DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3977

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Routing Slip

To:	400	Date	9/14/55
To:	Oper Com	Date	9-23-55
To:	" "	Date	11/25/55
To:	Mr. Johnson	Date	11/26/55
To:		Date	
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400

NOV 25 1955

denial

Mr. Mathias Rago, Jr.
337 Halsma Street, Box 322
Ridgecrest, California

Re: Docket No. DMEA 3977 - Tungsten
Greyhill and Ruby Rock claims
Kern County, California

Dear Mr. Rago:

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

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

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

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

Sincerely yours,

Frank [illegible]

Administrator

ADMcMahon/fee
11-22-55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. II
Messrs. Halliday, USBM
Kilsgaard, USGS

denied

November 22, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $2,000.00
Docket No. DMEA 3977 - Tungsten
Mr. Mathias Hugo, Jr.
Grayhill and Elms Rock claims
Kern County, California

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

(1) The applicant, Mr. Mathias Hugo, Jr., 337 Balsam Street, Ridgecrest, California requested exploration assistance in the amount of $2,000.00 for bulldozing and crosscutting.

(2) The applicant controls by ownership the unpatented Grayhill and Elms Rock claims in sec. 32, T. 25S, R. 38 E., M.D.B.&M., Kern County, California. Ownership was acquired through a quit claim deed obtained from the locators Messrs. Robert D. Norton, Jackson F. Wright and Curtis H. Smith. Location certificates are recorded in Book 2027, Page 486 and Book 2006, Page 203 at Bakersfield, California. Assessment work was recorded for the fiscal year ending July 1, 1955.

(3) The proposed program is to explore the scheelite exposure on the Elms Rock claim by (1) building a road to the discovery cut near the center of the claim and (2) driving a 75 foot crosscut adit into the hillside from the discovery cut.

(4) The claims are developed by two shallow open-cut trenches totaling approximately 70 feet in length with an average width and depth of about five feet. A sample taken across a small lens of scheelite-bearing quartz-mica schist about 18 inches thick, 3 feet long and 1 foot wide averaged 0.19% WO_3. Other scheelite exposures on the claims were examined under the ultraviolet light and judged too small and too low grade to warrant sampling.

The proposed program lacks a target and would explore, at a depth of less than 50 feet, beds of quartz-mica schists that are not mineralized at the surface.

(5) The Field Team concludes that the monazite-bearing material exposed at the surface is so low in grade and so sparsely disseminated that further exploration is unwarranted and recommends denial. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

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

ADMcMahon/foc
11/22/55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.

400

November 21, 1955

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Subject: Docket No. DMEA 3977
Grayhill and Blue Rock Claims
Kern County, California
Mathias Hugo, Jr.
337 Helena Street
Ridgecrest, California
Application for exploration assistance
Field Team Report
$2,000.00-Tungsten

Examination by the field team indicates that the deposit is too small and too low in grade to warrant further exploration.

I concur with the field team recommendation that the application be denied.

R. W. Holliday

RWHolliday/tra

Copy to: Mr. Holliday
Files
Ferrous Metals
Mr. [illegible]

IN REPLY REFER TO:

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

400

November 17, 1955

Re: DMEA 3977
Mathias Hugo, Jr.
Grayhill and Blue Rock Claims
Kern County, California
$2,000 - Tungsten

Memorandum

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

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

Subject: Review of Field Team report.

The applicant requested assistance in exploring an indifferent exposure of scheelite-bearing material.

The conclusions of the examiners coincide with the somewhat veiled but unfavorable opinion of a representative of the Wah Chang Corporation.

I concur with the recommendations of the examiners and Field Team that the application be denied.

N. E. Nelson

N. E. Nelson

NENelson:jeh
11/17/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. Holliday, 3513

RECEIVED
NOV 18 1955

400

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

November 7, 1955

1605 Evans Avenue
Reno, Nevada

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3977 (Tungsten)
Mathias Hugo, Jr.,
Grayhill and Blue Rock Claims
Kern County, California

Reference is made to your letter of September 23, 1955 in which was requested a field examination of subject property.

Attached are four copies of a report by B. H. Sheahan, Bureau of Mines and H. K. Stager, Geological Survey recommending a denial of application for exploration aid.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

SRicker:gh
cc: R. M. Smith
File

Reviewed by
DMEA OPERATING COMMITTEE

(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 3977 (Tungsten)
Grayhill and Blue Rock Claims
Mathias Hugo, Jr.
Kern County, California

by

B. H. Sheahan
Mining Engineer
U. S. Bureau of Mines

H. K. Stager
Geologist
U. S. Geological Survey

November 3, 1955

Reviewed by
DMEA OPERATING COMMITTEE

_____
(date)

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ILLUSTRATIONS

Fig. 1	Location Map
Fig. 2	Geologic Map

INTRODUCTION

Mr. Mathias Hugo, Jr., 337 Helena Street, Ridgecrest, California, applied for Government assistance in a $2,000 program under the Defense Minerals Exploration Administration, docket DMEA-3977, to explore for tungsten on the Grayhill and Blue Rock claims, Kern County, California.

A field examination was requested by the Operating Committee and was made by B. H. Sheahan, U. S. Bureau of Mines, and H. K. Stager, U. S. Geological Survey, on October 13, 1955, accompanied by the applicant.

As no maps or assays were available, the examiners mapped and sampled the surface exposures.

CONCLUSIONS AND RECOMMENDATIONS

The Grayhill and Blue Rock claims contain a small low grade tungsten deposit. The results of the examination indicate that this deposit is too small and too low in grade to warrant further exploration.

The applicant proposed to (1) build a road from the Grayhill claim to the more favorable tungsten-bearing exposures on the Blue Rock claim and (2) explore for tungsten ore bodies by a 75 foot adit on the Blue Rock claim. The Government's share of the estimated cost of $2,000 would be $1,500.

It is recommended that Government assistance under the DMEA program be denied.

EXPLORATION

The claims are developed by two shallow open cut trenches. Total footage amounts to less than 70 feet and the average width and depth of these trenches is about five feet. There has been very little work done on the property since about 1952 judging from the appearance of the open cuts. There are no tools or equipment on the property. The small tool shed indicated on the attached sketch (Fig. 2) was the only surface improvement.

GENERAL GEOLOGY

The Graybill and Blue Rock claims are in an area of moderate relief in the eastern foothills of the Sierra Nevada and the surface is almost completely covered with slope wash. The rocks exposed in the claim area are chiefly schist and hornfels of undetermined age. These rocks are part of a north trending belt of metamorphic rocks bounded on the west by granitic rocks of the Sierra Nevada batholith and on the east by alluvium of the Owens Valley. The metamorphic rocks are highly folded and intruded by numerous pegmatite and aplite dikes along the granitic contact.

The principal metamorphic rock is a dark blue-gray, fine grained, quartz-mica schist. This schist composes the major part of the belt of metamorphic rocks and also occurs as inclusions and small roof pendants in the granitic rock. The strike of the bedding in the schist and also the trend of the inclusions and roof pendants is north to northwest and the dip is from 75° E to 75° W. Interbedded with the schist are thin beds of light-gray-green calc-silicate hornfels.

The granitic rock is a light gray medium-grained granodiorite. Near the contact with the metamorphic rocks the percentage of dark

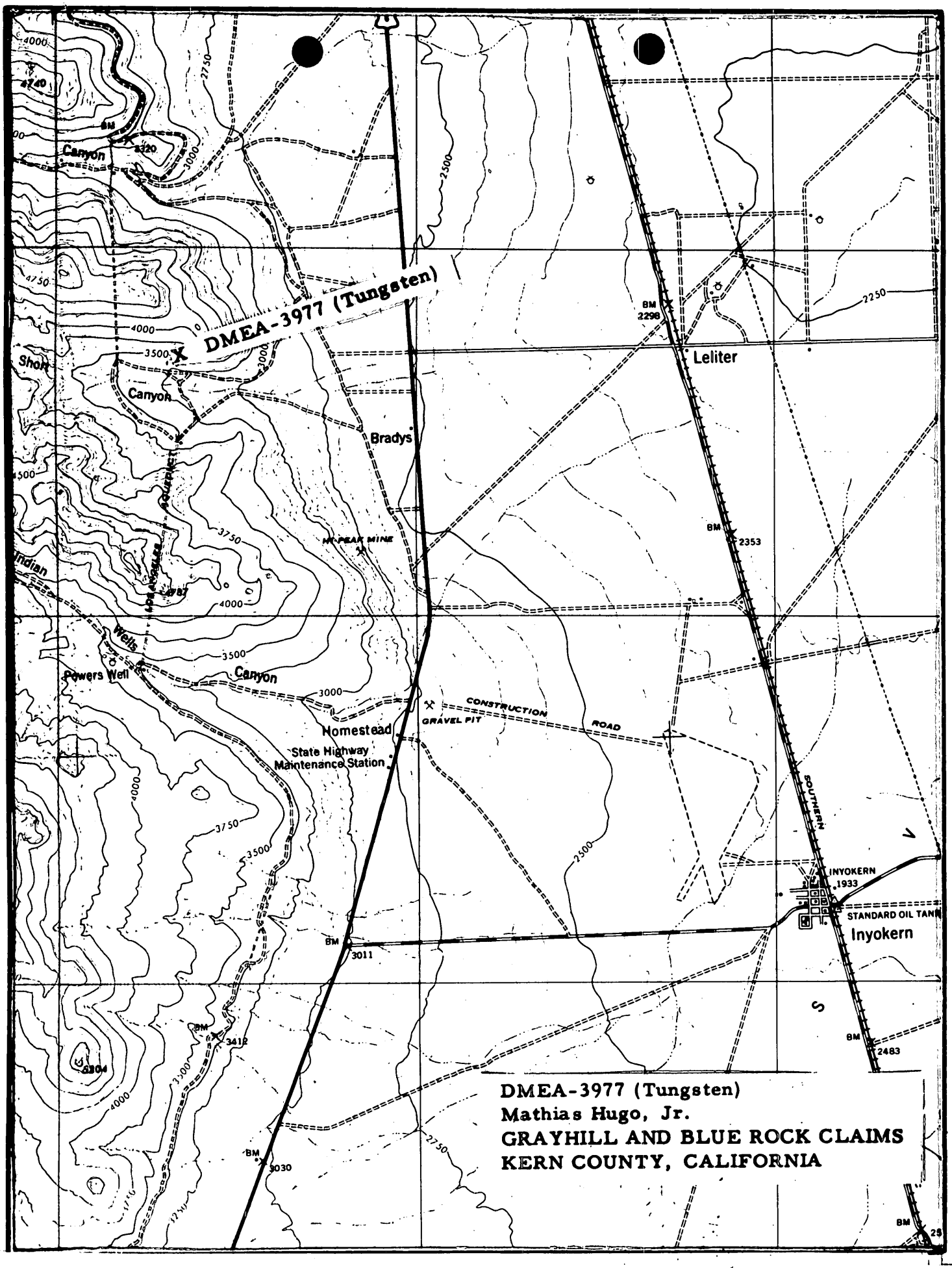

Fig. 1 LOCATION MAP CALIFORNIA

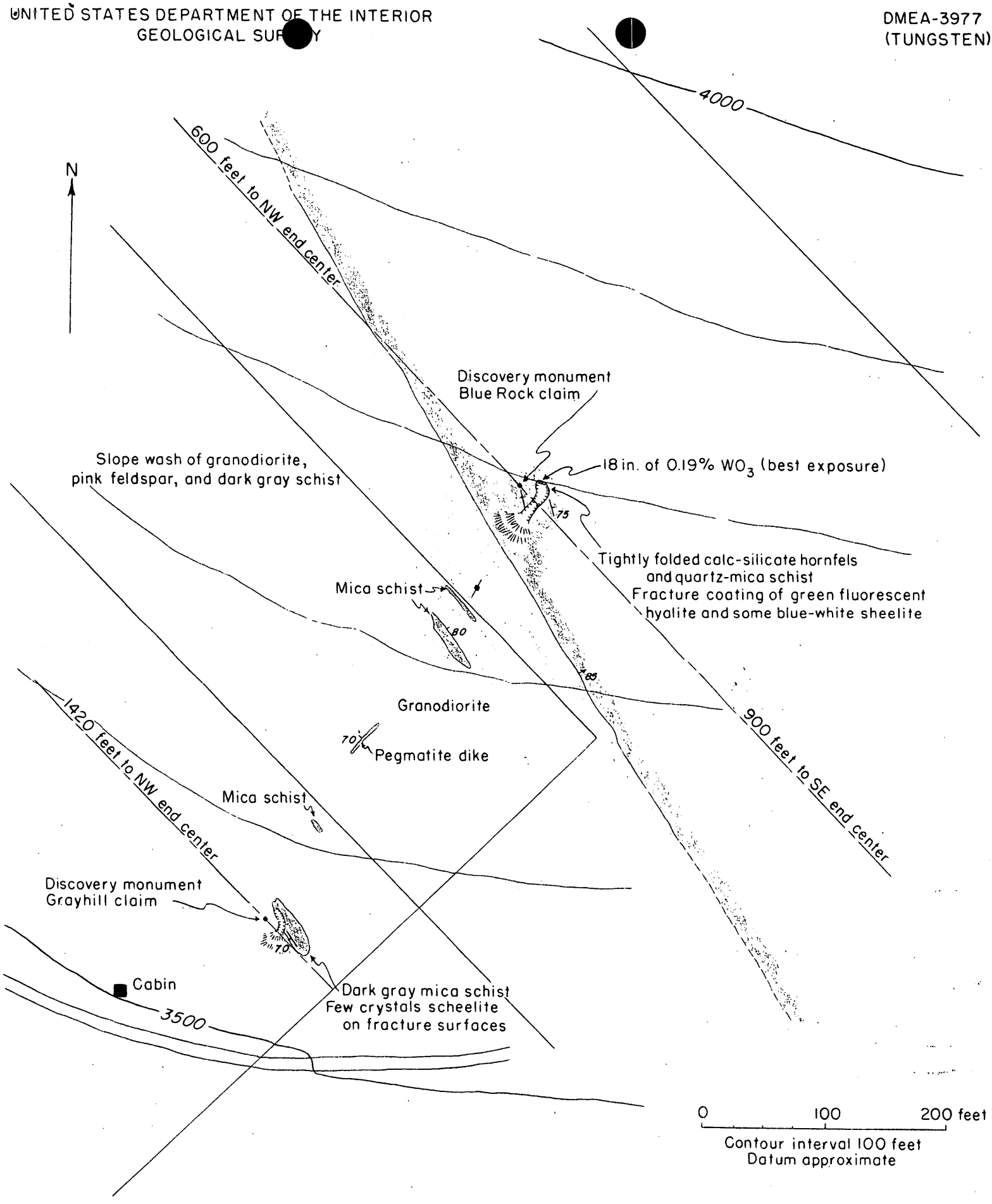

Figure 2. Geologic sketch map of part of the Grayhill and Blue Rock claims area, Kern County, California.

400

SEP 23 1955

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

400

Re: Docket No. 3977 - Tungsten
Mathias Hugo, Jr.
Grayhill and Blue Rock claims
Kern County, California

Dear Mr. Ricker:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Two copies each of relevant memoranda, one dated September 16, 1955, by Wilmer McInnis, Bureau of Mines, and the other dated September 19, 1955, by N. E. Nelson, Geological Survey, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

N. E. Nelson

Member, Geological Survey

cc: Docket
Adm. Read. File
Oper. Committee
Code 400
T. Kiilsgaard, USGS
W. McInnis, USBM
FT, Reg. 2

TLChapman/ls
9/22/55

LOCATION, ACCESSIBILITY, AND LOCAL RESOURCES

The claims are in Section 32, T. 25 S., R. 38 E., M.D.B.&M., Kern County, California, and are on the east slope of the Sierra Nevada on the north side of Short Canyon at an altitude of 3,400 feet.

To reach the property from Inyokern, California, the nearest town and source of supplies, travel 4.0 miles westerly to U. S. Highway 6; turn right and follow the highway 6.1 miles northerly, turn left and follow a good dirt road 2.2 miles westerly to the property. The total distance by road from Inyokern to the claims is 10.3 miles (Fig. 1).

The nearest source of water is at Brady Service Station 2.2 miles by road east of the property. Topography of the area is shown on Inyokern Quadrangle, Kern County, California.

HISTORY, PROPERTY AND OWNERSHIP

The Grayhill and Blue Rock claims were located by Robert D. Norton, Jackson F. Wright and Curtis H. Smith in December 1952. Location certificates are recorded in Book 2017, Page 486 and Book 2008, Page 203 at Bakersfield, California.

Mr. Mathias Hugo, Jr. obtained a quit claim deed on the unpatented claims from the locators. Assessment work was recorded for the fiscal year ending July 1, 1955. The applicant is a Certified Public Accountant and operates his own business at 313 China Lake Boulevard, Ridgecrest, California. He has had very little exploration experience, but is familiar with accounting and the financial phase of mining. He is financially able to provide his share of the costs.

minerals has been greatly increased forming a zone of hybrid rock or migmatite. Dikes of pegmatite and aplite cut the granodiorite and metamorphic rocks in the vicinity of the contact. Weathering of the granodiorite and pegmatite has resulted in a steep sandy slope containing abundant fragments of pink feldspar and white quartz.

TUNGSTEN DEPOSITS

The tungsten-bearing material occurs as sparsely disseminated crystals of scheelite in quartz-mica schist and as thin films of scheelite coating fracture surfaces in calc-silicate hornfels. The best exposure is in the discovery cut on the Blue Rock claim (see Fig. 2). A sample taken across a small lens of scheelite-bearing quartz-mica schist about 18 inches thick, 3 feet long, and 1 foot wide exposed in this cut assayed 0.19 percent WO_3. Other scheelite exposures on the claims were examined under ultraviolet light and judged to be too small and low grade to warrant sampling.

There has been no production of tungsten-bearing material from the Grayhill and Blue Rock claims.

ORE RESERVES

There are no reserves of ore grade tungsten-bearing material on the Grayhill or Blue Rock claims. By careful mining and sorting a few tons of material containing about 0.2 percent WO_3 could be produced.

PROPOSED EXPLORATION

The applicant proposes to explore the scheelite exposure on the Blue Rock claim by (1) building a road to the discovery cut near the center of the claim (see Fig. 2) and (2) driving a 75 foot crosscut adit into the hillside from the discovery cut. The Government's share of the total estimated cost of $2,000 would be $1,500.

The proposed program lacks a target and would explore, at a depth of less than 50 feet, beds of quartz-mica schist that are not mineralized at the surface. The scheelite-bearing material exposed at the surface is so low in grade and is so sparsely disseminated along the granodiorite-schist contact that underground exploration is unwarranted.

400

SEP 23 1955

Mr. Mathias Huge, Jr.
337 Helena Street, Box 322
Ridgecrest, California

Re: Docket No. DMEA-3977, Tungsten
Graybill and Blue Rock claims
Kern County, California

Dear Mr. Huge:

The above-docketed application for exploration assistance for tungsten ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. Spangler Ricker, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

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

Sincerely yours,

Frank E. Johnson

ACTING Administrator

CC: Docket
Code 400
Adm. Reading File
Oper. Committee
T. Kiilsgaard, USGS
W. McInnis, USBM
FT, Reg. 2

TLChapman/ls
9/22/55

IN REPLY REFER TO:

400

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

September 19, 1955

Re: DMEA 3977
Mathias Hugo, Jr.
Grayhill & Blue Rock Claims
Kern County, California
$2,000 - Tungsten

Memorandum

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

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

Subject: Review of Application.

I have no information on this property. The report by Byron W. Works, presumedly of the Wah Chang Corp., does little to bolster the application. No samples were taken by Works and it is not possible to relate the 2.1% WO_3 assay with the "best of the ore is 2 to 3 feet thick" statement of the report by Works.

Perhaps the field office has information on the property. A referral is indicated and so recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-9/19/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. Holliday, 3513

(Revised April 1952)

rec'd by B/Mines 4-62

UNITED STATES DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED SEP 14 1955

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

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

Not to be filled in by applicant

Docket No. DMEA 3977

Metal or Mineral Tungsten

Date Received 9/14/55

Estimated Cost $2,000.00

Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Mathias Hugo, Jr.
337 Helena St. Box 322
Ridgecrest, 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 I hold 2 mining claims on government land as described on attached sheet. Assessment work recorded up to July 1, 1955. Unpatented.

(*b*) State any mine name by which the property is known. Grayhill & Blue Rock Claims

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Own above claims, obtained quit claim deed from locators.

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

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

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

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

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

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

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

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

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

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

(*c*) The work will start within 60 days and be completed within 4 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated 9/7, 195[illegible]

(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

RECEIVED
SEP 1 1 1953

MATHIAS HUGO, JR.
CERTIFIED PUBLIC ACCOUNTANT
RIDGECREST, CALIFORNIA

PARAGRAPH 3.
(a)

Grayhill lode claim in Indian Wells Mining District 300' x 1500' lying in Northwesterly and Southeastery direction. The discovery monument is situated about 10,500 feet from U.S. Highway 6 in South East corner of Section 32, T 25 S, R 38 E, M.D.M. Claim is parallel to and bordered on Easterly side by Blue Rock Claim. On South by Booth #1 located December 20, 1952 by Jackson F. Wright, recorded in Book 2017, Page 486, Kern County

Blue Rock lode claim 300' x 1500' adjoins above described claim on its Easterly side. Located November 11, 1952 by Robert D. Norton, Jackson F. Wright and Curtis H. Smith. Recorded in Book 2008, Page 203, Kern County.

PARAGRAPH 4.
(a)

Blue Rock open cut and drift about 40' into side of hill at discovery point. Grayhill has about 30 feet of open cut and drift at discovery point. Tool shed about 8' x 10' is located on the claims. There is a road to within about 1000' of the workings. Claims are located on the Northwest side of Short Canyon about 8 miles airline from Inyokern, California. There is a good dirt road up the canyon and branches off this road to within about 1000 feet below my claims.

(b) No past or current production. Samples for assay have been packed out. Assay showed 2.1% Sheelite. Copy of assay report enclosed.

(c) Lime-granite contact, some epidote. See attached report of geologist from Wah Chang Corporation. Please return report. Due to values shown by the assay, I believe it worth while to explore to determine whether or not production is feasible.

(d) These claims are readily accessible from the towns of Inyokern, Ridgecrest and Randsburg. They are located about 2 miles from Highway 6. There is a good dirt road from Highway 6 to within about one quarter mile (airline) and a branch road passing through the lower end of the claims and within 1000 feet of the upper workings. It is estimated that 3/4 mile of bulldozer work is required to extend the branch road to the upper workings. Shipping by truck direct from the claims via Highway 6 could be made to the U. S. Vanadium custom mill about 140 miles, or to Randsburg about 35 miles. There is adequate residence and shopping facilities at Inyokern about 10 miles by road from the claims. There is also a railroad at Inyokern.

(e) There is adequate manpower, materials, supplies, equipment, water and power available in the vicinity for exploration and production.

PARAGRAPH 5
(b) Construction of approximately 3/4 mile of road through mainly decomposed granite from present branch road to main workings. Drive a drift or drifts approximately 75 feet into hill following vein.

(d) Applicant has had experience in the administrative and financial phase of tungsten mining through handling of accounts of mining companies. I have available the services of an experienced, capable mining man with 10 years background in copper and tungsten and other metal mining to contract and supervise the exploration work.

PARAGRAPH 6
(a) Independent contracts.

Bulldozer work - constructing road and space for dump.	40 Hours @ $12.50 per hour including driver	$500.00
Driving drift.	75 feet @ $20.00 per foot	1500.00
	Total	$2000.00

PARAGRAPH 6 (B) to (H) None

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

RECEIVED
SEP 14 1955

1605 Evans Avenue
Reno, Nevada

Dmea 3977

September 9, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Tungsten)
Mathias Hugo, Jr.,
Grayhill & Blue Rock Claims
Kern County, California

Attached are three sets of MF-103, Application for Aid forms relative to above subject. Also attached is a copy of assay report and a copy of a report dated April 4, 1955 by Byron W. Works. The fourth set has been retained in our files.

S. Ricker

Attach.

SRicker:gh
cc: File

Docket.

MATHIAS HUGO, JR.
CERTIFIED PUBLIC ACCOUNTANT

~~Times-Herald Building~~
~~RIDGECREST, CALIFORNIA~~
~~Phone 82721~~

Desert Development Company Bldg.
313 China Lake Boulevard
RIDGECREST, CALIFORNIA
Phone 8-4041

September 29, 1955

WSM

Administrator,
Defense Minerals Exploration Administration,
Washington, 25, D.C.

Gentlemen: Attention Mr. Frank E. Johnson

Re: Docket No. DMEA-3977, Tungsten Grayhill and Blue Rock claims Kern County, California, and your letter of September 23, 1955.

If the Field Team will let me know when they expect to make the examination I will be glad to accompany them to the claims and to assist them in any way I can.

Very truly yours,

Mathias Hugo, Jr.

Mathias Hugo, Jr.

CC: Mr. Spangler Ricker, Reno, Nev.

DOCKET
SURNAME
McMahon
Martin
Nelson
Geehan

NOV 25 1955

Mr. Mathias Hagn, Jr.
137 Malaga Street, Box 322
Ridgecrest, California

Re: Docket No. DMEA 3077 - Tungsten
Greyhill and Mine Rock claims
Kern County, California

Dear Mr. Hagn:

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

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

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

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

Sincerely yours,

Fred E. Johnson

ACTING Administrator

ADMcMahon/fcc
11-22-55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. II
Messrs. Holliday, USBM
Kiilsgaard, USGS

DOCKET
SURNAME

McMahon
Martin
Nelson

400

November 22, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $2,000.00
Docket No. DMEA 3977 - Tungsten
Mr. Mathias Mago, Jr.
Grayhill and Kline Rock claims
Kern County, California

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

(1) The applicant, Mr. Mathias Mago, Jr., 337 Malena Street, Ridgecrest, California requested exploration assistance in the amount of $2,000.00 for bulldozing and crosscutting.

(2) The applicant controls by ownership the unpatented/and Grayhill Kline Rock claims in sec. 32, T. 25S, R. 38 E., M.D.B.&M., Kern County, California. Ownership was acquired through a quit claim deed obtained from the locators Messrs. Robert D. Newton, Jackson F. Wright and Curtis H. Smith. Location certificates are recorded in Book 2017, Page 485 and Book 2088, Page 203 at Bakersfield, California. Assessment work was recorded for the fiscal year ending July 1, 1955.

(3) The proposed program is to explore the scheelite exposure on the Kline Rock claim by (1) building a road to the discovery cut near the center of the claim and (2) driving a 75 foot crosscut adit into the hillside from the discovery cut.

(4) The claims are developed by two shallow open-cut trenches totaling approximately 70 feet in length with an average width and depth of about five feet. A sample taken across a small lens of scheelite-bearing quartz-mica schist about 18 inches thick, 3 feet long and 1 feet wide assayed 0.19% WO_3; other scheelite exposures on the claims were examined under the ultraviolet light and judged too small and too low grade to warrant sampling.

The proposed program lacks a target and would explore, at a depth of less than 50 feet, beds of quartz-mica schists that are not mineralized at the surface.

(5) The Field Team concludes that the scheelite-bearing material exposed at the surface is so low in grade and so sparsely disseminated that further exploration is unwarranted and recommends denial. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

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

ADMcMahon/fec
11/22/55
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.

UNITED STATES
DEPARTMENT OF THE INTERIOR

400

DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

November 22, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance in the amount of $2,000.00
Docket No. DMEA 3977 - Tungsten
Mr. Mathias Hugo, Jr.
Grayhill and Blue Rock claims
Kern County, California

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

(1) The applicant, Mr. Mathias Hugo, Jr., 337 Helena Street, Ridgecrest, California requested exploration assistance in the amount of $2,000.00 for bulldozing and crosscutting.

(2) The applicant controls by ownership the unpatented Grayhill and Blue Rock claims in sec. 32, T. 25S, R. 38 E., M.D.B.&M., Kern County, California. Ownership was acquired through a quit claim deed obtained from the locators Messrs. Robert D. Norton, Jackson F. Wright and Curtis H. Smith. Location certificates are recorded in Book 2017, Page 486 and Book 2008, Page 203 at Bakersfield, California. Assessment work was recorded for the fiscal year ending July 1, 1955.

(3) The proposed program is to explore the scheelite exposure on the Blue Rock claim by (1) building a road to the discovery cut near the center of the claim and (2) driving a 75 foot crosscut adit into the hillside from the discovery cut.

(4) The claims are developed by two shallow open-cut trenches totaling approximately 70 feet in length with an average width and depth of about five feet. A sample taken across a small lens of scheelite-bearing quartz-mica schist about 18 inches thick, 3 feet long and 1 foot wide assayed 0.19% WO_3; other scheelite exposures on the claims were examined under the ultraviolet light and judged too small and too low grade to warrant sampling.

The proposed program lacks a target and would explore, at a depth of less than 50 feet, beds of quartz-mica schists that are not mineralized at the surface.

(5) The Field Team concludes that the scheelite-bearing material exposed at the surface is so low in grade and so sparsely disseminated that further exploration is unwarranted and recommends denial. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

W S Martin

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

Docket

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

November 21, 1955

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Subject: Docket No. DMEA 3977
Grayhill and Blue Rock Claims
Kern County, California
Mathias Hugo, Jr.
337 Helena Street
Ridgecrest, California
Application for exploration assistance
Field Team Report
$2,000.00-Tungsten

Examination by the field team indicates that the deposit is too small and too low in grade to warrant further exploration.

I concur with the field team recommendation that the application be denied.

R. W. Holliday

R. W. Holliday

November 21, 1955

Memorandum

To: Chief, Iron & Ferroalloys Division-DMEA
Through: Acting Chief, Branch of Ferrous Metals & Ferroalloys

From: Commodity Specialist-Tungsten

Subject: Docket No. DMEA 3977
Grayhill and Blue Rock Claims
Kern County, California
Mathias Hugo, Jr.
337 Helena Street
Ridgecrest, California
Application for exploration assistance
Field Team Report
$2,000.00-Tungsten

Examination by the field team indicates that the deposit is too small and too low in grade to warrant further exploration.

I concur with the field team recommendation that the application be denied.

R. W. Holliday

RWHolliday/tra

Copy to: Mr. Holliday
Files
Ferrous Metals

IN REPLY REFER TO:

Docket

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

November 17, 1955

Re: DMEA 3977
Mathias Hugo, Jr.
Grayhill and Blue Rock Claims
Kern County, California
$2,000 - Tungsten

Memorandum

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

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

Subject: Review of Field Team report.

The applicant requested assistance in exploring an indifferent exposure of scheelite-bearing material.

The conclusions of the examiners coincide with the somewhat veiled but unfavorable opinion of a representative of the Wah Chang Corporation.

I concur with the recommendations of the examiners and Field Team that the application be denied.

N. E. Nelson

N. E. Nelson

RECEIVED
NOV 18 1955

IN REPLY REFER TO:

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

November 17, 1955

Re: DMEA 3977
Mathias Hugo, Jr.
Greyhill and Blue Rock Claims
Kern County, California
$2,000 - Tungsten

Memorandum

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

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Subject: Review of Field Team report.

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I concur with the recommendations of the examiners and Field Team that the application be denied.

N. E. Nelson

N. E. Nelson

NENelson:jeh
11/17/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3) ✓
Docket file
R. Holliday, 3513

RECEIVED
NOV 18 1955

IN REPLY REFER TO:

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

November 17, 1955

Re: DMEA 3977
Mathias Hogg, Jr.
Graybill and Blue Rock Claims
Kern County, California
$2,000 - Tungsten

Memorandum

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

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

Subject: Review of Field Team report.

The applicant requested assistance in exploring an indifferent exposure of scheelite-bearing material.

The conclusions of the examiners coincide with the somewhat veiled but unfavorable opinion of a representative of the Wah Chang Corporation.

I concur with the recommendations of the examiners and Field Team that the application be denied.

N. E. Nelson

N. E. Nelson

NENelson:jeh
11/17/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3) ✓
Docket file
R. Holliday, 3513

RECEIVED
NOV 18 1955

DMEA

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

November 7, 1955

1605 Evans Avenue
Reno, Nevada

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3977 (Tungsten)
Mathias Hugo, Jr.,
Grayhill and Blue Rock Claims
Kern County, California

Reference is made to your letter of September 23, 1955 in which was requested a field examination of subject property.

Attached are four copies of a report by B. H. Sheahan, Bureau of Mines and H. K. Stager, Geological Survey recommending a denial of application for exploration aid.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
11/16/55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 3977 (Tungsten)
Grayhill and Blue Rock Claims
Mathias Hugo, Jr.
Kern County, California

by

B. H. Sheahan
Mining Engineer
U. S. Bureau of Mines

H. K. Stager
Geologist
U. S. Geological Survey

November 3, 1955

Reviewed by
DMEA OPERATING COMMITTEE
11/16/55
(date)

CONTENTS

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Location, Accessibility and Local Resources	2
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Development	3
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Tungsten Deposits	4
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Proposed Exploration	5

ILLUSTRATIONS

Fig. 1 . . . . . Location Map

Fig. 2 . . . . . Geologic Map

INTRODUCTION

Mr. Mathias Hugo, Jr., 337 Helena Street, Ridgecrest, California, applied for Government assistance in a $2,000 program under the Defense Minerals Exploration Administration, docket DMEA-3977, to explore for tungsten on the Grayhill and Blue Rock claims, Kern County, California.

A field examination was requested by the Operating Committee and was made by B. H. Sheahan, U. S. Bureau of Mines, and H. K. Stager, U. S. Geological Survey, on October 13, 1955, accompanied by the applicant.

As no maps or assays were available, the examiners mapped and sampled the surface exposures.

CONCLUSIONS AND RECOMMENDATIONS

The Grayhill and Blue Rock claims contain a small low grade tungsten deposit. The results of the examination indicate that this deposit is too small and too low in grade to warrant further exploration.

The applicant proposed to (1) build a road from the Grayhill claim to the more favorable tungsten-bearing exposures on the Blue Rock claim and (2) explore for tungsten ore bodies by a 75 foot adit on the Blue Rock claim. The Government's share of the estimated cost of $2,000 would be $1,500.

It is recommended that Government assistance under the DMEA program be denied.

LOCATION, ACCESSIBILITY, AND LOCAL RESOURCES

The claims are in Section 32, T. 25 S., R. 38 E., M.D.B.&M., Kern County, California, and are on the east slope of the Sierra Nevada on the north side of Short Canyon at an altitude of 3,400 feet.

To reach the property from Inyokern, California, the nearest town and source of supplies, travel 4.0 miles westerly to U. S. Highway 6; turn right and follow the highway 6.1 miles northerly, turn left and follow a good dirt road 2.2 miles westerly to the property. The total distance by road from Inyokern to the claims is 10.3 miles (Fig. 1).

The nearest source of water is at Brady Service Station 2.2 miles by road east of the property. Topography of the area is shown on Inyokern Quadrangle, Kern County, California.

HISTORY, PROPERTY AND OWNERSHIP

The Grayhill and Blue Rock claims were located by Robert D. Norton, Jackson F. Wright and Curtis H. Smith in December 1952. Location certificates are recorded in Book 2017, Page 486 and Book 2008, Page 203 at Bakersfield, California.

Mr. Mathias Hugo, Jr. obtained a quit claim deed on the unpatented claims from the locators. Assessment work was recorded for the fiscal year ending July 1, 1955. The applicant is a Certified Public Accountant and operates his own business at 313 China Lake Boulevard, Ridgecrest, California. He has had very little exploration experience, but is familiar with accounting and the financial phase of mining. He is financially able to provide his share of the costs.

DEVELOPMENT

The claims are developed by two shallow open cut trenches. Total footage amounts to less than 70 feet and the average width and depth of these trenches is about five feet. There has been very little work done on the property since about 1952 judging from the appearance of the open cuts. There are no tools or equipment on the property. One small tool shed indicated on the attached sketch (Fig. 2) was the only surface improvement.

GENERAL GEOLOGY

The Grayhill and Blue Rock claims are in an area of moderate relief in the eastern foothills of the Sierra Nevada and the surface is almost completely covered with slope wash. The rocks exposed in the claim area are chiefly schist and hornfels of undetermined age. These rocks are part of a north trending belt of metamorphic rocks bounded on the west by granitic rocks of the Sierra Nevada batholith and on the east by alluvium of the Owens Valley. The metamorphic rocks are tightly folded and intruded by numerous pegamatite and aplite dikes along the granitic contact.

The principal metamorphic rock is a dark blue-gray, fine grained, quartz-mica schist. This schist composes the major part of the belt of metamorphic rocks and also occurs as inclusions and small roof pendants in the granitic rock. The strike of the bedding in the schist and also the trend of the inclusions and roof pendants is north to northwest and the dip is from 70° SW to 75° NE. Interbedded with the schist are thin beds of light-gray-green calc-silicate hornfels.

The granitic rock is a light gray-medium-grained granodiorite. Near the contact with the metamorphic rocks the percentage of dark

minerals has been greatly increased forming a zone of hybrid rock or migmatite. Dikes of pegmatite and aplite cut the granodiorite and metamorphic rocks in the vicinity of the contact. Weathering of the granodiorite and pegmatite has resulted in a steep sandy slope containing abundant fragments of pink feldspar and white quartz.

TUNGSTEN DEPOSITS

The tungsten-bearing material occurs as sparsely disseminated crystals of scheelite in quartz-mica schist and as thin films of scheelite coating fracture surfaces in calc-silicate hornfels. The best exposure is in the discovery cut on the Blue Rock claim (see Fig. 2). A sample taken across a small lens of scheelite-bearing quartz-mica schist about 18 inches thick, 3 feet long, and 1 foot wide exposed in this cut assayed 0.19 percent WO_3. Other scheelite exposures on the claims were examined under ultraviolet light and judged to be too small and low grade to warrant sampling.

There has been no production of tungsten-bearing material from the Grayhill and Blue Rock claims.

ORE RESERVES

There are no reserves of ore grade tungsten-bearing material on the Grayhill or Blue Rock claims. By careful mining and sorting a few tons of material containing about 0.2 percent WO_3 could be produced.

PROPOSED EXPLORATION

The applicant proposes to explore the scheelite exposure on the Blue Rock claim by (1) building a road to the discovery cut near the center of the claim (see Fig. 2) and (2) driving a 75 foot crosscut adit into the hillside from the discovery cut. The Government's share of the total estimated cost of $2,000 would be $1,500.

The proposed program lacks a target and would explore, at a depth of less than 50 feet, beds of quartz-mica schist that are not mineralized at the surface. The scheelite-bearing material exposed at the surface is so low in grade and is so sparsely disseminated along the granodiorite-schist contact that underground exploration is unwarranted.

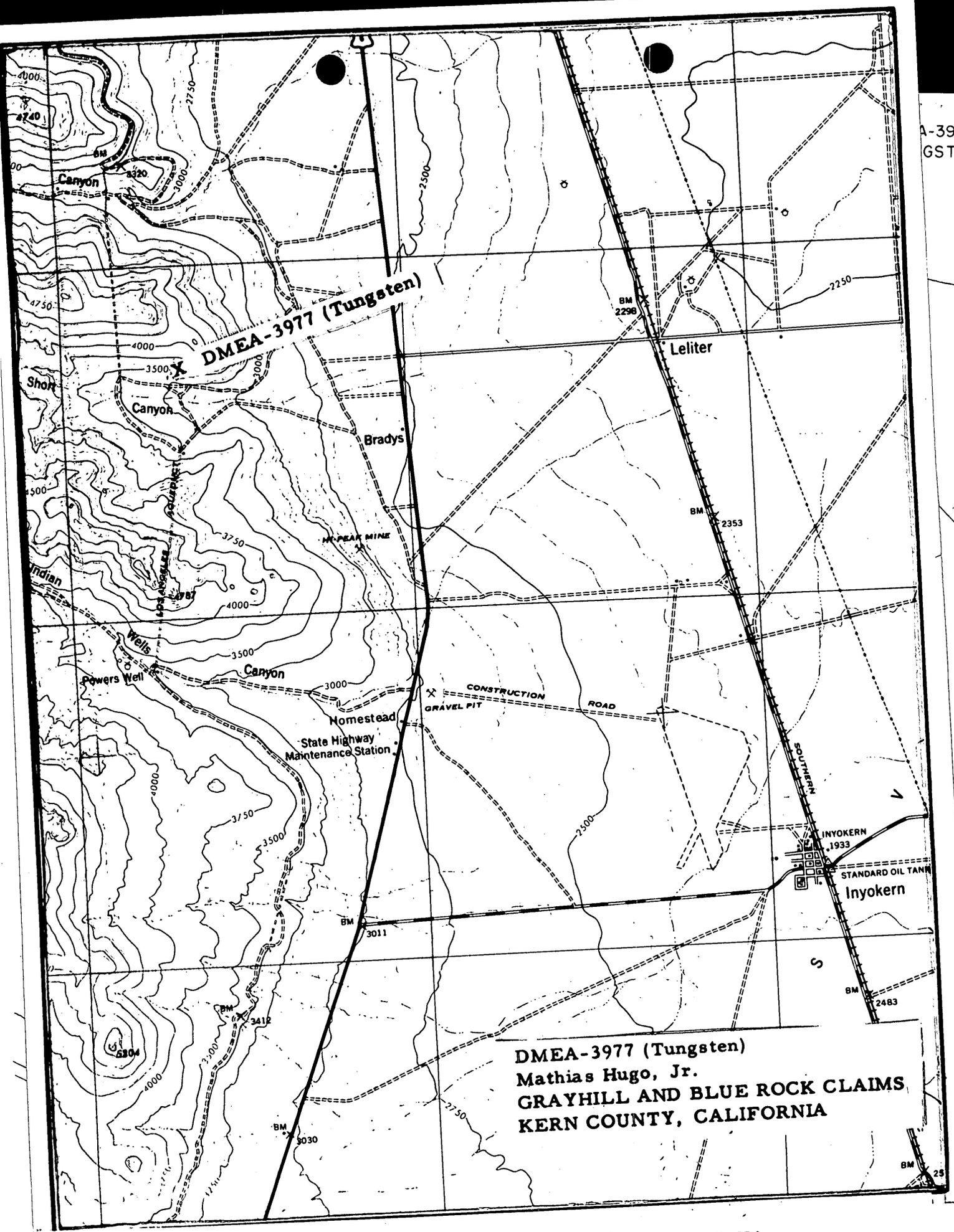


Fig. 1 LOCATION MAP CALIFORNIA

Figure 2. Geologic sketch map of part of the Grayhill and Blue Rock claims area, Kern County, California.

400

DOCKET
Surname.
Chapman
Martin
Geehan
Nelson
Selfridge

SEP 23 1955

Mr. Mathias Hugo, Jr.
337 Helena Street, Box 322
Ridgecrest, California

Re: Docket No. DMEA-3977, Tungsten
Grayhill and Blue Rock claims
Kern County, California

Dear Mr. Hugo:

The above-docketed application for exploration assistance for tungsten ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. Spangler Ricker, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

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

Sincerely yours,

Frank E. Johnson

ACTING Administrator

CC: Docket
Code 400
Adm. Reading File
Oper. Committee
T. Kiilsgaard, USGS
W. McInnis, USBM
FT, Reg. 2

TLChapman/ls
9/22/55

400

DOCKET
Surname:
Chapman
Martin
Selfridge
Fitzhugh

SEP 23 1955

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

Re: Docket No. 3977 - Tungsten
Mathias Hugo, Jr.
Grayhill and Blue Rock claims
Kern County, California

Dear Mr. Ricker:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Two copies each of relevant memoranda, one dated September 16, 1955, by Wilmer McInnis, Bureau of Mines, and the other dated September 19, 1955, by N. E. Nelson, Geological Survey, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

/s/ Robert W. Geehan (JHB)

Member, Bureau of Mines

N. E. Nelson (JHB)

Member, Geological Survey

cc: Docket
Adm. Read. File
Oper. Committee
Code 400
T. Kiilsgaard, USGS
W. McInnis, USBM
FT, Reg. 2

TLChapman/ls
9/22/55

Docket

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

RECEIVED
SEP 1 9 1955

September 16, 1955

WSM

Memorandum

To: Chief, Iron and Ferroalloys Division - DMEA
Through: Chief, Branch of Ferrous Metals & Ferroalloys NWD.

From: Commodity Specialist

Subject: Docket No. DMEA 3977 - Tungsten
Grayhill and Blue Rock Claims
Application for Exploration Assistance $2,000

It is recommended that a field team examination be made.

Wilmer McInnis

Wilmer McInnis

IN REPLY REFER TO:

Docket

RECEIVED

SEP 2 1 1955

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

September 19, 1955

Re: DMEA 3977
Mathias Hugo, Jr.
Grayhill & Blue Rock Claims
Kern County, California
$2,000 - Tungsten

Stamp returned 400

WSM

Memorandum

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

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

Subject: Review of Application.

I have no information on this property. The report by Byron W. Works, presumedly of the Wah Chang Corp., does little to bolster the application. No samples were taken by Works and it is not possible to relate the 2.1% WO_3 assay with the "best of the ore is 2 to 3 feet thick" statement of the report by Works.

Perhaps the field office has information on the property. A referral is indicated and so recommended.

N. E. Nelson

N. E. Nelson

September 14, 1955

Subject: DMEA 3977
Re: Exploration Assistance
Grayhill & Blue Rock Claims

Mr. Mathias Hugo, Jr.
337 Helena St, Box 322
Ridgecrest, California

Dear Mr. Hugo:

The receipt of your application dated September 7, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3977 and referred to the Iron & Ferro Alloys Division

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

September 14, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region II.

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA - 3977 Mathias Hugo, Jr.

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

R 3 Ea

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

RECEIVED
SEP 14 1955

1605 Evans Avenue
Reno, Nevada

September 9, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Tungsten)
Mathias Hugo, Jr.,
Grayhill & Blue Rock Claims
Kern County, California

Attached are three sets of MF-103, Application for Aid forms relative to above subject. Also attached is a copy of assay report and a copy of a report dated April 4, 1955 by Byron W. Works. The fourth set has been retained in our files.

S. Ricker

Attach.

BUREAU OF MINES
WASHINGTON, D. C.

SEP 14 9 15 AM '55

(Revised Ap 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau 42-R1035.2.

RECEIVED
SEP 14 1955

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-3977
Metal or Mineral Tungsten
Date Received ~~9/9/55~~ 9-14-55
Estimated Cost $2,000.
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:

Mathias Hugo, Jr.
337 Helena St. Box 322
Ridgecrest, 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 I hold 2 mining claims on government land as described on attached sheet. Assessment work recorded up to July 1, 1955. Unpatented.

(*b*) State any mine name by which the property is known. Grayhill & Blue Rock Claims

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
Own above claims, obtained quit claim deed from locators.

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

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

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

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

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

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

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

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

5. *The exploration project.*—(*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.

(*c*) The work will start within 60 days and be completed within 4 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated 9/7, 195[illegible]

(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

FORM MF-103

MATHIAS HUGO, JR.
CERTIFIED PUBLIC ACCOUNTANT
RIDGECREST, CALIFORNIA

RECEIVED
SEP 14 1955

PARAGRAPH 3.
(a)

Grayhill lode claim in Indian Wells Mining District 300' x 1500' lying in Northwesterly and Southeastery direction. The discovery monument is situated about 10,500 feet from U.S. Highway 6 in South East corner of Section 32, T 25 S, R 38 E, M.D.M. Claim is parallel to and bordered on Easterly side by Blue Rock Claim. On South by Booth #1 located December 20, 1952 by Jackson F. Wright, recorded in Book 2017, Page 486, Kern County

Blue Rock lode claim 300' x 1500' adjoins above described claim on its Easterly side. Located November 11, 1952 by Robert D. Norton, Jackson F. Wright and Curtis H. Smith. Recorded in Book 2008, Page 203, Kern County.

PARAGRAPH 4.
(a)

Blue Rock open cut and drift about 40' into side of hill at discovery point. Grayhill has about 30 feet of open cut and drift at discovery point. Tool shed about 8' x 10' is located on the claims. There is a road to within about 1000' of the workings. Claims are located on the Northwest side of Short Canyon about 8 miles airline from Inyokern, California. There is a good dirt road up the canyon and branches off this road to within about 1000 feet below my claims.

(b) No past or current production. Samples for assay have been packed out. Assay showed 2.1% Sheelite. Copy of assay report enclosed.

(c) Lime-granite contact, some epidote. See attached report of geologist from Wah Chang Corporation. Please return report. Due to values shown by the assay, I believe it worth while to explore to determine whether or not production is feasible.

(d) These claims are readily accessible from the towns of Inyokern, Ridgecrest and Randsburg. They are located about 2 miles from Highway 6. There is a good dirt road from Highway 6 to within about one quarter mile (airline) and a branch road passing through the lower end of the claims and within 1000 feet of the upper workings. It is estimated that 3/4 mile of bulldozer work is required to extend the branch road to the upper workings. Shipping by truck direct from the claims via Highway 6 could be made to the U. S. Vanadium custom mill about 140 miles, or to Randsburg about 35 miles. There is adequate residence and shopping facilities at Inyokern about 10 miles by road from the claims. There is also a railroad at Inyokern.

(e) There is adequate manpower, materials, supplies, equipment, water and power available in the vicinity for exploration and production.

PARAGRAPH 5
(b) Construction of approximately 3/4 mile of road through mainly decomposed granite from present branch road to main workings. Drive a drift or drifts approximately 75 feet into hill following vein.

(d) Applicant has had experience in the administrative and financial phase of tungsten mining through handling of accounts of mining companies. I have available the services of an experienced, capable mining man with 10 years background in copper and tungsten and other metal mining to contract and supervise the exploration work.

PARAGRAPH 6
(a) Independent contracts.

Bulldozer work - constructing road and space for dump.	40 Hours @ $12.50 per hour including driver	$500.00
Driving drift.	75 feet @ $20.00 per foot	1500.00
	Total	$2000.00

PARAGRAPH 6 (B) to (H) None

3411 FORM 1

COPY

LABORATORY REPORT

SMITH-EMERY COMPANY

ESTABLISHED 1910

CHEMISTS - ENGINEERS

781 EAST WASHINGTON BOULEVARD

LOS ANGELES 21, CALIFORNIA

RECEIVED

SEP 14 1955

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AUTHORIZATION FOR PUBLICATION OF OUR REPORTS, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

LABORATORY No. 393406 *Date* December 3, 1954

Sample Ore

Received 11/30/54 *Marked*

Submitted by M. Hugo,
Box 416,
Ridgecrest, California.

REPORT OF DETERMINATION

Tungsten trioxide (WO_3) ------- 2.10%

Respectfully submitted,

SMITH-EMERY CO.

CHEMISTS AND ENGINEERS

REPORT OF INVESTIGATION

Gray Hill and Blue Rock Claims
Near Inyokern, California

April 4, 1955

RECEIVED
SEP 14 1955

Summary

Ore is present in the northernmost cut which has cross-cut about 8 feet of metamorphics. The best of the ore is 2 to 3 feet thick and is confined to a zone which contains epidote and quartz. The silicated limestone on either side of this zone contains a smaller amount of scheelite which is found, for the large part, on the fracture planes.

Much of the float covering the hillside was lamped but no scheelite could be seen except directly below the open cut described above. It is inferred from this that there is no large amount of ore to be found unless it is at some depth.

Location

The claims are in the Indian Wells mining district, Kern county, California. The property is 2.3 miles by road west of Brady's motel, cafe, and service station which is on U. S. Highway 6 about 8 miles westerly from Inyokern, California.

The Los Angeles aqueduct crosses Short Canyon approximately 0.3 mile west of the property.

History

The property was located in November, 1952 by a Mr. Wright who is stationed at the China Lake Naval Base. The property was bought by Mathias Hugo, Jr. who is a certified public accountant and who is presently living at 311 China Lake boulevard, Ridgecrest, California.

Little more than the necessary discovery work has been done.

There is an operating scheelite mine about one mile southeasterly from the property, but I do not know any pertinent details about it.

Description

A good dirt road follows up Short Canyon to the lower and southern part of the property. There are no steep grades to be traversed.

Two small cuts, one on each of the claims, are present. The smaller, and southernmost, of the cuts is approximately 100 feet north of the access road; the other is approximately 600 feet north of the same road.

The hill on which the claims are located has an average slope of plus 31 degrees toward the north.

Geology

The prospect is in an old range of mountains, probably the Alabamas, which trend in a northerly direction. The Sierras are several miles toward the west.

Granodiorite has intruded dark limestone, and numerous granodiorite sills are present in the steeply easterly-dipping beds. Several pegmatitic dikes have cut the limestone and granodiorite. These dikes are composed of feldspar, quartz, and a small amount of muscovite.

The hill is covered with float from the granodiorite, limestone, and pegmatite dikes. The outcrops are present near the top of the hill.

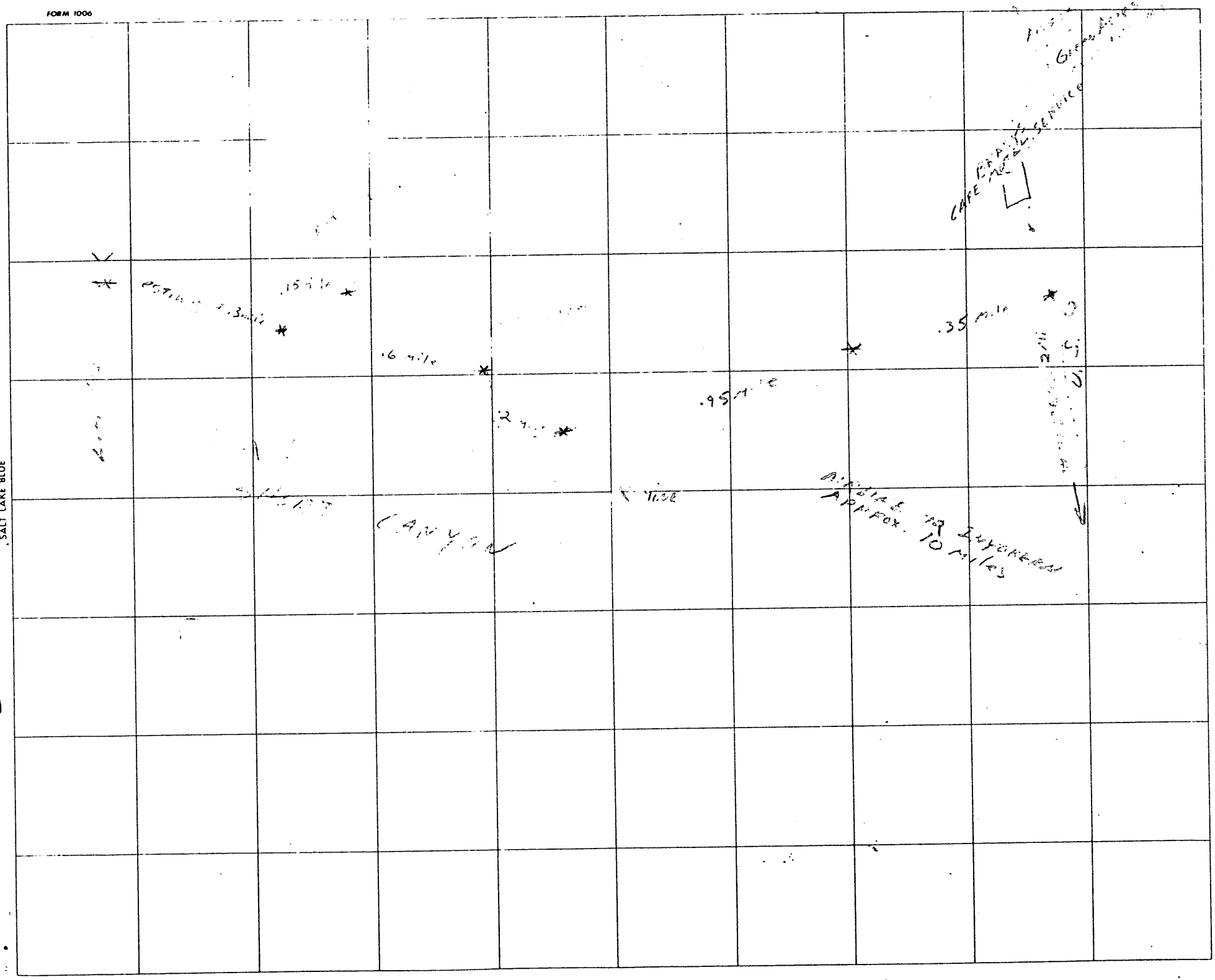
The scheelite occurs in a contact metamorphic zone bordering part of the granodiorite. The most common associated minerals are epidote and quartz.

Respectfully submitted,

Byron W. Works

FORM 1006

SALT LAKE BLUE



FORM 1006

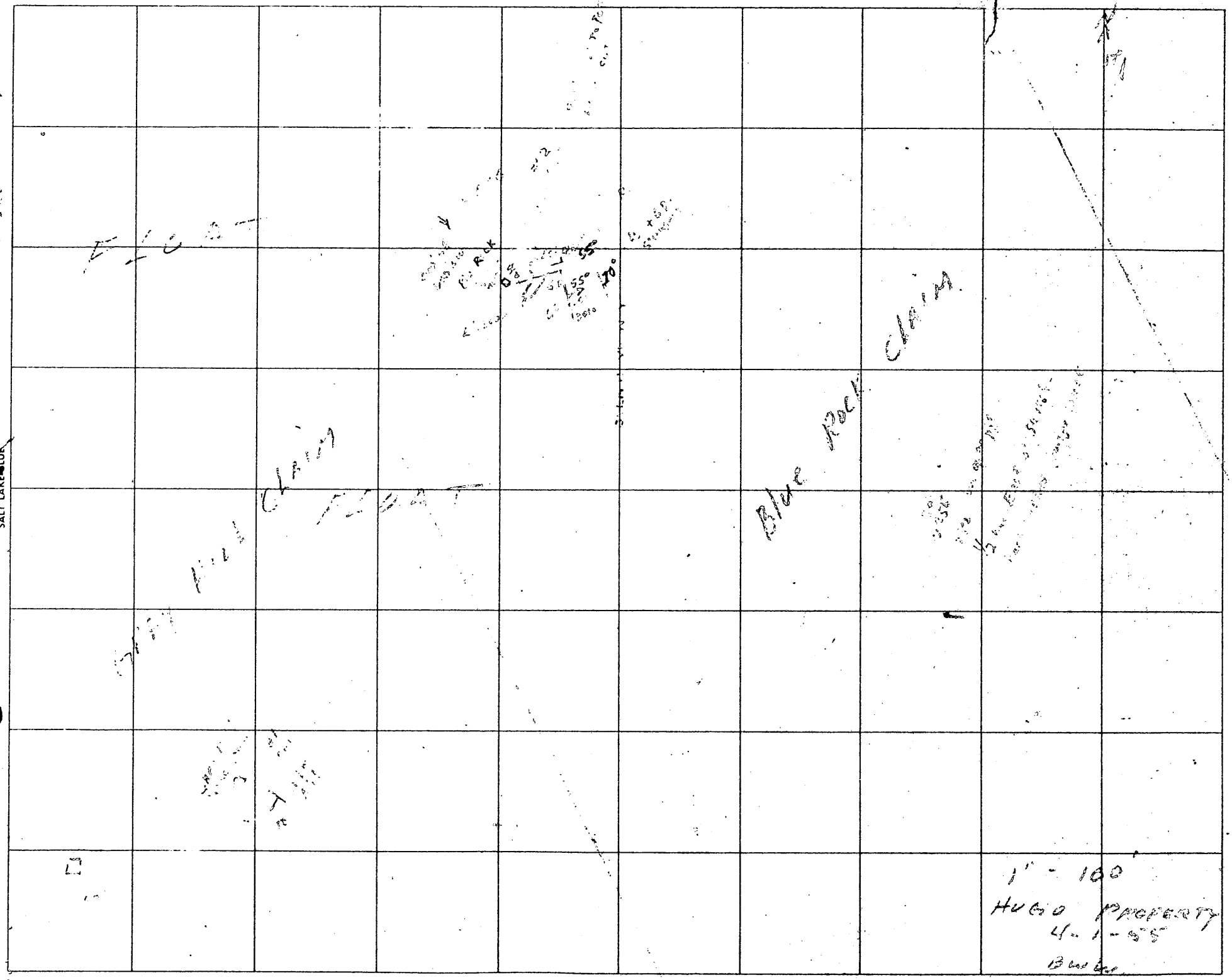
SALT LAKE BLUE

N

TO BRADY'S
2.2 miles

Aura Property
4-1-95 Bruce

FORM 1006



SALT LAKE CITY

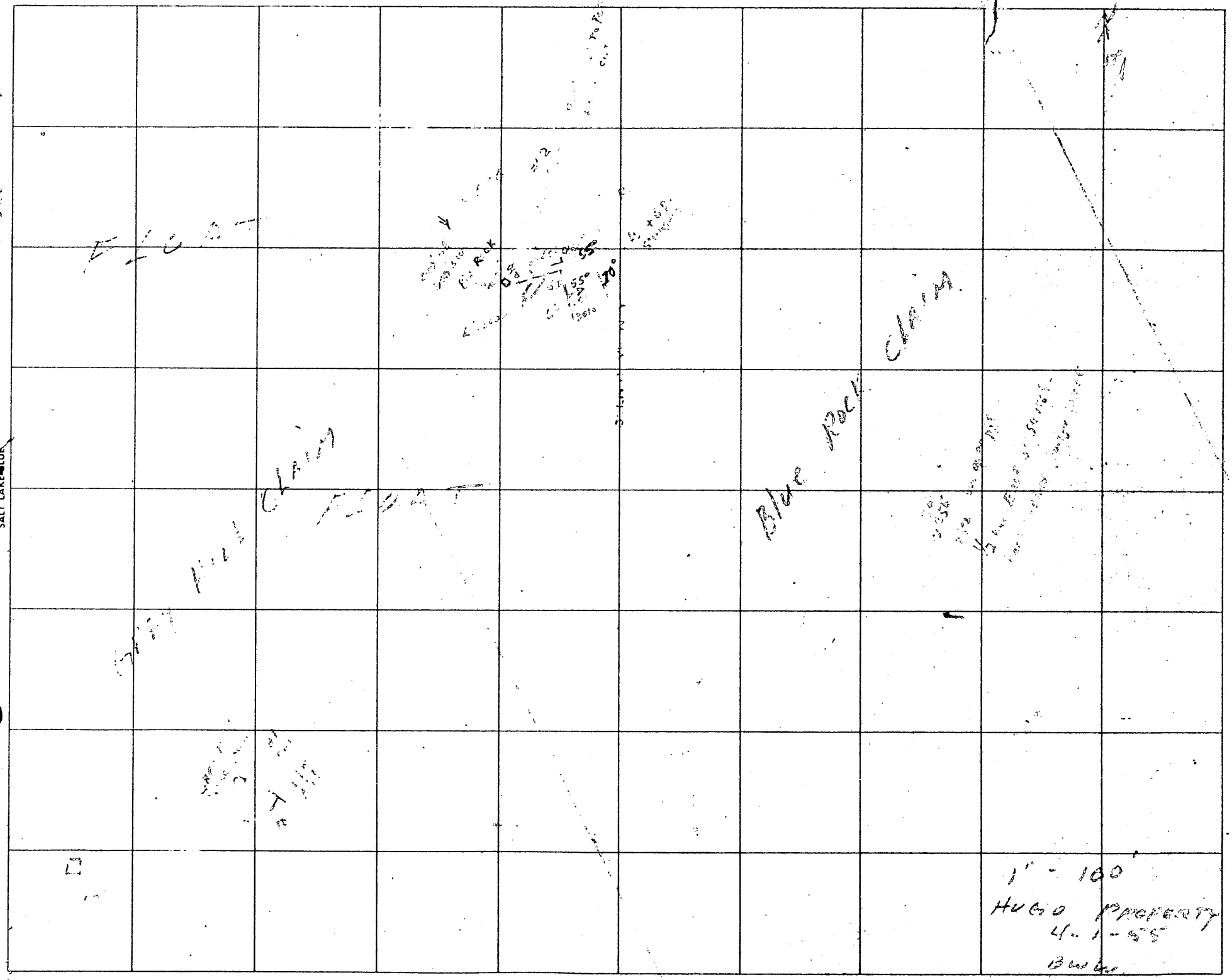
SALT LAKE BLUE

FORM 1006

To Brady's
2.2 miles

Area photographed
4-1-55 R. Burns

FORM 1006



SALT LAKE CITY

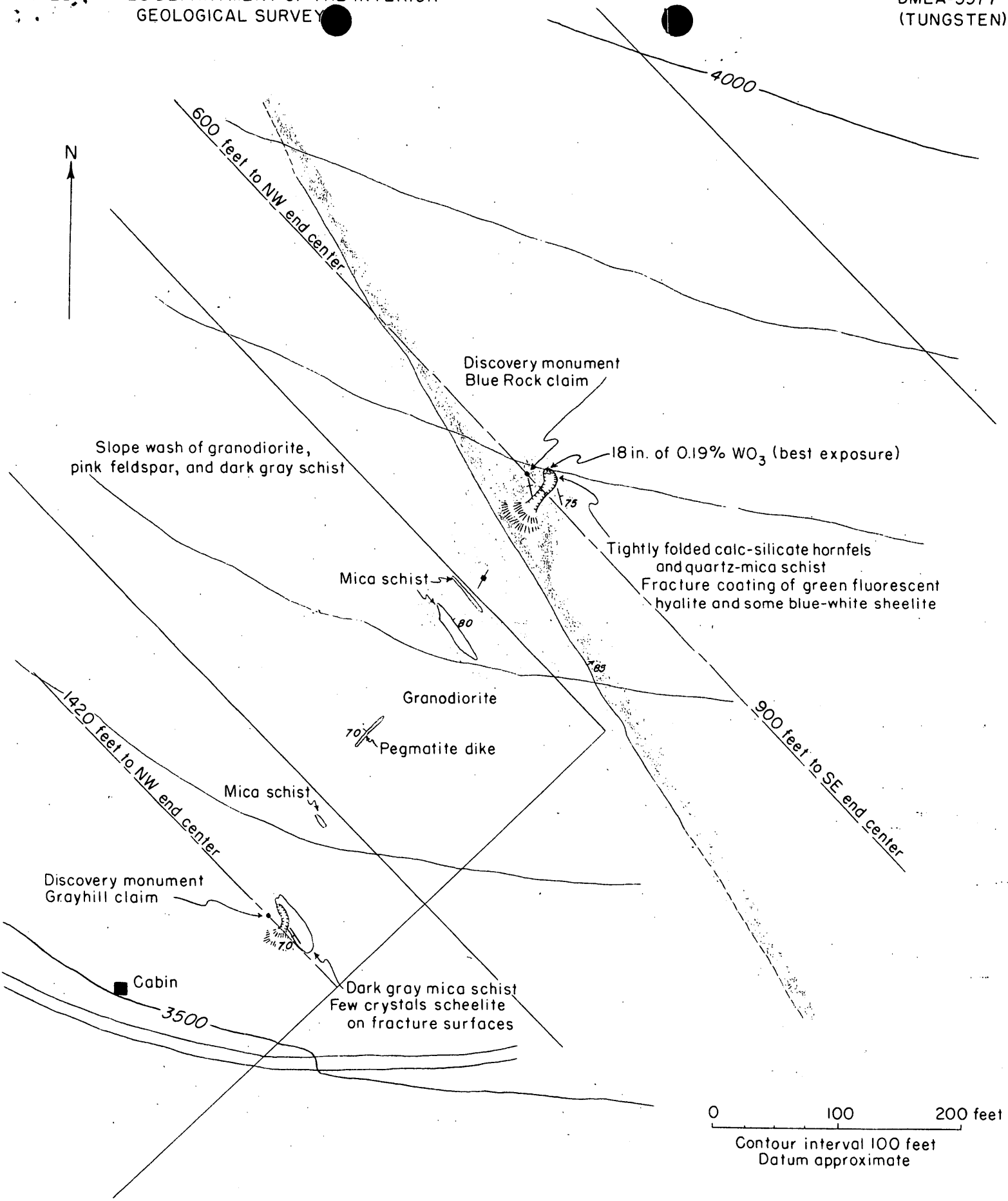
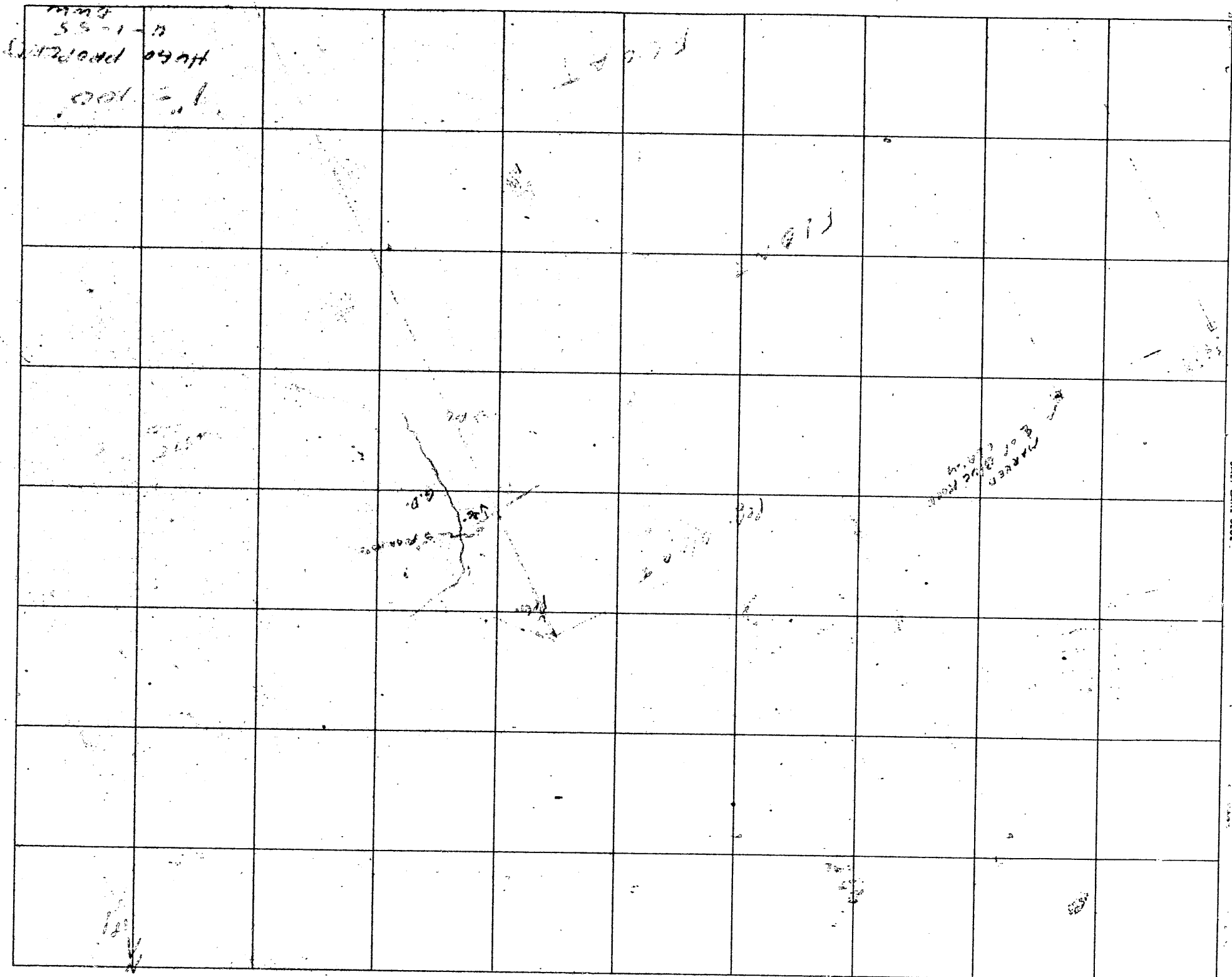


Figure 2. Geologic sketch map of part of the Grayhill and Blue Rock claims area, Kern County, California.



SALT LAKE BLUE

FORM 1006