to 60% obviating penalties.

Ore Reserves

By extending the workings for 20 feet around this shaft, it is estimated that about 150 tons of ore with an average grade of 15 lb in sight. Two assays, DH 1 @ 2.24% and DH 2 @ 0.62% from this block

are at hand, which would indicate that the grade might be slightly higher than estimated in the BSB report of November 16, 1953. The value of the prospect depends almost entirely on extensions which may or may not be proven by development.

(c) Geologic Features

The two claims are located along a north trending, probably faulted, vertical (?) contact between granitic rocks of two ages. A limestone rafts about 45 feet thick is exposed discontinuously near the center of the claims. Hornblende, garnet, epidote, and scheelite have been introduced along this zone. The limestone is locally metamorphosed and contains some chert. The age is unknown. The granitic rocks, presumably Cretaceous, are of several types and are irregular bodies. Contact dikes also occur, as do basic dikes.

The limestone occurs in two areas separated by granitic rocks. Both show epidote, garnet and scheelite. The southerly, not differentiated, has been prospected by a bulldozer. No ore is shown, although a small patch of tactite and scheelite has been exposed. The east northerly area appears to be stronger and has been developed by two vertical prospect shafts, a stope, and an open cut along the tactite zone.

In this area there are two roughly parallel epidote-scheelite lenses with widths from 0 to 4 feet. The southerly lense (1) has been open cut for about 35 feet along the strike and mined in part as an underhand stope for a depth of 25 feet below the trench level. A shaft has been put in and a short drift run about 16 feet to the north at -25 feet.

Good schedule is exposed in the drift. Pretty values are shown in Prospect Chart C2, and northerly for about 100 feet. The other zone, Zone C3, about 20 feet east, is separated by a limestone parent horse with coarse mineralization, and has been exposed in the end of the open cut. Some good tungsten is shown. It appears to be dipping steeply toward the main zone and the junction (unexplored) may be the cause of the better values at -25 feet. The ore shoot appears to be developing at this elevation and is quite good in the end of the drift.

The general relationships are illustrated on the attached isometric drawing and sketch.

Obviously, determining the value of the mine, depends on further work and geological opinion as to the chances for additional ore. The ore is surrounded by granitic rocks which will pinch out the veins at an undetermined depth, possibly within 50 feet or less. Veins will probably not extend into the granite. Assuming that the ore contact is the junction of the limestone with granite, as one body might develope at this horizon and might extend 100 feet by 50 feet. The width could increase to 5 feet or decrease to zero. Thus there is room for one body which might contain as much as 2500 tons at 1% or a gross value of $150,000.00. With twice the tonnage or 5% ore, this figure would naturally be doubled.

It would thus appear, that while chances of an ore body are in the order of 40-60, that a possible production might be attained after development.

(d) Location

The property is situated 20 miles northeast of Berkeley where the Jewelight Center Hill is located. It is approximately 5 miles southerly from the Clearlight Mine. The roads are good, graded, and all weather. The last 10.6 miles from the graded highway at the summit above Millican's Mill, is a typical desert road. It has been improved and grading can be done.

(e) Supplies and Labor

Supplies and labor are available in Berkeley or Redwood. Water will have to be hauled the 6 miles from Millican's Mill. Equipment can be rented or bought at Redwood. A compressor will supply the power needed.

5 The Exploration Project

Placer drilling or deep hole drilling will probably be the solution. A new study or rehabilitation of the present shaft will cost nearly as much as a crosscut adit driven with a slanting adit obvious advantages to the latter, as the subsequent drifts and raises which will be necessary can be run vertically and the property pumped or dispersed. The proposed adit is indicated on the attached sketch and topographic drawing. The adit is proposed at approximately -40 feet below the track level and thus 15 feet below the bottom of the present workings. This places the adit near the elevation of the top of the present ore bin (-30 feet). The portal will be 100 feet from the entrance and portrayed altered

Insurance, note estimate and profile (f). Only show dates should be necessary.

The proposed work is as follows:

			Depth estimate
Ground water	200 feet	@ 20.00	= 4000.00
Relief	100 feet	@ 20.00	= 2000.00
2 or 4 acres	250 feet	@ 10.00	= 2500.00
Total work	550 feet		= 8500.00

(d) It is proposed to have Mr. Glen L. Gardner supervise the project. A copy of his experience record is attached.

6 Estimate of Costs

(a) Independent contract (excel)

It would be advisable to contract, if a suitable contractor can be located. By to the present time no one is available.

(b) Labor

	Cost	Month	6 Mo	6 Mo
2 men @ 2/hr	@ 160.00	@ 640.00	@ 1560.00	@ 3240.00
(2 hrs week)				
Supervision, Inc.	100.00	400.00	1000.00	2200.00
Labor (2) 30/hr				
2 days week:				
Sub total		1040.00	2560.00	5440.00

(c) Operating Equipment & Supplies

Miscellaneous			
Hand tools (hammer/hr @ 10)	20.00	100.00	200.00
Helper or Crew @	20.00	100.00	200.00
D.O @	20.00	100.00	200.00
Rental (2) compr/hr @ 22.50	135.00	400.00	800.00
Pump 3000 gal/hr	40.00	120.00	240.00
Pipe 2.75/100 2 hours	5.00	20.00	20.00
Steel	100.00	400.00	800.00
Lube oil	10.00	40.00	80.00
Bits	50.00	200.00	300.00
Repairs for Compressor	90.00	200.00	540.00

	[illegible]	[illegible]	[illegible]
Bolts, bolts, etc	25.00	150.00	150.00
Small tools	50.00	50.00	50.00
300 feet 1½ inch pipe	150.00	150.00	150.00
300 feet 2 inch pipe	150.00	150.00	150.00
Valves, couplings, fittings	100.00	100.00	100.00
Two tool, transfer, [illegible]	300.00	300.00	300.00
Total Supplies	1125.00	2700.00	3300.00
Sales tax (included in [illegible])	50.00	75.00	100.00
Sub total	$ 1075.00	$ 2775.00	$ 4025.00

(d) Operating Equipment

	Rental or Use Rates			
	Purchase Price	1 Mo.	4 Mo. (Minimum)	6 Mo. (Minimum)
Compressor (Air) @	$ 500.00	$ 140.00	$ 560.00	$ 840.00
Water Cooler	300.00	25.00	100.00	150.00
Two Trucks @	600.00	25.00	240.00	240.00
Jack [illegible]	300.00	20.00	60.00	60.00
Two [illegible] @	100.00	5.00	20.00	30.00
Air cylinder & [illegible] @	600.00	40.00	160.00	240.00
Wire rope	50.00	20.00	50.00	50.00
Two [illegible]	50.00	5.00	20.00	30.00
[illegible]	2000.00	100.00	400.00	600.00
Miscellaneous [illegible]	[illegible]	[illegible]	[illegible]	50.00
Sub total	[illegible]	[illegible]	[illegible]	[illegible]

Note: [illegible] [illegible] [illegible].

(e) Sub Contractor [illegible] - None

(f) Non Salaried [illegible]

1 [illegible] [illegible] Rate for [illegible]	250.00	250.00	250.00	250.00
1 [illegible] [illegible] [illegible] [illegible]	300.00	50.00	200.00	300.00
Rubber [illegible]	50.00	50.00	50.00	50.00
Pay [illegible] [illegible]	50.00	50.00	50.00	50.00
Sub Total	$ 650.00	$ 400.00	$ 550.00	$ 650.00

(g)

[illegible]	150.00	150.00	150.00
[illegible]	75.00	75.00	[illegible]
[illegible]	300.00	400.00	600.00
[illegible]			
[illegible]	20.00	25.00	20.00
[illegible]	150.00	600.00	900.00
[illegible]	50.00	100.00	300.00
Sub Total	$ 745.00	$ 1350.00	$ [illegible]

Depreciation and Canopy

	2 months	4 months	6 months
(b) [illegible]	$ 1240.00	$ 620.00	$ 620.00
(c) Operating costs, oil [illegible]	[illegible]	[illegible]	[illegible]
(d) Operating costs, [illegible]	625.00	1250.00	2500.00
(e) Lease			
(f) Dry Hole	400.00	800.00	650.00
(g) Exp. Items	[illegible]	[illegible]	[illegible]
Sub Total	[illegible]	[illegible]	[illegible]
Contingencies 5 10%	[illegible]	[illegible]	[illegible]
Grand Total	$ [illegible]	$ [illegible]	$ [illegible]

Statement of the Training,Experience, and Publications
of
Dion L. Gardner

College Universtiy of California,Berkeley,Department of Geological Science

Degrees A. B.,1929. Master's, M. A. in Geological Science 1932

Honorary Societies Theta Tau

Scientific Societies

Member - American Institute of Mining Engineers
Member - Society of Economic Geologists
Member - American Geophysical Union
Member - American Association of Petroleum Geologists
Member - American Water Works Association

Experience

1945 to date - Geologist,Independent Consulting specializing in the metals of gold,silver,and tungsten.I have recently done consulting work in oil and water geology.

1942 - 1945 - Prisoner of War at Santo Tomas Internment Camp Manila,Phillipines.I am now completely recovered and my health is unimpaired.

1936 - 1942 - Geologist,later chief geologist,Southern Division Marsman and Co.,Inc.,Paracale District,Philippines.In charge of geological work and diamond drilling for three operating mines, and examination work on the outside properties,both in the Paracale District and elsewhere. In addition,supervised engineering department at San Mauricio Mining Co.,as well as the Geological Department. Total daily tonnage of all properties was about 900; about 2000 feet of operating development and 2000 feet of capital development per month mapped by combined geological staffs under my supervision. Prepared development recommendations and ore reserve estimates twice yearly.Licensed Mining Engineer # 196,Philippine Islands, as of December 27.1939

1932-1936 - Various minor jobs.

1929 - 1932 Studying for a Master's degree at the University of California Berkeley,and part time geologist for the California State Division of Mines,working in the Newberry and Ord Mountains San Bernardino County,California

David B. Hempstead
Box 631
Beverly Hills, California

5. (d) Background of the Applicant with Relation to the Ability to Carry Out Such Exploration Project

David B. Hempstead - Capital Investor, Executive, Writer

STOCKHOLDER - Current and/or sometime minority stockholder in the following mining and related enterprises:

Aluminum Ltd. (Canada)
Bannor Copper Mining Co.
Consolidated Eureka Mining Co.
Croff Mining Co.
Kennecott Copper Corp.
Natomas Company
Rico Argentine Mining Co.
Smelters Development Corp.
Southern Production Co.
Texas Illinois Natural Gas Pipeline Co.
Tintic Standard Mining Co.
United Electric Coal Co's.
United Park City Mines
Westates Petroleum Co.
West Kentucky Coal Co.
West Virginia Pulp and Paper Co.

DEGREES A. B. University of Michigan 1931
Honors in English, secondary subject, Geology

EXPERIENCE

1931 - to date: Author of various stories and articles for magazines and motion pictures.

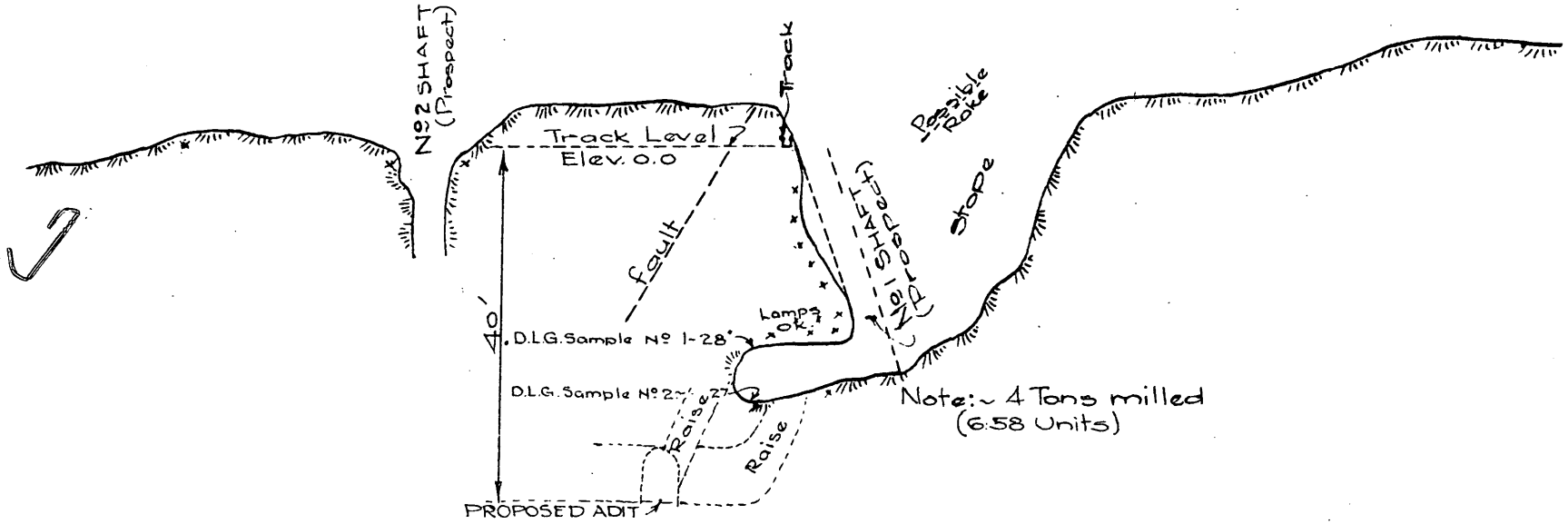
1935 - 1939: Producer of motion pictures for Twentieth Century Fox Film Co. Supervised expenditures in such production aggregating approximately $4,000,000

1939 - 1945: Producer of motion pictures for R.K.O. RADIO STUDIOS INC. Supervised expenditures in such production aggregating approximately $7,000,000

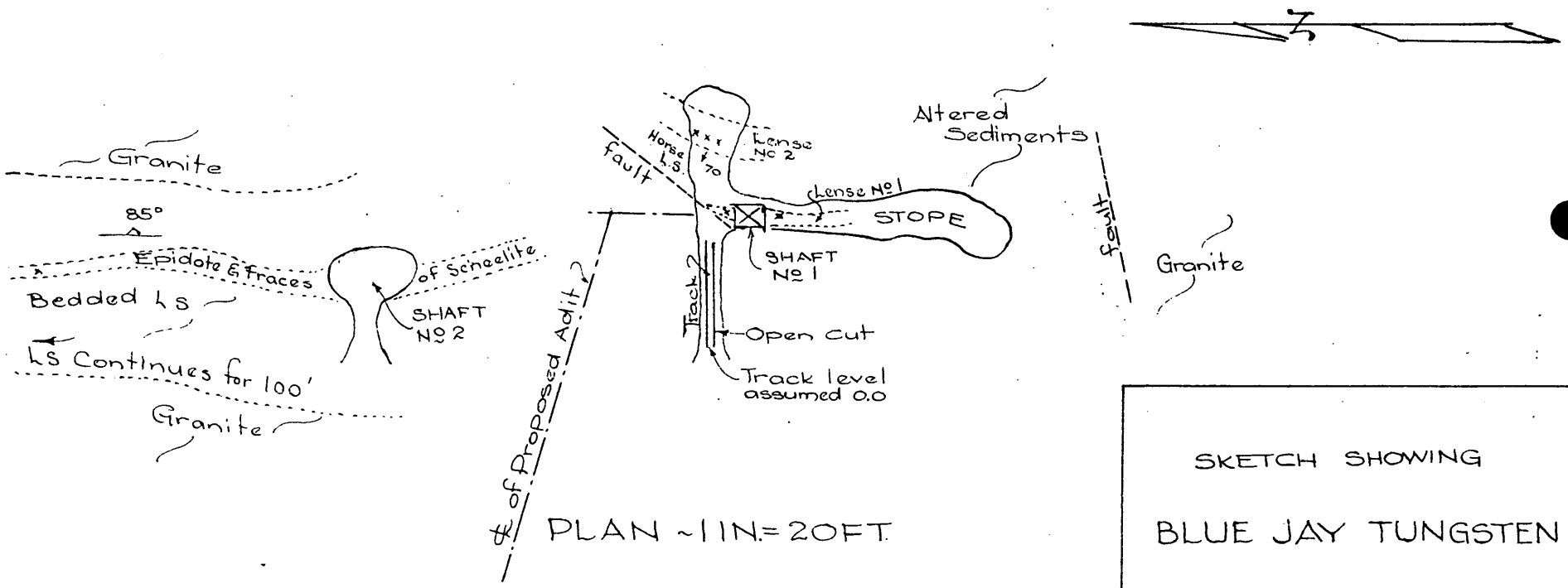
1946 - 1948: Producer of motion pictures in association with David O. Selznick

1951 - 1953: Writer and producer of motion pictures for Twentieth Century Fox Film Co.

N.B. : Recovered from illness suffered 1948 - 1951



SECTION ~ 1 IN = 20 FT.



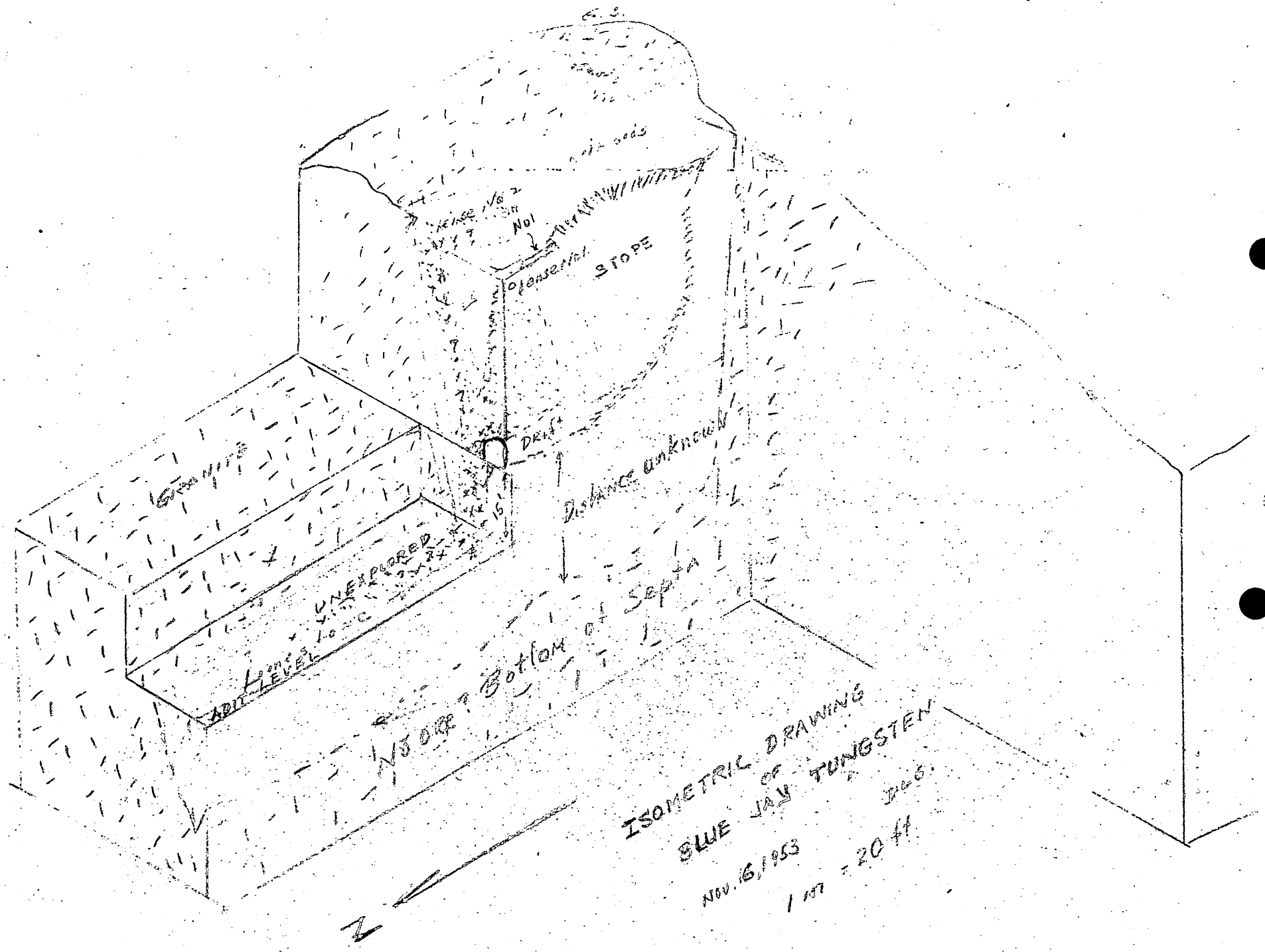
PLAN ~ 1 IN. = 20 FT.

SKETCH SHOWING

BLUE JAY TUNGSTEN

Nov. 15, 1953. D.L. GARDNER

David B. Hempstead
Box 631
Beverly Hills, California



Hopkins
Martin
Gehan
Hedges
Selfridge
F. Johnson

MAR 2 6 1954

Mr. David B. Hempstead
Box 631
Beverly Hills, California

Re: Docket No. DMEA 3228 - Tungsten
Blue Jay & Blue Jay No. 2 claims
San Bernardino County, Calif.

Dear Mr. Hempstead:

Your application for aid for an exploration project and other data available to us in Washington concerning the above-named 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 small amounts of tungsten mineralization on your property, 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, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf
Administrator

cc: DOCKET
FT, REG. III
CODE 400
OPER. COMM
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

JHopkins/ls
3/24/54

R.C.B. 3-26-54

Hopkins
Martin
Gerhon

March 24, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $12,233.77 to $17,483.77
Docket No. DMEA 3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

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

(1) The applicant requested exploration assistance in the amount of $12,233.77 (4-months' program) to $17,483.77 (6-months' program) to explore for tungsten on the Blue Jay and Blue Jay No. 2 claims, San Bernardino County, California.

(2) The Blue Jay claims contain scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, which dip steeply within a 25- to 40-foot thick wedge-like screen of calcareous rock included in granitic rocks.

(3) The lenses extend discontinuously for a length of 130 feet and become smaller with depth, and may pinch out entirely a few feet below the workings.

(4) The tungsten mineral scheelite is most concentrated in a lens in the face of a 4-foot high drift that extends 12 feet north from the 25-foot shaft. The lens is 3 feet long by 2 feet wide in the back and narrows to 6 inches at the floor. Two samples from this pocket assayed 2.34% WO_3 and 0.62% WO_3 respectively.

(5) This pocket is only a remnant of the larger lens worked out by the 25-foot deep open pit around the shaft.

R.C.B.
3-26-54

(6) Using a tonnage factor of 10 cubic feet, and allowing a depth of 50 feet, a width of 3 feet, and a length of 100 feet, an inferred block of scheelite-bearing rock amounting to 1500 tons is calculated. Using a dilution factor of 0.5 to allow for the spotty distribution of scheelite replaces the estimated contained value of 1% WO_3 by 0.5% WO_3 and makes the estimated inferred ore 750 tons selectively mined and sorted to grade 1% WO_3.

(7) The relatively small size of the calcareous-silicate and marble body precludes the existence of other deposits of equal or greater size and grade.

(8) The examiners conclude that the meager returns to be expected from the applicant's proposal do not warrant DMEA participation in an exploration project at the Blue Jay claims.

(9) The Field Team recommends that no consideration be given to DMEA participation in an exploration project at the Blue Jay claims.

(10) The Commodity Divisions of the U. S. Geological Survey and Bureau of Mines concur with the recommendation of the Field Team.

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

cc: DOCKET
CODE 400
ADM. READ. FILE
OPER. COMM.

JHopkins/ls
3/24/54

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

March 24, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of application for exploration assistance in the amount of $12,233.77 to $17,483.77
Docket No. DMEA 3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

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(2) The Blue Jay claims contain scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, which dip steeply within a 25- to 40-foot thick wedge-like screen of calcareous rock included in granitic rocks.

(3) The lenses extend discontinuously for a length of 130 feet and become smaller with depth, and may pinch out entirely a few feet below the workings.

(4) The tungsten mineral scheelite is most concentrated in a lens in the face of a 4-foot high drift that extends 12 feet north from the 25-foot shaft. The lens is 3 feet long by 2 feet wide in the back and narrows to 6 inches at the floor. Two samples from this pocket assayed 2.34% WO_3 and 0.62% WO_3 respectively.

(5) This pocket is only a remnant of the larger lens worked out by the 25-foot deep open pit around the shaft.

(6) Using a tonnage factor of 10 cubic feet, and allowing a depth of 50 feet, a width of 3 feet, and a length of 100 feet, an inferred block of scheelite-bearing rock amounting to 1500 tons is calculated. Using a dilution factor of 0.5 to allow for the spotty distribution of scheelite replaces the estimated contained value of 1% WO_3 by 0.5% WO_3 and makes the estimated inferred ore 750 tons selectively mined and sorted to grade 1% WO_3.

(7) The relatively small size of the calcareous-silicate and marble body precludes the existence of other deposits of equal or greater size and grade.

(8) The examiners conclude that the meager returns to be expected from the applicant's proposal do not warrant DMEA participation in an exploration project at the Blue Jay claims.

(9) The Field Team recommends that no consideration be given to DMEA participation in an exploration project at the Blue Jay claims.

(10) The Commodity Divisions of the U. S. Geological Survey and Bureau of Mines concur with the recommendation of the Field Team.

W S Martin

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

IN REPLY REFER TO:

Defense Minerals Administration
RECEIVED
MAR 19 1954

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

March 18, 1954

Memorandum

WSM

To: W. S. Martin, DMEA

From: P. W. Guild, U.S. Geological Survey

Subject: Docket No. DMEA-3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 Claims
San Bernardino County, California

The Field Team recommends denial. I concur.

P W Guild

Money refunded 4/21

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

Defense Minerals
APR 19 1954

March 18, 1954

Memorandum

To: W. S. Martin, BLM

From: P. W. Guild, U.S. Geological Survey

Subject: Docket No. [illegible]-3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 Claims
San Bernardino County, California

The Field Team recommends denial. I concur.

cc: WSMartin (3)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 19 1954

March 18, 1954

Memorandum

To: W. S. Martin, DMA

From: P. W. Guild, U.S. Geological Survey

Subject: Docket No. DMA-3228 - Tungsten
David C. Hempstead
Blue Jay and Blue Jay No. 2 Claims
San Bernardino County, California

The Field Team recommends denial. I concur.

cc: WSMartin (3)

Docket

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

Bureau of Mines Mineral Resources
Received
1 3 1954

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

March 12, 1954

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 No. DMEA-3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 Claims
San Bernardino County, California

Reference is made to your letter dated January 14, 1954, requesting a review and field examination of the subject property.

Attached are four copies of an examination report entitled "DMEA-3228, Blue Jay and Blue Jay No. 2 Claims, San Bernardino County, California, (Tungsten)," by J. F. Robertson and H. R. Stager, Geologists, U. S. Geological Survey, and F. J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, dated March 5, 1954.

According to the examining engineer and geologists, the Blue Jay claims contain scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, which dip steeply within a 25 to 40 foot thick wedge-like screen of calcareous rocks included in granitic rocks. The lenses extend discontinuously for a length of 130 feet and become smaller with depth, and may pinch out entirely a few feet below the workings.

The proposed work is not justified as the meager returns expected from such exploration do not warrant the expense. It is recommended that no consideration be given to DMEA participation in an exploration project at the Blue Jay claim.

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

Attachment

Copy to: Roscoe Smith, USGS

Reviewed by
DMEA OPERATING COMMITTEE
3-19-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3228, Blue Jay and Blue Jay No. 2 Claims

San Bernardino County, Calif.

(Tungsten)

J. F. Robertson, Geologist
H. R. Stager, Geologist
U. S. Geological Survey

F. J. Wiebelt, Mining Engineer
U. S. Bureau of Mines

March 5, 1954

Reviewed by
DMEA OPERATING COMMITTEE
3-19-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3228 (Tungsten)

Name and address of applicant: David B. Hempstead
Box 631
Beverly Hills, Calif.

Name and location of property: Blue Jay and Blue Jay No. 2 Claims
San Bernardino County, Calif.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The Blue Jay claim contains scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, which dip steeply within a 25 to 40-foot thick wedge-like screen of calcareous rocks included in granitic rocks. The lenses extend discontinuously for a length of 130 feet and become smaller with depth, and may pinch out entirely a few feet below the workings.

The applicant has proposed an exploration project consisting of 100 feet of crosscut, 150 feet of drifting, and 150 feet of raising at an estimated cost of from $12,233 to $17,483.

It is estimated that the proposed work will probably not develop more than 1,500 tons of ore of 0.5% WO_3 content or 750 tons of rock selectively mined and sorted to 1.0% WO_3 content.

If the applicant could receive $38.00 per short unit for this sorted ore at the mill, the Government's return (5% of the mill returns) would amount to $1.90 per ton, or about $1,425 total. On that basis the Government could not possibly be reimbursed for the amount of its

participation for practically any program of exploration that might be considered.

It is recommended that no consideration be given to DMEA participation in an exploration project at the Blue Jay claim.

The examiners, consisting of Jacques F. Robertson and Harold Stager of the U. S. Geological Survey and Frank J. Wiebelt of the Bureau of Mines spent the evening of January 27, 1954 on the property. No other person accompanied the examiners.

NAME AND LOCATION OF PROPERTY

The Blue Jay and Blue Jay No. 2 claims are situated 25 miles by road northeasterly of Barstow, California in San Bernardino County, California.

The property is accessible by automobile from Barstow, California by following U. S. Highway 91 northerly one mile from its intersection with U. S. Highway 66 and then turn left and go 0.6 mile to the Camp Erwin road. Follow the latter road 6.5 miles and turn left on the Goldstone road and continue on this road (through Dodsons and past Williams well) 16.5 miles at which point turn right and proceed 0.4 mile to the Blue Jay mine campsite. The mine ore bin and mine workings are 0.1 mile by road from the campsite.

ACCESSIBILITY

The first 8.1 miles of road to the property are paved roads; the remainder consists of 6.3 miles of good graded dirt road and 10.6

miles of typical desert improved dirt road. The property is accessible throughout the year.

COMPETENCY OF APPLICANT

Nothing is known concerning the competency of the applicant. Mr. Dion L. Gardner, who was to supervise the project for the applicant is known by the examiners to be a very competent geologist and has had considerable experience with tungsten properties, especially at the Atolia Tungsten mines. He is competent to carry out an exploration project.

APPLICANT'S PROPERTY RIGHTS

The applicant is purchasing the property under contract.

DESCRIPTION OF PROPERTY

Surface facilities consist of an ore bin. The only mine equipment on the property is one ore car.

The mine workings consist of a 25-foot deep open pit from which a lens of scheelite-bearing tactite has been mined out, a 12-foot drift from the north end of the bottom of the above pit, a 9-foot deep prospect pit and some bulldozer stripping.

No samples were taken during the examination because lamping operations failed to disclose sufficient scheelite mineralization in the scheelite-bearing tactite lenses.

GEOLOGY

The Blue Jay mine is in a 25- to 40-foot thick wedge-like screen

of calcareous rocks included in granitic rocks. At least two scheelite-bearing epidote-tactite lenses, ranging in width from 1 to 4 feet, dip steeply within the calcareous body, and extend discontinuously for a length of about 130 feet in a northerly direction. As indicated in the 25-foot deep pit, the lenses become smaller with depth, and may pinch out entirely a few feet below the workings. The deposit is limited by a fault on the south end and by wedging-out of the scheelite-bearing tactite northward from the 9-foot deep prospect pit number 2.

The tungsten mineral scheelite is most concentrated in a lens in the face of the 4-foot high drift that extends 12 feet north from the shaft. The lens is 3 feet long by 2 feet wide in the back and narrows to 6 inches at the floor. Sample No. 1, taken by D. L. Gardner from this pocket near the back, assayed 2.34% WO_3 over a width of 28 inches. Gardner's sample No. 2, near the floor, assayed 0.62% WO_3 over a 27-inch width. Although these assays are encouraging, they are not representative but merely the best available. Scheelite crystals left in the open stope are thinly disseminated with a few spectacular ones approaching 2 cm. in diameter, but no concentrations above a few tenths of one percent were lamped. At the surface, a few spots of scheelite were noted that lamped a trace, and one spot in the 9-foot deep pit lamped an estimated 0.5% WO_3. In the garnetiferous marble and calc-silicate rock scheelite crystals occur sparingly.

The richest lens of scheelite-bearing tactite on the property appears to have been mined out already from the 25-foot deep open pit. The pocket of scheelite ore in the drift is only a remnant of the larger lens, but not other showings contain minable grades of scheelite. The relatively small size of the calc-silicate and marble body precludes the existence of other deposits of equal or greater size and grade. Considering that the calc-silicate and marble are included in granitic rocks, the tactite lenses probably do not continue downward far. Extensions of more than 50 feet below the surface or 25 feet below the open pit are speculative.

ORE RESERVES

In the consultant's report accompanying the application, Mr. Gardner states that an ore body might be developed 100 feet long by 50 feet deep and as much as 5 feet thick, and further observed, "There is room" for "as much as 2,500 tons at 1% or a gross value of $150,000.00". These figures are extravagant. Erratic distribution of scheelite and variable thickness of the scheelite-bearing tactite do not permit calculation of a solid blanket or layer of inferred ore. No pocket observed on the property exceeds 2.5 feet in thickness; combining the two lenses must take into account that the second one is poorer, thinner, and apparently does not extend as far as the number one lens along strike. At the most, only 3 feet total thickness can be accounted for. Allowing a depth of 50 feet and length of 100 feet, an

inferred block of scheelite-bearing rock amounting to 1500 tons is calculated. Using a factor of 0.5 to allow for the spotty distribution of scheelite gives an estimated contained value of 0.5% WO_3 or lower, depending on dilution, or 750 tons of rock selectively mined and sorted to 1% WO_3.

PAST OPERATIONS

The Jay property was located on Feb. 21, 1951 by Mr. Vernon Jay of Barstow, Calif. It is reported to have been leased two or three times with one early lessee reporting 11 tons was mined and milled with other ore. The last lessees, Mr. Red Baird and Mr. J. Martin, are reported to have milled about 4 tons of ore from the property at the Jaylight mill in Barstow. This ore probably contained 1.5% WO_3 according to Mr. Gardner.

MANPOWER AND SUPPLIES

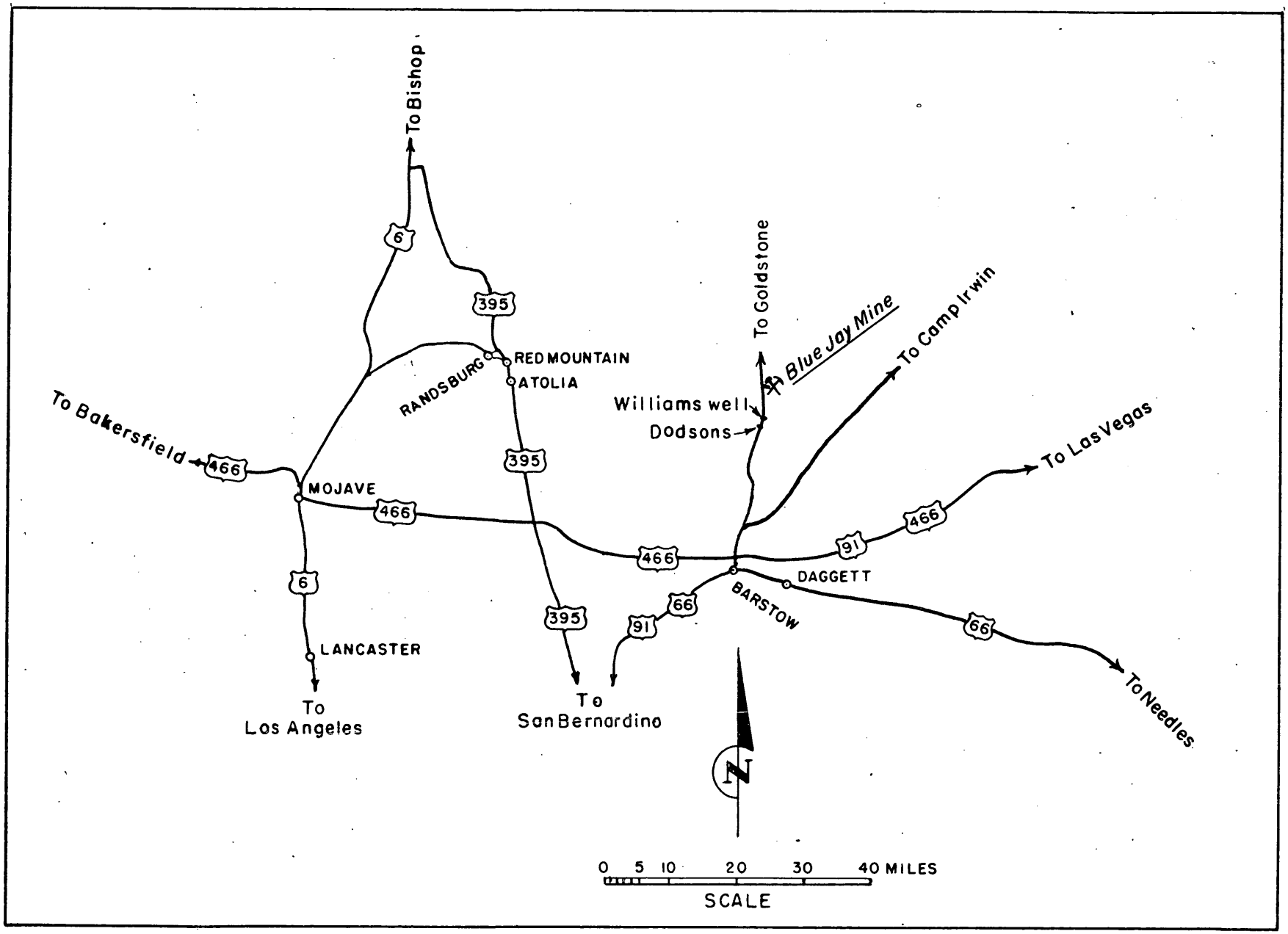
Manpower, materials, supplies and equipment are available from Barstow, Calif. Electric power is not available. Water may be obtained from nearby wells.

APPLICANT'S PROPOSAL

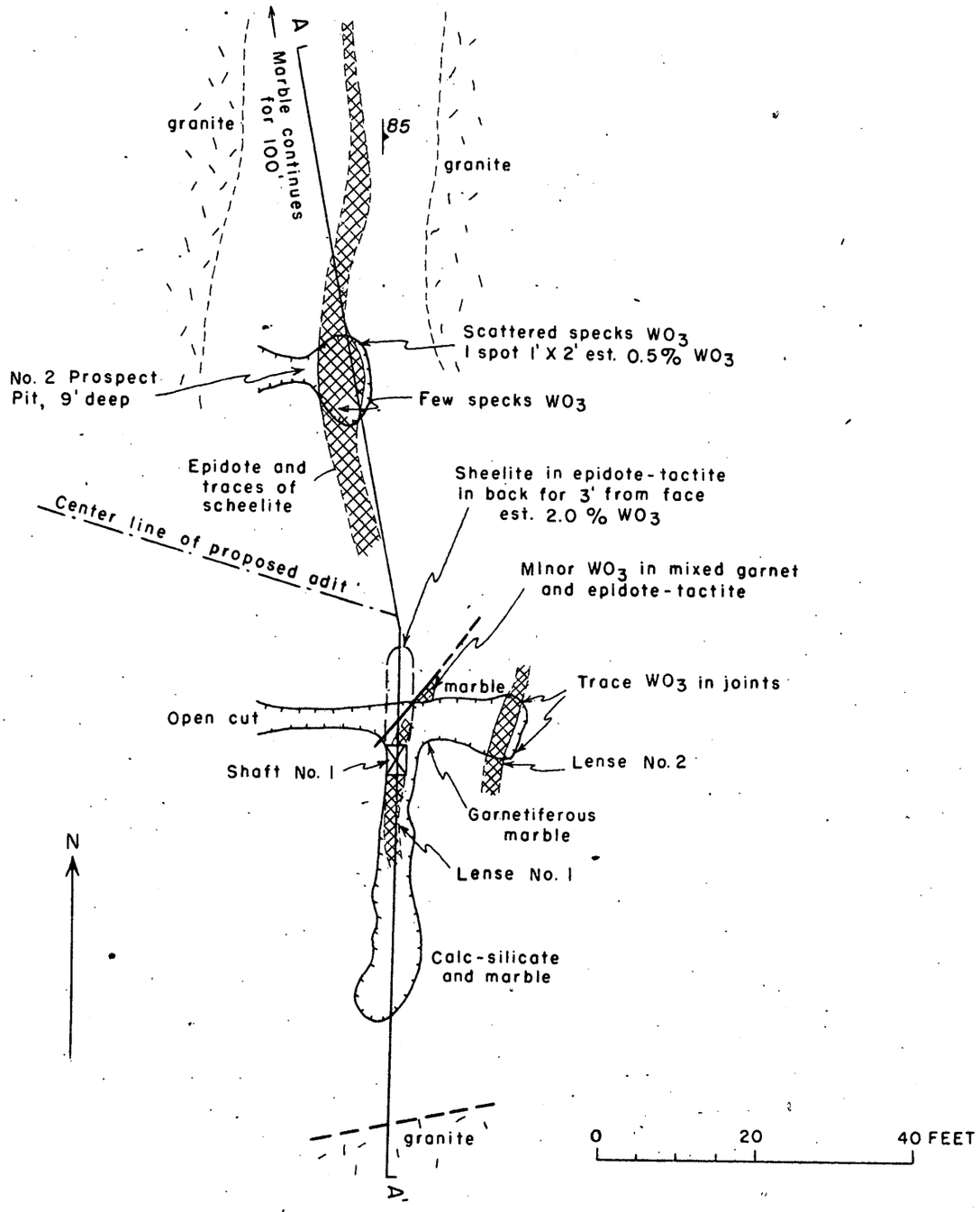
The applicant proposes a 100-foot adit (crosscut) at an elevation of 15 feet below present workings, 100 feet of drifts from the face of this adit and 3 or 4 raises totaling 150 feet.

The above proposed work is not justified. Although deepening

of the present shaft, then drifting, or diamond drilling from the surface would accomplish the same purpose at less cost, the meager returns to be expected from such exploration on the deposit does not warrant the expense.

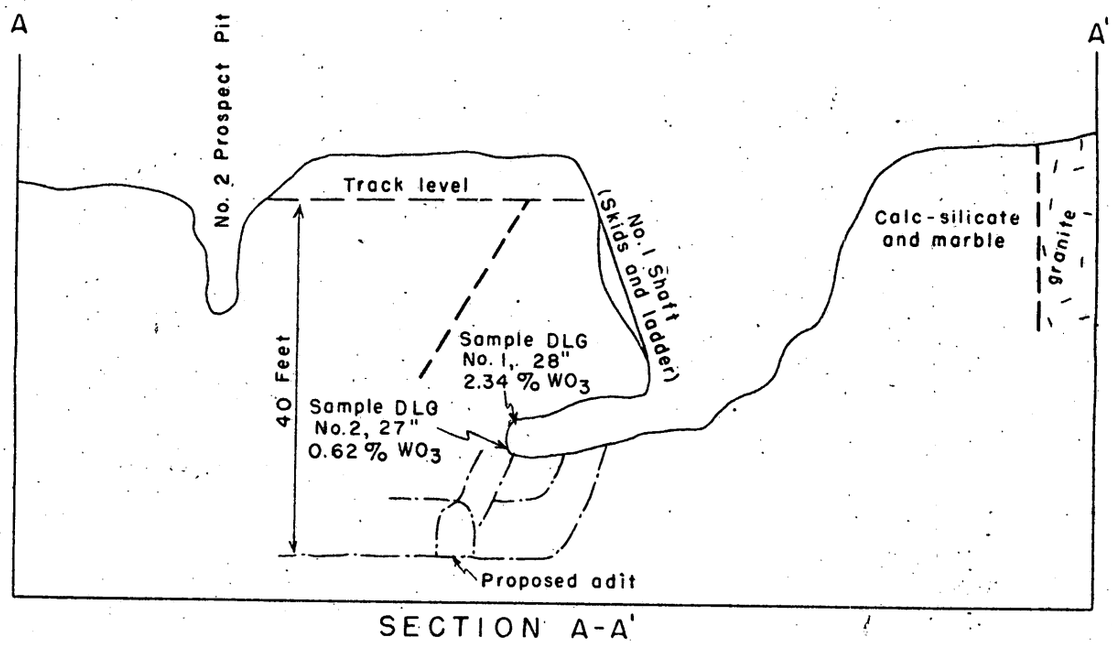


Location map, Blue Jay tungsten mine, San Bernardino County, California.



Copied from map by D. L. Gardner

PLAN



SECTION A-A'

BLUE JAY TUNGSTEN CLAIMS, SAN BERNARDINO COUNTY
CALIFORNIA

Docket

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

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

WSOY

January 26, 1954

Memorandum

To: C. O. Mittendorf, Administrator, DMEA, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3228 - Tungsten
David B. Hempstead
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

We are enclosing photo copy of letter dated January 21, 1954, received from Mr. David B. Hempstead regarding subject docket. We are pleased to note that some people appreciate the attention that they receive from the Defense Minerals Exploration Administration, and thought that you might also be interested.

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

Attachment

RECEIVED
FEB 1 1954

No reply necessary

DAVID BILL HEMPSTEAD

BOX SIX HUNDRED THIRTY-ONE BEVERLY HILLS, CALIFORNIA

Answered

January 21, 1954

Mr. H.C. Miller
Executive Officer
DMEA Region 111
1012 Flood Building
870 Market Street
San Francisco, California

Re: Docket No. 3228 - Tungsten
Blue Jay and Blue Jay No. 2
Claims, San Bernardino County
California

Dear Mr. Miller:

First may I thank you for your prompt and informative letter of last November sixteenth. It is due to your generous assistance, and to the pertinent directions for following it that I again address myself to you regarding what has now become Docket No. 3228 - Tungsten. It is truly a refreshing experience to find such a minimum of red tape and such a maximum of efficiency and dispatch in a matter calling for the attention of the Federal Government. Of course, I hope that my debt to you assumes more tangible proportions than now exist. But, be that as it may, I do want to express my gratitude to you for the knowledge and the guidance you have thus far extended to me.

Earlier this week I received a letter from C.O. Mittendorf advising me that the application I had made following your instructions, had been reviewed by the Iron and Ferro-Alloys Division and referred to you for further consideration and a field examination of the property. Mr. Mittendorf closed his communication by saying, "At the time an examination is made any assistance that you can render the examining engineers will be appreciated."

Accordingly, this is to advise you that if you will let me know the date you have set for the field examination, and just what assistance I can render you in that connection, you may be sure of whatever co-operation you desire. I should imagine that you would want my engineer, Mr. Dion L. Gardner, to be available to you, and he will be if you so desire. However, since I am not a skilled hand in DMEA operations, I would appreciate as clear a picture of what is expected of me in this regard as you gave me in the earlier stages. Again my thanks.

Sincerely,

David B. Hempstead

DBH:z

Martin
Geehan
Thayer
Hodges
Selfridge
H. Johnson

JAN 14 1954

Mr. David B. Hempstead
Box 631
Beverly Hills, California

Re: Docket No. DMEA 3228 - Tungsten
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

Dear Mr. Hempstead:

Your application for assistance in exploring a tungsten occurrence on your Blue Jay and Blue Jay No. 2 lode mining claims in San Bernardino County, California, has been reviewed by the Iron and Ferro-Alloys Division, Defense Minerals Exploration Administration, and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco, California, for further consideration and a field examination of the property.

At the time an examination is made any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

CC: DOCKET
FT, REG. III
CODE 400
ADM. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS

JHopkins/ls
1/12/54

R.C.G.
1-14-54

400

Martin
Hopkins
Hakon
Selfridge
Johnson

JAN 14 1954

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 3228 - Tungsten
David B. Morpstead
Blue Jay and Blue Jay No. 2 claims
San Bernardino County, California

Dear Mr. Miller:

The subject application for exploration assistance is being referred to your office for review and a field examination.

Two copies of a memorandum, dated January 11, 1953, by Mr. T. P. Thayer of the Geological Survey, are enclosed for your information.

The applicant has proposed a 100-foot tunnel to intersect a lens of scheelite-bearing tactite 15 feet below the old workings. During your field examination we suggest that you ascertain whether the same objective could be reached at a lower cost by extending the No. 1 shaft a distance of 15 feet.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

J. H. Hedges
Member, Bureau of Mines (JHB)

T. P. Thayer
Member, Geological Survey (JHB)

Copy to: DOCKET
ADM. READ. FILE
CODE 400
FT, Reg. 3
R. W. GEEHAN, USBM
T. P. THAYER, USGS
OPER. COMMITTEE

JHopkins/ls
1/12/54

R.C.G.
1-14-54

IN REPLY REFER TO:

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

January 11, 1954

To: W.S. Martin, DMEA

From: T.P. Thayer

Subject : DMEA - 3228 Tungsten
David B. Hempstead
Box 631
B everly Hills, California

Blue Jay No. 2
San Bernardino County
California

The applicant proposes to spend $12,233 to $17,483 on 350 feet or more of drifts and raises on a tactite zone in granitic rocks. The deposit appears to have yielded less than 20 tons of ore of uncertain grade.

The applicant's hopes are based on finding ore along the strike of a limestone lens in granitic rocks, in which exploration to date has not been very productive. Reserves are estimated at 150 tons, projected 10 feet along the "vein" around the present stope. Surface work appears to have shown only spotty mineralization.

I am not impressed by the apparent potentialities of the prospect. Before undertaking the proposed underground work, I would recommend much more surface work to determine continuity along strike and mineralization along the granite contracts. The applicant suggests 50 foot depth to the septum, a depth readily reached by diamond drills.

I recommend that the application be referred to the field for examination and evaluation of merit of the proposed work.

T.P. Thayer

T.P. Thayer

David B. Hempstead
Box 631
Beverly Hills, California

December 29, 1953
Subject: DMEA-3228
Re: Exploration Assistance

Dear Mr. Hempstead:

The receipt of your application dated December 22, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3228 and referred to the Iron & Ferro-Alloys Division.

Kindly refer to DMEA-3228 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 29 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-3228
Metal or Mineral
Date Received 12-29-53
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: David B. Hempstead
Box 631
Beverly Hills, 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 Those certain unpatented mining claims located in the County of San Bernardino, State of California, described as follows: the Blue Jay No. 2 lode mining claim as recorded in book 317 at page 560, official mining records of San Bernardino County; and the Blue Jay lode mining claim similarly recorded in book 317 at page 294

(*b*) State any mine name by which the property is known.

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See attached schedule

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Blue Jay No. 2 lode mining claim as recorded in book 317 at page 560; and Blue Jay lode mining claim as recorded in book 317, page 294 official mining records of San Bernardino Cty.

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. See attached schedule

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

(*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. See attached schedule by Dion L. Gardner, A.I.M.E., A.A.P.G., A.W.W.A

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. 26 miles NE of Barstow, California, 5 miles NE of Starbright Tungsten Mine

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

See attached schedule.

16—66551-1

5. *The exploration project.*—(*a*) [illegible]e the mineral or minerals for which you w[illegible] explore Tungsten

(*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. See attached isometric drawing and sketch

(*c*) The work will start within 10 days and be completed within 4 to 6 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. See attached schedule

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. See attached schedule

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

(*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. See attached schedule

(*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. See attached schedule

(*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. See attached schedule

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated December 22, 1953

[signature]
(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

D. B. Hempstead
Box 631
Beverley Hills
California

4 Physical Description

(a) History

The Jay property was located on February 21, 1951 by Mr. Vernon Jay of Barstow. It has been leased 2 or 3 times with one early lessee reporting 11 tons of ore which was mixed in milling with other ore. No separate results are available. Some bulldozing and open cuts were made and at least two pits or prospect shafts sunk, plus an open cut or stope. An ore bin was built.

The last lessees, Mr. Red Baird and Mr. J. Martin, installed a headframe and guides to convert the north end of the stope into Shaft #1 and drifted 16 feet to the north from the bottom of this shaft at 25 feet below the track level. All workings are accessable at present. A sketch of the claim group is attached.

$\frac{5 \times 7 \times 16}{12} = 46$ Tons (?)

(b) Production

From this last work about 4 tons of ore were milled at the Jaylight Mill in Barstow. 247 pounds of tungsten concentrate were subsequently sold in Bishop. This assayed 53.28% tungsten with .05 phosphate, 0.09 lead and 0.17 zinc. It contained 6.58 units which would indicate that "sorted ore" would recover about 1.6 units or 1½%. This was of course the best available. The scheelite shown is of good grade and can possibly be cleaned to 60% obviating penalties.

6.55 × 63 = $412.65 ÷ 46 = $900/Ton.

Ore Reserves

By extending the showings for 10 feet around this drift, it is estimated that about 150 tons of ore with an average grade of 1% is in sight. Two assays, DLG 1 @ 2.34% and DLG 2 @ 0.62% from this block

are at hand, which would indicate that the grade might be slightly higher than estimated in the DLG report of November 16, 1953. The value of the prospect depends almost entirely on extensions which may or may not be proven by development.

(c) Geologic Features

The two claims are located along a north trending, probably faulted, vertical (?) contact between granitic rocks of two ages. A limestone septa about 45 feet thick is exposed discontinuously near the center of the claims. Hornblende, garnet, epidote, and scheelite have been introduced along this zone. The limestone is locally marbleized and contains some chert. The age is unknown. The granitic rocks, presumably Mesozoic, are of several types and are irregular bodies. Eastwest dikes also occur, as do basic dikes.

The limestone occurs in two areas separated by granitic rocks. Both show epidote, garnet and scheelite. The southerly, not illustrated, has been prospected by a bulldozer. No ore is shown, although a small patch of tactite and scheelite has been exposed. The most northerly area appears to be stronger and has been developed by two vertical prospect shafts, a stope, and an open cut along the tactite zone.

In this area there are two roughly parallel epidote-scheelite lenses with widths from 0 to 4 feet. The westerly lense #1 has been open cut for about 35 feet along the strike and mined in part as an underhand stope for a depth of 25 feet below the trench level. A shaft has been put in and a short drift run about 16 feet to the north at -25 feet.

Good scheelite is exposed in the drift. Spotty values are shown in Prospect Shaft #2, and northerly for about 100 feet. The other zone, lense #2, about 10 feet east, is separated by a limestone garnet horse with sparse mineralization, and has been exposed in the end of the open cut. Some good tungsten is shown. It appears to be dipping steeply toward the main zone and the junction (unexplored) may be the cause of the better values at -25 feet. The ore shoot appears to be developing at this elevation and is quite good in the end of the drift.

The general relationships are illustrated on the attached isometric drawing and sketch.

Obviously, determining the value of the mine, depends on further work and geological opinion as to the chances for additional ore. The area is surrounded by granitic rocks which will pinch out the septa at an undetermined depth, possibly within 50 feet or less. Values will probably not extend into the granite. Assuming that the ore control is the junction of the lenses with faulting, an ore body might develope at this horizon and might extend 100 feet by 50 feet. The width could increase to 5 feet or decrease to zero. Thus there is room for an ore body which might contain as much as 2500 tons at 1% or a gross value of $150,000.00. With twice the tonnage or 2% ore, this figure would naturaly be doubled.

It would thus appear, that while chances of an ore body are in the order of 40-60, that a possible production might be attained after development.

(d) Location

The prospect is situated 26 miles northeast of Barstow where the Jaylight Custom Mill is located. It is approximately 5 miles northerly from the Starbright Mine. The roads are good, graded, and all weather. The last 10.6 miles from the graded highway at the summit above William's Well, is a typical desert road. It has been improved and trucking can be done.

(e) Supplies and Labor

Supplies and labor are available in Barstow or Rosamond. Water will have to be hauled the 6 miles from William's Well. Equipment can be rented or bought at Rosamond. A compressor will supply the power needed.

5 The Exploration Project

Diamond drilling or long hole drilling will probably be inconclusive. A new shaft or rehabilitation of the present shaft will cost nearly as much as a crosscut adit driven with a slusher with obvious advantages to the latter, as the subsequent drifts and raises which will be necessary can be run easily and the property proven or disproven. The proposed adit is indicated on the attached sketch and isometric drawing. The adit is proposed at approximately -40feet below the track level and thus 15 feet below the bottom of the present workings. This places the adit near the elevation of the top of the present ore bin (-38 feet). The portal will be 100 feet from the outcrop and penetrate altered

limestones, meta sediments and granite (?). Only minor timber should be necessary.

The proposed work is as follows:

			Rough estimate
Crosscut adit	100 feet	@ $ 20.00	$ 2000.00
Drift	100 feet	@ 20.00	2000.00
3 or 4 raises	150 feet	@ 10.00	1500.00
Total work	350 feet		$ 5500.00

(d) It is proposed to have Mr. Dion L. Gardner supervise the project. A copy of his experience record is attached.

6 Estimate of Costs

(a) Independent contract (none?)

It would be advisable to contract, if a suitable contractor can be located. Up to the present time no one is available.

(b) Labor

	Week	Month	4 Mo	6 MO
2 miners @ 2/hr 40 hour week	$ 160.00	$ 640.00	$ 2560.00	$ 3840.00
Supervision, Eng. Geology (DLG) 50/day 2 days week	100.00	400.00	1600.00	2400.00
Sub Total		1040.00	4160.00	6240.00

(c) Operating Equipment & Supplies

Mileage on cars			
Miners 1000 Miles/Mo @ 7¢	70.00	280.00	420.00
Pickup or truck do	70.00	280.00	420.00
DLG do	70.00	280.00	420.00
Powder 10 cases/Mo @ 11.50	115.00	460.00	690.00
Fuse 3000 ft/Mo	40.00	160.00	240.00
Caps 2.75/100 2 boxes	5.50	22.00	33.00
Steel	100.00	400.00	600.00
Lube oil	10.00	40.00	60.00
Timber	50.00	200.00	300.00
Gasoline for Compressor	90.00	360.00	540.00

Nails, bolts, etc	25.00	100.00	150.00
Small tools	50.00	50.00	50.00
300 feet 1½ inch pipe	150.00	150.00	150.00
300 feet 1 inch pipe	150.00	150.00	150.00
Valves, couplings, fittings	100.00	100.00	100.00
Mine Rail, ties, spikes, bolts	300.00	300.00	300.00
Total Supplies	1185.50	2492.00	3363.00
Sales tax (carried to g)	35.55	74.76	100.89
Sub total	$ 1395.50	$ 3332.00	$ 4623.00

(d) Operating Equipment

	Purchase Price	Rental or Use Factor 1 Mo.	4 Mo. (Probable)	6 Mo. (Maximum)
Compressor (110) *	$ 1900.00	$ 140.00	$ 560.00	$ 840.00
Water trailor	200.00	25.00	100.00	150.00
Thor Hammer 38 *	600.00	35.00	140.00	210.00
Jack leg	160.00	10.00	40.00	60.00
Hose & Connections *	100.00	5.00	20.00	30.00
Air slusher & scraper *	800.00	40.00	160.00	240.00
Wire Rope	50.00	50.00	50.00	50.00
Mine car 2nd hand	50.00	5.00	20.00	30.00
Pickup or truck	1500.00	100.00	400.00	600.00
Ultra violet light	80.00	5.00	20.00	30.00
Sub Total	5440.00	415.00	1510.00	2240.00

Note: * indicates rental available.

(e) Rehabilitation & Repairs – None

(f) New Buildings & Improvements

1 shack with lock for tools	250.00	250.00	250.00	250.00
1 2nd hand trailor with stove *	500.00	50.00	200.00	300.00
Powder Magazine	50.00	50.00	50.00	50.00
Fuse & Cap magazine	50.00	50.00	50.00	50.00
Sub Total	$ 850.00	$400.00	$550.00	$650.00

(g) Sales taxes on Purchases	153.65	153.65	153.65
Sales tax on supplies (from c)	35.55	74.76	100.89
Workmans Comp & Liab. Ins 60/Mo plus 250.00	310.00	490.00	610.00
Payroll taxes (Soc.Sec.) 2%	12.80	51.20	76.80
Accounting & Reports to DMEA	150.00	600.00	900.00
Assays	50.00	200.00	300.00
Sub Total	$ 712.00	$ 1569.61	$ 2141.34

D.B. Hempstead
Box 631
Beverley Hills
California

Recapitulation and Summary

		1 month	4 months	6 months
(b)	Labor	$ 1040.00	$ 4160.00	$ 6240.00
(c)	Operating equip. and supplies	1395.50	3332.00	4623.00
(d)	Operating equip.	415.00	1510.00	2240.00
(e)	None			
(f)	New Bldg.	400.00	550.00	650.00
(g)	Ins. & Taxes	712.00	1569.61	2141.34
	Sub Total	3962.50	11121.61	15894.34
Contingencies @ 10%		396.25	1112.16	1589.43
	Grand Total	$ 4358.75	$ 12,233.77	$ 17,483.77

MEMBER: A.I.M.E.,
A.A.P.G., A.W.W.A.,
SOC. OF ECON. GEOL.

(David B. Hempstead
Box 631
Beverly Hills, California)

DION L. GARDNER, M. A.
GEOLOGIST - ENGINEER
1815 WEST CHAPMAN
ORANGE, CALIFORNIA
ORANGE 1389-J

Statement of the Training, Experience, and Publications
of
Dion L. Gardner

College University of California, Berkeley, Department of Geological Science.

Degrees A. B. Degree, 1929. Master's, M. A. in Geological Science, 1932.

Honorary Societies Theta Tau

Scientific Societies
Member - American Institute Of Mining Engineers
Member - Society of Economic Geologists
Member - American Geophysical Union
Member - American Association of Petroleum Geologists
Member - American Water Works Association

Experience

1945 to Date - Geologist, Independent Consulting
Specializing in the metals of gold, silver, and tungsten. I have recently done consulting work in oil and water geology.

1942-1945 Prisoner of War at Santo Tomas Internment Camp, Manila, Philippines. I am now completely recovered and my health is unimpaired.

1936-1942 Geologist, later Chief Geologist, Southern Division, Marsman & Co., Inc., Paracale District, Philippines. In charge of geological work and diamond drilling for three operating mines, and examination work on the outside properties, both in the Paracale District and elsewhere. In addition, supervised engineering department at San Mauricio Mining Co., as well as the Geological Department. Total daily tonnage of all properties was about 900; about 2000 feet of operating development and 2000 feet of capital development per month mapped by combined geological staffs under my supervision. Prepared development recommendations and ore reserve estimates twice yearly. Licensed Mining Engineer # 196 Philippine Islands, as ofDDecember 27, 1939.

1932-1936 Various minor jobs

1929-1932 Studying for a Master's Degree at the University of California, Berkeley and part time Geologist for the California State Division of Mines, working in the Newberry and Ord Mountains, San Bernardino County, California.

David B. Hempstead
Box 631
Beverly Hills, California

5. (d) Background of the Applicant with Relation to the Ability to Carry Out Such Exploration Project

David B. Hempstead - Capital Investor, Executive, Writer

STOCKHOLDER - Current and/or sometime minority stockholder in the following mining and related enterprises:

Aluminum Ltd. (Canada)
Banner Copper Mining Co.
Consolidated Eureka Mining Co.
Croff Mining Co.
Kennecott Copper Corp.
Natomas Company
Rico Argentine Mining Co.
Smelters Development Corp.
Southern Production Co.
Texas Illinois Natural Gas Pipeline Co.
Tintic Standard Mining Co.
United Electric Coal Co's.
United Park City Mines
Westates Petroleum Co.
West Kentucky Coal Co.
West Virginia Pulp and Paper Co.

DEGREES A. B. University of Michigan 1931
Honors in English, secondary subject, Geology

EXPERIENCE

1931 - to date: Author of various stories and articles for magazines and motion pictures.

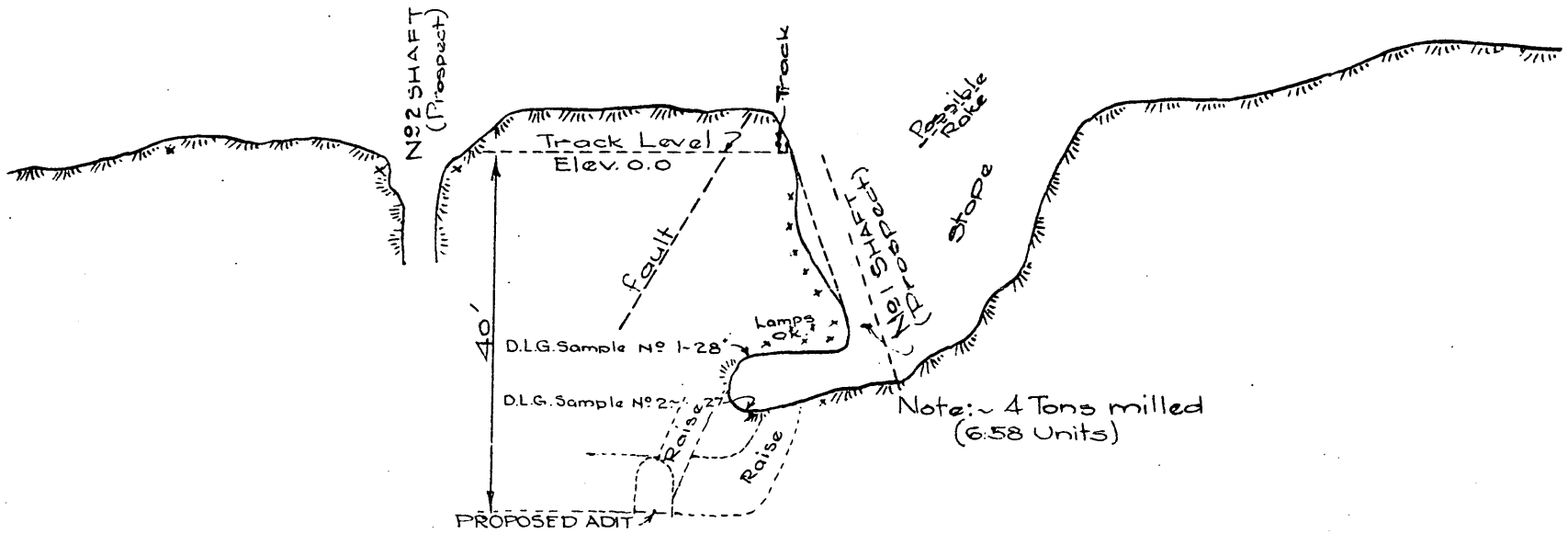
1935 - 1939; Producer of motion pictures for Twentieth Century Fox Film Co. Supervised expenditures in such production aggragating approximately $4,000,000

1939 - 1945: Producer of motion pictures for R.K.O. RADIO STUDIOS INC. Supervised expenditures in such production aggragating approximately $7,000,000

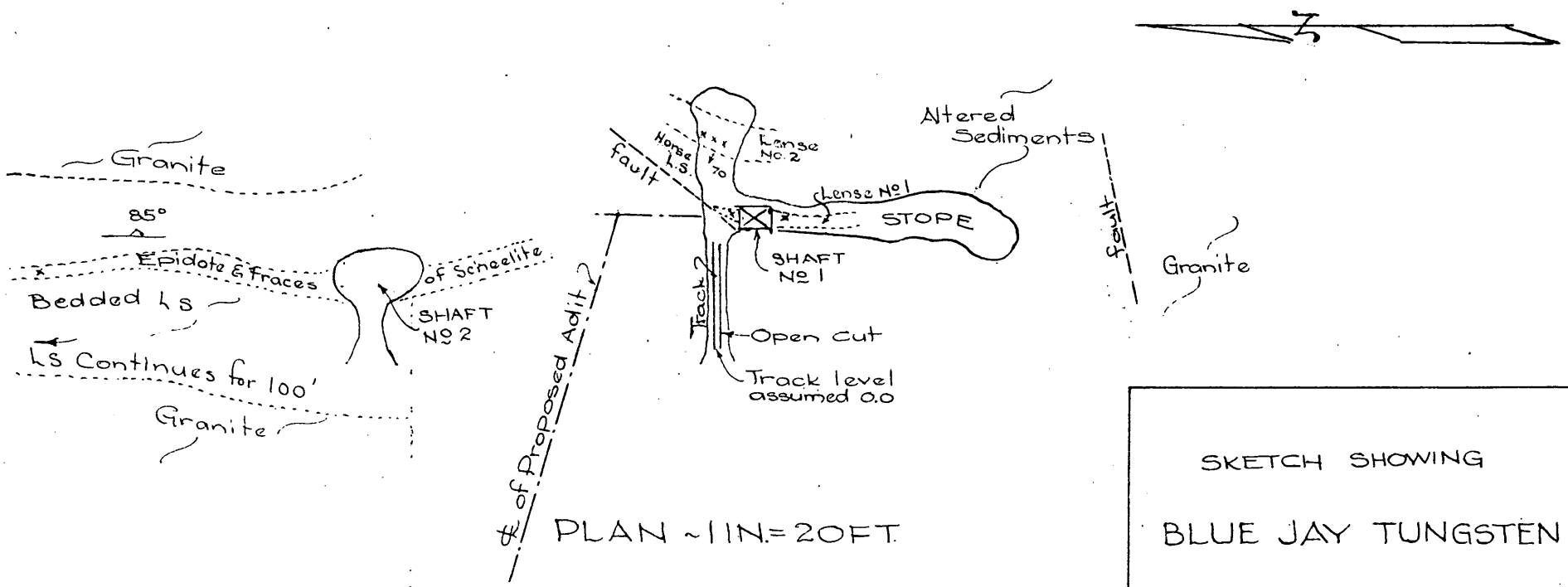
1946 - 1948: Producer of motion pictures in association with David O. Selznick

1951 - 1953: Writer and producer of motion pictures for Twentieth Century Fox Film Co.

N.B. : Recovered from illness suffered 1948 - 1951



SECTION ~ 1 IN = 20 FT.



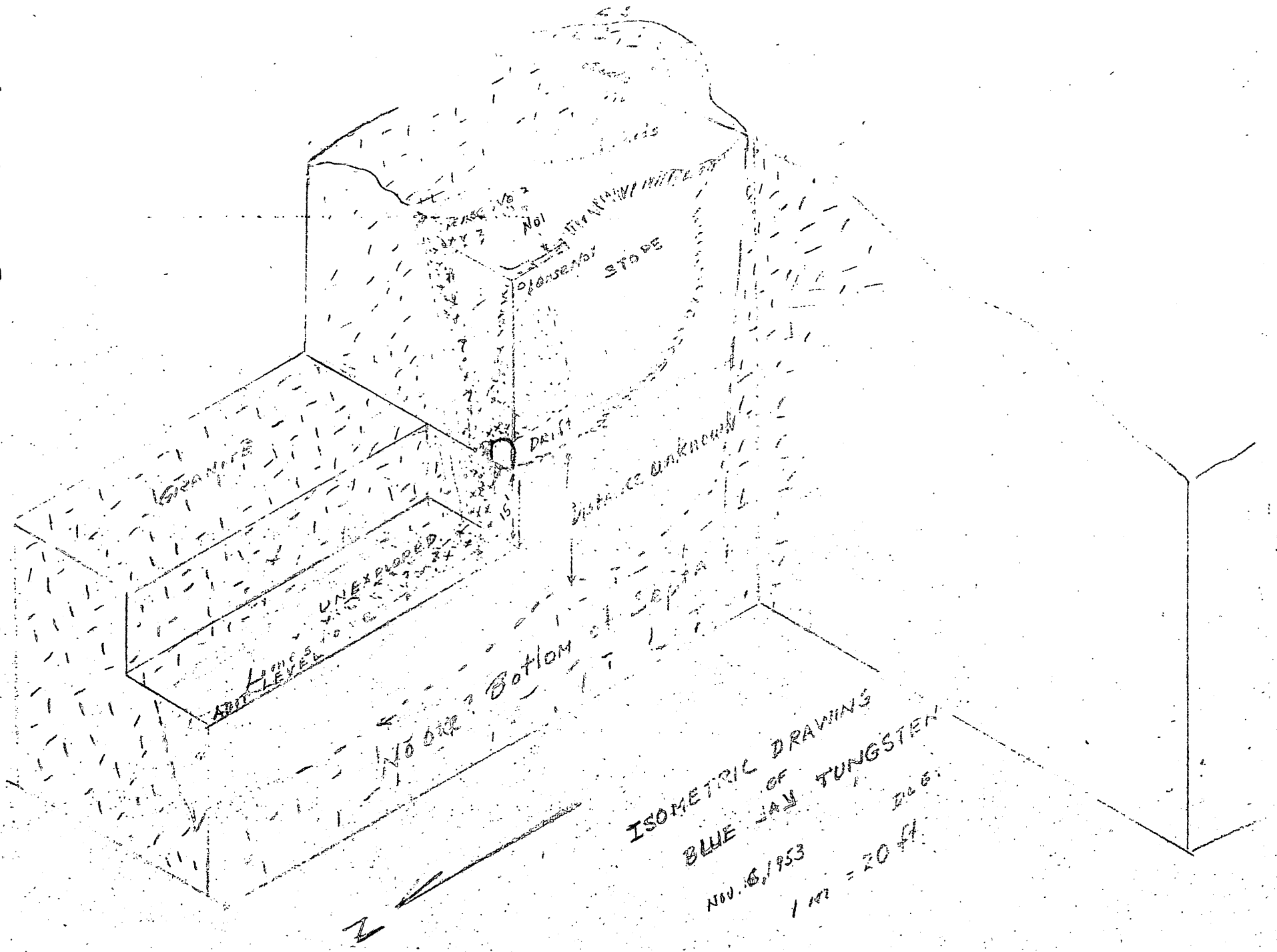
PLAN ~ 1 IN = 20 FT.

SKETCH SHOWING

BLUE JAY TUNGSTEN

Nov. 15, 1953. D.L. GARDNER

David R. Hempstead
Box 631
Beverly Hills, California



David B. Hempstead
Box 631
Beverly Hills, California

AGREEMENT FOR SALE OF MINING CLAIM

This Agreement made this 17th day of November 1953, by and between Vernon W. Jay, hereinafter called Seller and David B. Hempstead, hereinafter called Buyer,

W I T N E S S E T H:

That the said Seller, in consideration of the agreements on the part of the said Buyer hereinafter contained, agrees to sell and convey unto the said Buyer, and the said Buyer agrees to purchase, those certain unpatented mining claims located in the County of San Bernardino, State of California described as follows:

> The Blue Jay, no. 2, lode mining claim as recorded in book 317 at page 560, official mining records of San Bernardino County and the Blue Jay lode mining claim recorded in book 317 at page 294 mining records of the County of San Bernardino, State of California,

paramount title to said claims being held by the Government of the United States, and said Jay's claims being mining claims only.

The price, or principal sum, for which Seller agrees to sell and Buyer agrees to buy said mining claims is the sum of Five Thousand Dollars ($5,000.00), and Buyer in consideration of the premises, promises and agrees to pay to Seller said sum as follows: Six hundred Dollars ($600.00) upon the signing and delivery hereof, receipt of which sum is hereby acknowledged; Fifteen Hundred Dollars ($1,500.00) on the 19th day of May, 1954; One Thousand Four Hundred Fifty Dollars ($1,450.00) on the 19th day of November, 1954; One Thousand Four Hundred Fifty Dollars ($1,450.00) on the 19th day of May, 1955. Said payments shall be without interest, provided however, that all payments past due shall bear interest at the rate of six per cent (6%) per annum. All payments due and to become due Seller hereunder shall be paid to Seller at the office of Attorney Conrad E. Mahlum, 303 East Main Street, Barstow, California.

Time is of the essence of this agreement. In the event of failure by the Buyer to perform any of the conditions of this agree-

David B. Hempstead.
Box 631
Beverly Hills, California

1 ment provided to be performed by said Buyer, or the failure on the
2 part of Buyer to make any of the payments provided for herein, the
3 Seller may give written notice of such default to the Buyer by
4 Registered Mail addressed to Box 631, Beverly Hills, California
5 and in the event the Buyer does not remedy such default within
6 thirty days (30) from date of such notice, the Seller may, at his
7 option, terminate this Agreement and declare the same and all sums
8 paid hereunder forfeited. That in the event of Buyer's failure
9 to pay any of the payments herein provided, Seller's only remedy
10 shall be to forfeit Buyer's interest in said mining claims and the
11 sums paid prior thereto; that Buyer shall not be required to pay
12 any payments on the purchase price then due or to become due there-
13 after.

14 That concurrently with the signing hereof, a Deed to said
15 mining claims shall be deposited with Attorney Conrad E. Mahlum to
16 be held by said attorney pursuant to instructions signed on even
17 date herewith.

18 That prior to the 25th day of June, 1954, and each year there-
19 after, the Buyer does hereby agree to perform all annual labor re-
20 quired to be performed to enable Seller to retain his claims in and
21 to said premises, and Buyer agrees to cause to be recorded the re-
22 quired Notice of Performing of the Annual Labor in the office of
23 the County Recorder of San Bernardino County; that in the event
24 Buyer fails to perform such act, the Seller may perform the same at
25 his option and Buyer shall pay to Seller on demand all loss or ex-
26 penses occasioned by Buyer's failure to do such acts.

27 Seller agrees to keep said premises and every part thereof at
28 all times free and clear of all mechanics, miners' and/or other
29 labor liens and encumbrances of every other nature and description
30 and to pay all indebtedness and liabilities incurred by the Buyer
31 which may or might become a lien on said premises before said in-
32 debtedness and/or liabilities shall become such lien.

David B. Hempstead
Box 631
Beverly Hills, California

All mining work on said property shall be conducted in a miner like fashion and in a manner necessary proper to good and economical mining so as to take out the greatest amount of ore possible with regard toward maintaining mining operations in a safe condition and as a workable mine.

If court action be instituted on this Agreement the party D.B.H. V.W.J. prevailing in said action shall be entitled to such sum As the Court may fix as is reasonable attorney's fees.

That in the event of the termination of this Agreement for any cause whatsoever, then and in that event, the Seller may take possession of said premises, with or without process of law, and Buyer shall and will peacefully surrender and yield up the said premises and every part and portion thereof to the Seller, free and clear of any and all liens and all encumbrances; that upon such termination, Buyer's interest in and to said premises shall cease and determine forever and all sums paid Seller shall be retained by Seller to be applied as and towards liquidated damages.

IN WITNESS WHEREOF, the said parties have executed these presents the day and year first above written.

David B. Hempstead
BUYER

Vernon W. Jay
SELLER

Subscribed and sworn to before me this 17th day of November, 1953.

Conrad E. Mahlum
CONRAD E. MAHLUM
Notary Public

David B. Hempstead
Box 631
Beverly Hills, California

INSTRUCTIONS

To: Conrad E. Mahlum

We herewith hand you Deed to mining claims described as Blue Jay no. 2 lode claim and Blue Jay lode claim. You are hereby instructed to hold said Deed until the undersigned, David B. Hempstead, performs all covenants and agreements contained in that certain agreement for sale of said mining claims signed on even date herewith. In the event Hempstead should not comply with the terms and agreements contained in said agreement after receiving a thirty day notice to comply from Vernon Jay, you are hereby instructed to return said Deed to said Jay. Upon compliance, surrender Deed to Hempstead.

Dated: November 17, 1953.

David B. Hempstead
DAVID B. HEMPSTEAD

Vernon Jay
VERNON JAY

David B. Hempstead
Box 631
Beverly Hills, California

AGREEMENT FOR SALE OF MINING CLAIM

This Agreement made this 17th day of November 1953, by and between Vernon W. Jay, hereinafter called Seller and David B. Hempstead, hereinafter called Buyer,

W I T N E S S E T H:

That the said Seller, in consideration of the agreements on the part of the said Buyer hereinafter contained, agrees to sell and convey unto the said Buyer, and the said Buyer agrees to purchase, those certain unpatented mining claims located in the County of San Bernardino, State of California described as follows:

> The Blue Jay, no. 2, lode mining claim as recorded in book 317 at page 560, official mining records of San Bernardino County and the Blue Jay lode mining claim recorded in book 317 at page 294 mining records of the County of San Bernardino, State of California,

paramount title to said claims being held by the Government of the United States, and said Jay's claims being mining claims only.

The price, or principal sum, for which Seller agrees to sell and Buyer agrees to buy said mining claims is the sum of Five Thousand Dollars ($5,000.00), and Buyer in consideration of the premises, promises and agrees to pay to Seller said sum as follows: Six hundred Dollars ($600.00) upon the signing and delivery hereof, receipt of which sum is hereby acknowledged; Fifteen Hundred Dollars ($1,500.00) on the 19th day of May, 1954; One Thousand Four Hundred Fifty Dollars ($1,450.00) on the 19th day of November, 1954; One Thousand Four Hundred Fifty Dollars ($1,450.00) on the 19th day of May, 1955. Said payments shall be without interest, provided however, that all payments past due shall bear interest at the rate of six per cent (6%) per annum. All payments due and to become due Seller hereunder shall be paid to Seller at the office of Attorney Conrad E. Mahlum, 303 East Main Street, Barstow, California.

Time is of the essence of this agreement. In the event of failure by the Buyer to perform any of the conditions of this agree-

1 ment provided to be performed by said Buyer, or the failure on the
2 part of Buyer to make any of the payments provided for herein, the
3 Seller may give written notice of such default to the Buyer by
4 Registered Mail addressed to Box 631, Beverly Hills, California
5 and in the event the Buyer does not remedy such default within
6 thirty days (30) from date of such notice, the Seller may, at his
7 option, terminate this Agreement and declare the same and all sums
8 paid hereunder forfeited. That in the event of Buyer's failure
9 to pay any of the payments herein provided, Seller's only remedy
10 shall be to forfeit Buyer's interest in said mining claims and the
11 sums paid prior thereto; that Buyer shall not be required to pay
12 any payments on the purchase price then due or to become due there-
13 after.

14 That concurrently with the signing hereof, a Deed to said
15 mining claims shall be deposited with Attorney Conrad E. Mahlum to
16 be held by said attorney pursuant to instructions signed on even
17 date herewith.

18 That prior to the 25th day of June, 1954, and each year there-
19 after, the Buyer does hereby agree to perform all annual labor re-
20 quired to be performed to enable Seller to retain his claims in and
21 to said premises, and Buyer agrees to cause to be recorded the re-
22 quired Notice of Performing of the Annual Labor in the office of
23 the County Recorder of San Bernardino County; that in the event
24 Buyer fails to perform such act, the Seller may perform the same at
25 his option and Buyer shall pay to Seller on demand all loss or ex-
26 penses occasioned by Buyer's failure to do such acts.

27 Seller agrees to keep said premises and every part thereof at
28 all times free and clear of all mechanics, miners' and/or other
29 labor liens and encumbrances of every other nature and description
30 and to pay all indebtedness and liabilities incurred by the Buyer
31 which may or might become a lien on said premises before said in-
32 debtedness and/or liabilities shall become such lien.

David B. Hempstead
Box 631
Beverly Hills, California

All mining work on said property shall be conducted in a miner like fashion and in a manner necessary proper to good and economical mining so as to take out the greatest amount of ore possible with regard toward maintaining mining operations in a safe condition and as a workable mine.

If court action be instituted on this Agreement the party D.B.H. V.W.J. prevailing in said action shall be entitled to such sum As the Court may fix as is reasonable attorney's fees.

That in the event of the termination of this Agreement for any cause whatsoever, then and in that event, the Seller may take possession of said premises, with or without process of law, and Buyer shall and will peacefully surrender and yield up the said premises and every part and portion thereof to the Seller, free and clear of any and all liens and all encumbrances; that upon such termination, Buyer's interest in and to said premises shall cease and determine forever and all sums paid Seller shall be retained by Seller to be applied as and towards liquidated damages.

IN WITNESS WHEREOF, the said parties have executed these presents the day and year first above written.

David B. Hempstead
BUYER

Vernon W. Jay.
SELLER

Subscribed and sworn to before me this 17th day of November, 1953.

Conrad E. Mahlum
CONRAD E. MAHLUM
Notary Public

David B. Hempstead
Box 631
Beverly Hills, California

INSTRUCTIONS

To: Conrad E. Mahlum

We herewith hand you Deed to mining claims described as Blue Jay no. 2 lode claim and Blue Jay lode claim. You are hereby instructed to hold said Deed until the undersigned, David B. Hempstead, performs all covenants and agreements contained in that certain agreement for sale of said mining claims signed on even date herewith. In the event Hempstead should not comply with the terms and agreements contained in said agreement after receiving a thirty day notice to comply from Vernon Jay, you are hereby instructed to return said Deed to said Jay. Upon compliance, surrender Deed to Hempstead.

Dated: November 17, 1953.

David B. Hempstead
DAVID B. HEMPSTEAD

Vernon Jay
VERNON JAY

David B. Hempstead
Box 631
Beverly Hills, California

AGREEMENT FOR SALE OF MINING CLAIM

This Agreement made this 17th day of November 1953, by and between Vernon W. Jay, hereinafter called Seller and David B. Hempstead, hereinafter called Buyer,

W I T N E S S E T H:

That the said Seller, in consideration of the agreements on the part of the said Buyer hereinafter contained, agrees to sell and convey unto the said Buyer, and the said Buyer agrees to purchase, those certain unpatented mining claims located in the County of San Bernardino, State of California described as follows:

> The Blue Jay, no. 2, lode mining claim as recorded in book 317 at page 560, official mining records of San Bernardino County and the Blue Jay lode mining claim recorded in book 317 at page 294 mining records of the County of San Bernardino, State of California,

paramount title to said claims being held by the Government of the United States, and said Jay's claims being mining claims only.

The price, or principal sum, for which Seller agrees to sell and Buyer agrees to buy said mining claims is the sum of Five Thousand Dollars ($5,000.00), and Buyer in consideration of the premises, promises and agrees to pay to Seller said sum as follows: Six hundred Dollars ($600.00) upon the signing and delivery hereof, receipt of which sum is hereby acknowledged; Fifteen Hundred Dollars ($1,500.00) on the 19th day of May, 1954; One Thousand Four Hundred Fifty Dollars ($1,450.00) on the 19th day of November, 1954; One Thousand Four Hundred Fifty Dollars ($1,450.00) on the 19th day of May, 1955. Said payments shall be without interest, provided however, that all payments past due shall bear interest at the rate of six per cent (6%) per annum. All payments due and to become due Seller hereunder shall be paid to Seller at the office of Attorney Conrad E. Mahlum, 303 East Main Street, Barstow, California.

Time is of the essence of this agreement. In the event of failure by the Buyer to perform any of the conditions of this agree-

David B. Hempstead.
Box 631
Beverly Hills, California

ment provided to be performed by said Buyer, or the failure on the part of Buyer to make any of the payments provided for herein, the Seller may give written notice of such default to the Buyer by Registered Mail addressed to Box 631, Beverly Hills, California and in the event the Buyer does not remedy such default within thirty days (30) from date of such notice, the Seller may, at his option, terminate this Agreement and declare the same and all sums paid hereunder forfeited. That in the event of Buyer's failure to pay any of the payments herein provided, Seller's only remedy shall be to forfeit Buyer's interest in said mining claims and the sums paid prior thereto; that Buyer shall not be required to pay any payments on the purchase price then due or to become due thereafter.

That concurrently with the signing hereof, a Deed to said mining claims shall be deposited with Attorney Conrad E. Mahlum to be held by said attorney pursuant to instructions signed on even date herewith.

That prior to the 25th day of June, 1954, and each year thereafter, the Buyer does hereby agree to perform all annual labor required to be performed to enable Seller to retain his claims in and to said premises, and Buyer agrees to cause to be recorded the required Notice of Performing of the Annual Labor in the office of the County Recorder of San Bernardino County; that in the event Buyer fails to perform such act, the Seller may perform the same at his option and Buyer shall pay to Seller on demand all loss or expenses occasioned by Buyer's failure to do such acts.

Seller agrees to keep said premises and every part thereof at all times free and clear of all mechanics, miners' and/or other labor liens and encumbrances of every other nature and description and to pay all indebtedness and liabilities incurred by the Buyer which may or might become a lien on said premises before said indebtedness and/or liabilities shall become such lien.

David B. Hempstead
Box 631
Beverly Hills, California

All mining work on said property shall be conducted in a miner like fashion and in a manner necessary proper to good and economical mining so as to take out the greatest amount of ore possible with regard toward maintaining mining operations in a safe condition and as a workable mine.

If court action be instituted on this Agreement the party DBH. VJ. prevailing in said action shall be entitled to such sum As the Court may fix as is reasonable attorney's fees.

That in the event of the termination of this Agreement for any cause whatsoever, then and in that event, the Seller may take possession of said premises, with or without process of law, and Buyer shall and will peacefully surrender and yield up the said premises and every part and portion thereof to the Seller, free and clear of any and all liens and all encumbrances; that upon such termination, Buyer's interest in and to said premises shall cease and determine forever and all sums paid Seller shall be retained by Seller to be applied as and towards liquidated damages.

IN WITNESS WHEREOF, the said parties have executed these presents the day and year first above written.

David B. Hempstead
BUYER

Vernon W. Jay
SELLER

Subscribed and sworn to before me this 17th day of November, 1953.

Conrad E. Mahlum
CONRAD E. MAHLUM
Notary Public

David B. Hempstead
Box 631
Beverly Hills, California

INSTRUCTIONS

To: Conrad E. Mahlum

We herewith hand you Deed to mining claims described as Blue Jay no. 2 lode claim and Blue Jay lode claim. You are hereby instructed to hold said Deed until the undersigned, David B. Hempstead, performs all covenants and agreements contained in that certain agreement for sale of said mining claims signed on even date herewith. In the event Hempstead should not comply with the terms and agreements contained in said agreement after receiving a thirty day notice to comply from Vernon Jay, you are hereby instructed to return said Deed to said Jay. Upon compliance, surrender Deed to Hempstead.

Dated: November 17, 1953.

David B. Hempstead
DAVID B. HEMPSTEAD

Vernon Jay
VERNON JAY

David B. Hempstead
Box 631
Beverly Hills, California

AGREEMENT FOR SALE OF MINING CLAIM

This Agreement made this 17th day of November 1953, by and between Vernon W. Jay, hereinafter called Seller and David B. Hempstead, hereinafter called Buyer,

W I T N E S S E T H:

That the said Seller, in consideration of the agreements on the part of the said Buyer hereinafter contained, agrees to sell and convey unto the said Buyer, and the said Buyer agrees to purchase, those certain unpatented mining claims located in the County of San Bernardino, State of California described as follows:

> The Blue Jay, no. 2, lode mining claim as recorded in book 317 at page 560, official mining records of San Bernardino County and the Blue Jay lode mining claim recorded in book 317 at page 294 mining records of the County of San Bernardino, State of California,

paramount title to said claims being held by the Government of the United States, and said Jay's claims being mining claims only.

The price, or principal sum, for which Seller agrees to sell and Buyer agrees to buy said mining claims is the sum of Five Thousand Dollars ($5,000.00), and Buyer in consideration of the premises, promises and agrees to pay to Seller said sum as follows: Six hundred Dollars ($600.00) upon the signing and delivery hereof, receipt of which sum is hereby acknowledged; Fifteen Hundred Dollars ($1,500.00) on the 19th day of May, 1954; One Thousand Four Hundred Fifty Dollars ($1,450.00) on the 19th day of November, 1954; One Thousand Four Hundred Fifty Dollars ($1,450.00) on the 19th day of May, 1955. Said payments shall be without interest, provided however, that all payments past due shall bear interest at the rate of six per cent (6%) per annum. All payments due and to become due Seller hereunder shall be paid to Seller at the office of Attorney Conrad E. Mahlum, 303 East Main Street, Barstow, California.

Time is of the essence of this agreement. In the event of failure by the Buyer to perform any of the conditions of this agree-

David B. Hempstead
Box 631
Beverly Hills, California

1 ment provided to be performed by said Buyer, or the failure on the
2 part of Buyer to make any of the payments provided for herein, the
3 Seller may give written notice of such default to the Buyer by
4 Registered Mail addressed to Box 631, Beverly Hills, California
5 and in the event the Buyer does not remedy such default within
6 thirty days (30) from date of such notice, the Seller may, at his
7 option, terminate this Agreement and declare the same and all sums
8 paid hereunder forfeited. That in the event of Buyer's failure
9 to pay any of the payments herein provided, Seller's only remedy
10 shall be to forfeit Buyer's interest in said mining claims and the
11 sums paid prior thereto; that Buyer shall not be required to pay
12 any payments on the purchase price then due or to become due there-
13 after.

14 That concurrently with the signing hereof, a Deed to said
15 mining claims shall be deposited with Attorney Conrad E. Mahlum to
16 be held by said attorney pursuant to instructions signed on even
17 date herewith.

18 That prior to the 25th day of June, 1954, and each year there-
19 after, the Buyer does hereby agree to perform all annual labor re-
20 quired to be performed to enable Seller to retain his claims in and
21 to said premises, and Buyer agrees to cause to be recorded the re-
22 quired Notice of Performing of the Annual Labor in the office of
23 the County Recorder of San Bernardino County; that in the event
24 Buyer fails to perform such act, the Seller may perform the same at
25 his option and Buyer shall pay to Seller on demand all loss or ex-
26 penses occasioned by Buyer's failure to do such acts.

27 Seller agrees to keep said premises and every part thereof at
28 all times free and clear of all mechanics, miners' and/or other
29 labor liens and encumbrances of every other nature and description
30 and to pay all indebtedness and liabilities incurred by the Buyer
31 which may or might become a lien on said premises before said in-
32 debtedness and/or liabilities shall become such lien.

David B. Hempstead
Box 631
Beverly Hills, California

All mining work on said property shall be conducted in a miner like fashion and in a manner necessary proper to good and economical mining so as to take out the greatest amount of ore possible with regard toward maintaining mining operations in a safe condition and as a workable mine.

If court action be instituted on this Agreement the party D.B.H. V.W.J. prevailing in said action shall be entitled to such sum As the Court may fix as is reasonable attorney's fees.

That in the event of the termination of this Agreement for any cause whatsoever, then and in that event, the Seller may take possession of said premises, with or without process of law, and Buyer shall and will peacefully surrender and yield up the said premises and every part and portion thereof to the Seller, free and clear of any and all liens and all encumbrances; that upon such termination, Buyer's interest in and to said premises shall cease and determine forever and all sums paid Seller shall be retained by Seller to be applied as and towards liquidated damages.

IN WITNESS WHEREOF, the said parties have executed these presents the day and year first above written.

David B. Hempstead
BUYER

Vernon W. Jay
SELLER

Subscribed and sworn to before me this 17th day of November, 1953.

Conrad E. Mahlum
CONRAD E. MAHLUM
Notary Public

David B. Hempstead
Box 631
Beverly Hills, California

INSTRUCTIONS

To: Conrad E. Mahlum

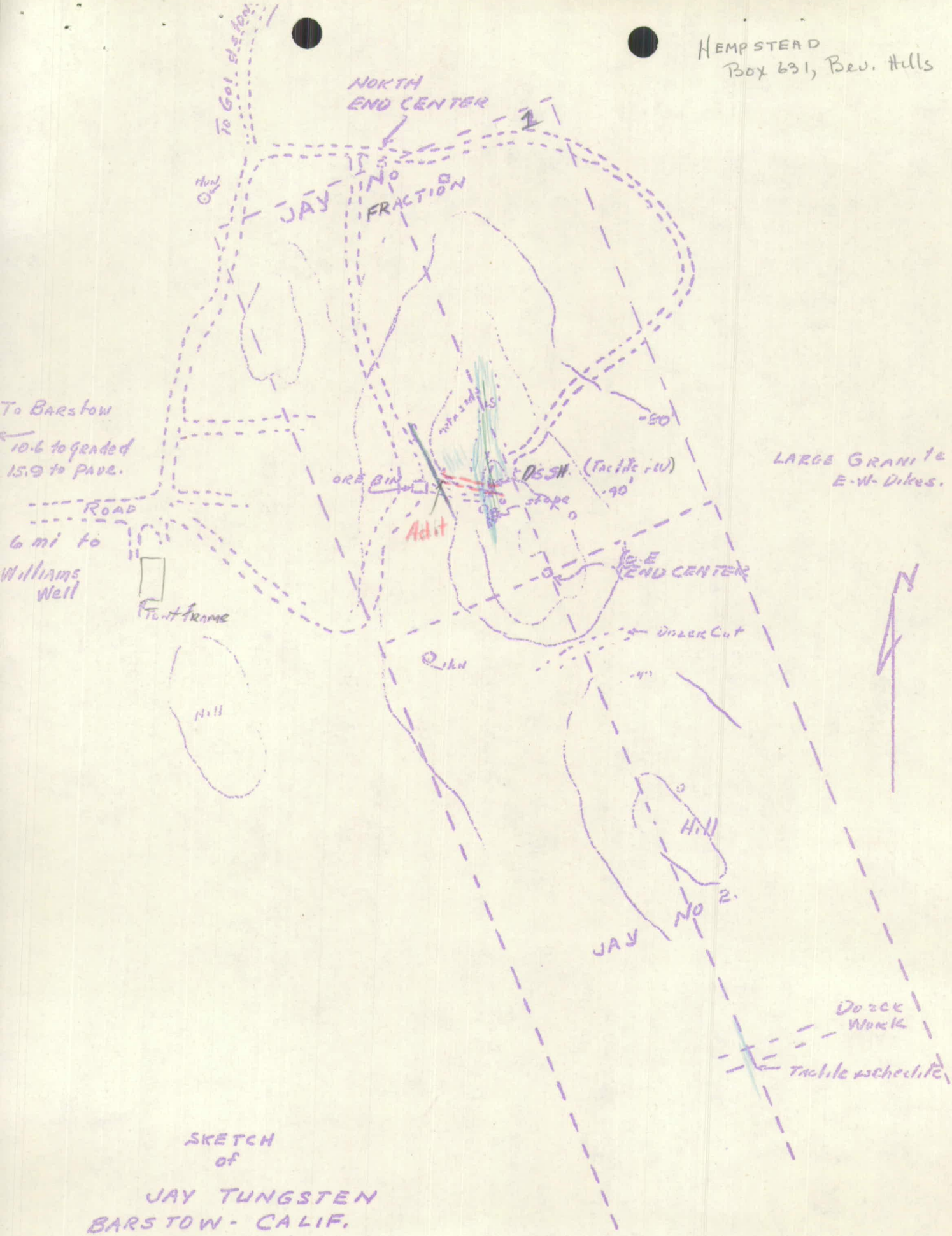
We herewith hand you Deed to mining claims described as Blue Jay no. 2 lode claim and Blue Jay lode claim. You are hereby instructed to hold said Deed until the undersigned, David B. Hempstead, performs all covenants and agreements contained in that certain agreement for sale of said mining claims signed on even date herewith. In the event Hempstead should not comply with the terms and agreements contained in said agreement after receiving a thirty day notice to comply from Vernon Jay, you are hereby instructed to return said Deed to said Jay. Upon compliance, surrender Deed to Hempstead.

Dated: November 17, 1953.

David B. Hempstead
DAVID B. HEMPSTEAD

Vernon Jay
VERNON JAY

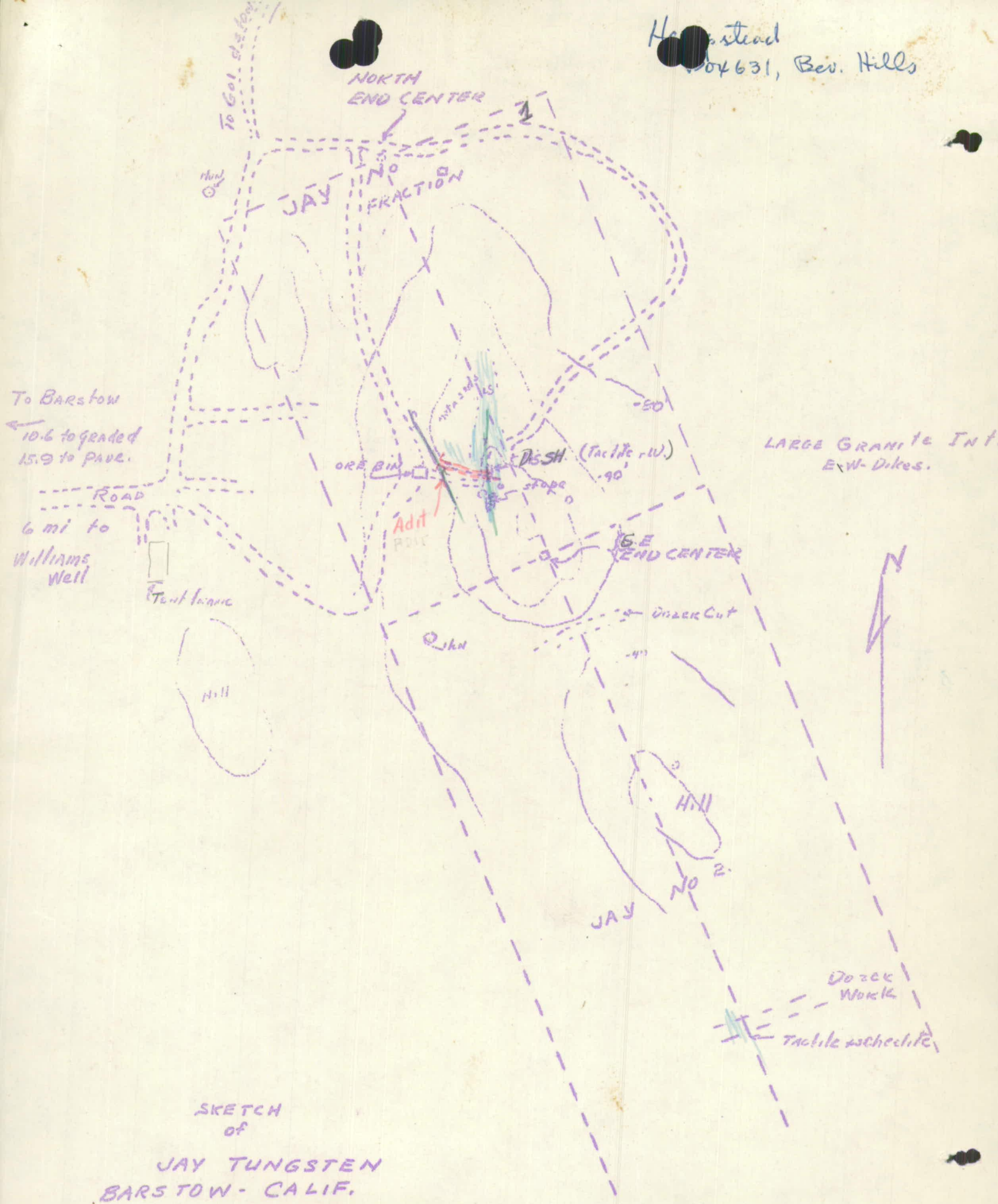
HEMPSTEAD
Box 631, Bev. Hills



SKETCH
of
JAY TUNGSTEN
BARSTOW - CALIF.
1" = 200 ft

Dec. 8, 1953 D.L.G. - CONTOURS APPROX.

Hamstead
Box 631, Bev. Hills



SKETCH
of
JAY TUNGSTEN
BARSTOW - CALIF.
1" = 200 ft

Dec. 8, 1953 D.L.G. - CONTOURS APPROX.
TRACK = D (ASSUMED)