DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4859

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

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

Right Side

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

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

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

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

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

1605 Evans Avenue
Reno, Nevada

October 22, 1957

DMEA
RECEIVED OCT 28
DATE | INITIALS

Memorandum

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

From: Acting Executive Officer, DMEA Field Team,
Region II

Subject: Loan Application (Rare Earths, Uranium, and Thorium)
Rolland M. Marshall
Placer Claim Deposits
San Bernardino County, Calif.

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

for Roscoe M. Smith
Acting Executive Officer
DMEA Field Team, Region II

Enclosures

MF-103
(Revised April 1952)

RECEIVED
OCT 28 1957
D.M.E.A.

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-4859
Metal or Mineral Rare Earths, Uranium & Thorium
Date Received 10/28/57
Estimated Cost $22,596.00
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: ROLLAND M. MARSHALL
~~8446 KITTYHAWK AVENUE~~
LOS ANGELES 45, CALIFORNIA
5636 West 78th Street

PARTNER:
WILLIAM E. SCHMIDT
BOX 611
YUCCA VALLEY, 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

See attached sheet

(*b*) State any mine name by which the property is known. NONE

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

PARTNER TO LEGAL OWNER OF LAND

(*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. ATTACHED

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

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

See 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 See Attached sheet

(*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 THIRTY days and be completed within SIX 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?

[XX] 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 SEP 27 57, 195__

Rolland M. Marshall
(Applicant)

By

Subscribed and sworn to before me this 27 day of Sept, 1957
Anne M Caverly
NOTARY PUBLIC in and for the County of Los Angeles, State of California
My Commission Expires Oct 26, 1961

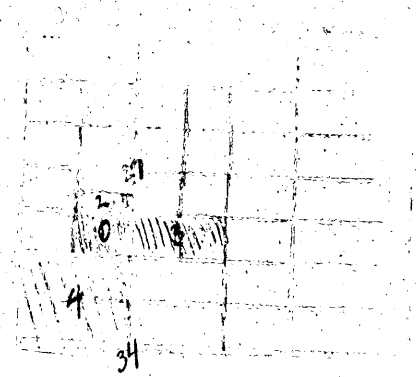
Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

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

7393

R.M. Marshall
8446 Kittyhawk Ave.
L.A. 45, California

Attachment to Form MF-103



Instruction 3

(a) Legal Description of Property:

1 The SE $\frac{1}{4}$ of SW $\frac{1}{4}$ Section 27 and
2 The S $\frac{1}{2}$ of NE $\frac{1}{4}$ of SW $\frac{1}{4}$ Section 27 and
3 The S $\frac{1}{2}$ of SE $\frac{1}{4}$ Section 27 and
4 The NW $\frac{1}{4}$ of Section 34

All being T2N, R3E, SBB&M ? JMM

Held by William E. Schmidt, et al, under Placer Claim Deposits continuously since 1949. All assessment work recorded in San Bernardino County, California

(f) Book and Page Numbers for each recorded location notice:

Name	Book	Page
Key	327	268
Cougar	309	284
Polaris	296	140
Weaver	309	289
Supplement	327	270

300 acres? JMM

placer claims = 20 acres

Instruction 4

(a) The Exploration activity to present time consists of:

Locating radioactive anomalies
Sinking a twenty ft. shaft on vein of Zenotime
Sampling vein and placer material
Core Drilling three locations to intercept vein

No production facilities are in use at the present time.

My interest in this exploration has been an active one, and I have directed and participated in all phases of the operations thus far.

The property is adjacent to well established roads and the area is easily accessible by all types of vehicle.

(b) No production has been accomplished to this date.

R.M. Marshall
8446 Kittyhawk Ave.
L.A. 45, California

Attachment to Form MF-103

Instruction 4 (continued)

(c) The Project is located in a well mineralized area. (Gold, Lead, Silver, Tungsten) The strike of the outcropping is in a NSE direction with the vein dipping at 51 degrees. It is embedded in stratified Gneiss and Biotite Schist, lying between massive granite and limestone formations.

My reason for wishing to continue exploration is due mainly to assay reports on vein and placer material from this area. Also, in the opinion of Mr. Claude Jones, Superintendent of the National Telluride Corporation, who, after examination, maintains that this geology favors sizeable deposits of Rare Earth, Thorium, and Uranium minerals. There have been numerous discovery reports of Uranium and Thorium minerals in the area, and AEC Aerial Survey shows this to be a high anomaly section.

Mr. H. Bailey of Molybdenum Corporation of America of Mt. Pass Bastnaesite deposit, who examined samples for me claims this type of mineral combination is easily concentrated and would be inexpensive to concentrate.

(d) Accessibility of the project is good, with well-travelled roads in the immediate vicinity which cross the strike of the vein in two places.

The project lies adjacent to a road known as the Rattlesnake Canyon Road, which is between Yucca Valley to the South and Big Bear City in a Northerly direction.

A new Santa Fe rail spur has recently been completed which extends to the Kaiser Permanente Cement Plant lying about fifteen miles to the north of my project.

Supply and residence points are Big Bear City and Victorville to the north and Yucca Valley and 29 Palms in a Southerly direction. These points lie in a 35 mile radius of the project.

(e) There should be no manpower problem since the 35 mile radius encompasses 40 - 50,000 persons.

Material, supplies and/or equipment are available in nearby communities.

Water is available nearby, but power source is Big Bear City, which is 20 miles distant.

R.M. Marshall
8446 Kittyhawk Ave.
L.A. 45, California

Attachment to Form MF-103

Instruction 5

(a) The minerals for which I wish to explore are:

Rare Earths, Uranium and Thorium

(b) The proposed work includes:

1. Core Drilling a sum of 2200 ft. at intervals.
2. Bulldozing Trenches across the strike.
3. Bulldozing Core Drilling sites.

(c) The work will start within thirty (30) days and be completed within six (6) months from the date of the Exploration Project Contract.

(d) Applicant's Operating Experience and Background:

1. Four years of Prospecting & Field Work.
2. Bachelor of Science Degree

Associates' & Supervisory Operating Experience & Background:

William E. Schmidt

Mining Experience:
Mispah Mine, Tonopah, Nevada - Miner - 1926 - 27

Prospector - Discovered Weepah-Nevada- 1927
Discovered Green Elephant-1932
Gold Deposit, Jingo, Nevada

Superintendent -
Gold Cliff Mines, Mina, Nevada - 1937
(Lou Rhinderkneck, President)

Contractor of the Rose Mine, San Bernardino County,Cal.

Superintendent -
Andriminas Inc.,Silver City, New Mexico

Educational Background:
Attended Tonopah School of Mines, Vocational,1925-26-27

R.M. Marshall
8446 Kittyhawk Ave.
L.A. 45, California

Attachment to Form MF-103

Instruction 6

(a) Independent Contracts

$17,358.00	-	2200 ft. Core Drill	@ $7.89 per ft.
2,988.00	-	166 hrs.	@ 18.00 per hr. - D-8 Bulldozer

TOTAL - $20,346.00

(b) Supervision
$750.00 - Based on a period of 45 days

Geological Consultant
$500.00 - @ $100.00 per day

(c) Operating Materials & Supplies - Not Applicable

(d) Operating Equipment - Not Applicable

(e) Rehabilitation & Repairs - Not Applicable

(f) New Bldgs., Improvements, Instls. - Not Applicable

(g) Miscellaneous - Not Applicable

(h) Contingencies
$1,000.00

ESTIMATED TOTAL COST OF PROJECT:

$22,596.00

Instruction 7

(a) Yes, I am prepared to furnish my share of the cost of the proposed project in accordance with the regulations on Government participation

(b) I propose to furnish my share of the costs with my own finances.

TOTAL SUM	$22,596.00
DMEA FURNISHES 75%	16,947.00
MY SHARE	5,649.00

MINING
METALLURGY
CHEMISTRY

ORE TESTING
PLANT DESIGN
METALLURGICAL RESEARCH
ASSAYS & ANALYSES

HARLEY A. SILL
CONSULTING ENGINEER
1011 SOUTH FIGUEROA STREET
LOS ANGELES 15

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DATE	INITIALS	COM

May 21, 1957

Mr. Rolland Marshall
8446 Kittyhawk
Los Angeles 45, California

RARE EARTH ANALYSIS

Rare Earths ... 14.74%

Charges $ 15.00

We have worked on this type of material before and we believe that there is Uranium and Thorium present. In fact we have positively identified the presence of Thorium in this sample. ?

Harley A. Sill
Consulting Engineer

LABORATORY CERTIFICATE

Keldon

research corporation

MAIL: BOX 2555 TERMINAL ANNEX, LOS ANGELES 54, CALIF. • LABORATORY: 2565 BELGRAVE AVE., HUNTINGTON PARK, CALIF.
LUdlow 3-4044

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DATE | INITIALS | CODE

Date Oct. 8, 1957

Reference L.N. 18931-1

Submitted By Name Mr. Rolland M. Marshall

Address 8446 Kittyhawk Ave.

City Los Angeles 45, State Calif.

Marking: None

ELEMENT	NOT LESS THAN	NOT MORE THAN	ELEMENT	NOT LESS THAN	NOT MORE THAN
Silicon	5.0 %	50.0 %	Molybdenum	0.003 %	0.03 %
Aluminum	2.0	20.0	Vanadium	0.005	0.05
Magnesium	1.0	10.0	Lithium		
Iron	3.0	30.0	Yttrium	0.3	3.0
Calcium	3.0	30.0	Cadmium		
Sodium	0.1	1.0	Copper	0.005	0.05
Potassium	0.3	3.0	Silver		
Tellurium			Tantalum		
Boron			Zinc		
Phosphorus	0.1	1.0	Titanium	0.5	5.0
Antimony			Zirconium	0.03	0.3
Gold			Palladium		
Lead	0.005	0.05	Rhodium		
Tin			Ruthenium		
Chromium			Cobalt		
Arsenic			Lanthanum	0.1	1.0
Manganese	0.01	0.1	Cerium	0.5	5.0
Gallium	0.001	0.01	Strontium		
Germanium	0.0005	0.005	Tungsten		
Platinum			Mercury		
Bismuth			Indium		
Columbium			Barium	0.03	0.3
Nickel	0.005	0.05	Uranium	Reported Separately	
Beryllium			Thorium	Reported Separately	

1. Percentage ranges represent the probable concentrations of the elements found to be present.
2. Fire assay is the method of choice for Gold and Platinum group elements; general spectrographic techniques are limited to ore concentration greater than one or two ounces per ton.
3. Spectrochemical analysis is only one of several factors required for the complete evaluation of an ore sample; it should be regarded as a "Coarse Screen" used to estimate the advisability of additional study. Economic and mineralogical considerations are also necessary for a true appraisal of the specimen.
4. Special attention:

Respectfully submitted,

T.J. Rollins

Keldon Research Corporation

TJR/t-3

THE USE OF THIS REPORT FOR ADVERTISING PURPOSES MUST RECEIVE OUR WRITTEN APPROVAL

LABORATORY CERTIFICATE

Keldon research corporation

LUdlow 3-4044

MAIL: BOX 2555 TERMINAL ANNEX, LOS ANGELES 54, CALIF. ● LABORATORY: 2565 BELGRAVE AVE., HUNTINGTON PARK, CALIF.

Date Oct. 8,1957

Reference

Submitted By Name Mr. Rolland M. Marshall

Address 8446 Kittyhawk Ave.

City Los Angeles 45, State Calif.

Lab. No.	18931-1
Marking	None
Uranium Oxide (U_3O_8)	0.5%
Thorium Oxide (ThO_2)	Less than 0.2%

The above values are determined by measurement and evaluation of the specimen's radioactivity.

EQUILIBRIUM: Gamma excess.

ACCURACY: Fair

KELDON RESEARCH CORPORATION

Thomas J. Rollins

TJR/t-3

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U. S. Government Messenger Envelope

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2. Void previous block.
3. Write clearly.

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~~[illegible]~~	RUN STOP		RUN STOP
~~[illegible]~~	RUN STOP		RUN STOP
JULIAN V. COX BUREAU - LAND MANAGEMENT BRANCH OF FIELD SERVICES ROOM [illegible]	~~RUN~~ ~~STOP~~		RUN STOP
~~Information~~ ~~[illegible] Office~~	RUN STOP		RUN STOP
DMEA. Rm. 4459	RUN STOP		RUN STOP
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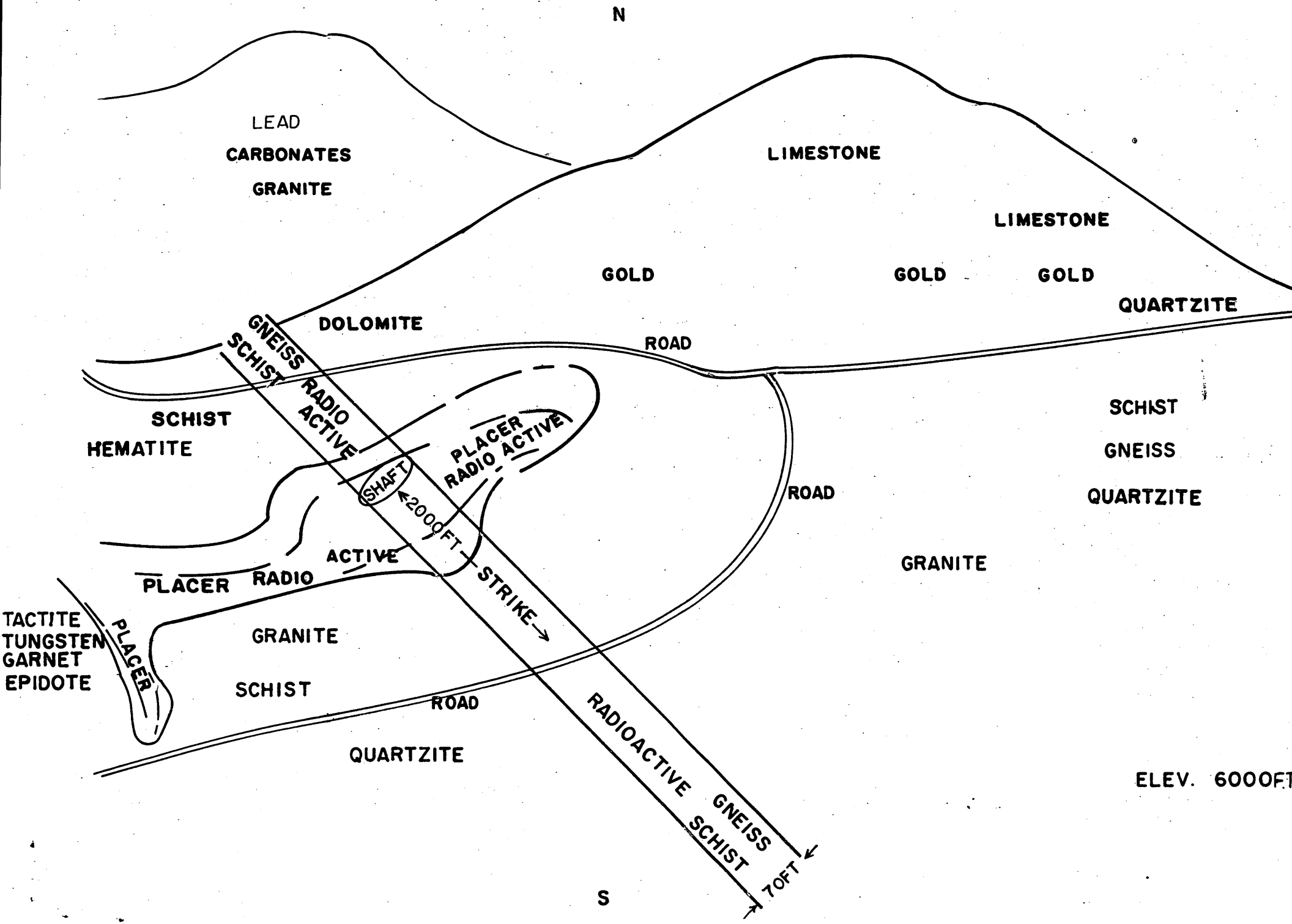
N
LEAD
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DOLOMITE
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PLACER
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ACTIVE
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RADIO
STRIKE
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Date	Surname	Code
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3/3	Ellis	700
3/3	Martin	130
"	Johnson	116
"	Hartwell	100
		~~116~~
		220
		700
3/3	Lamb	130
3/3	Lilagaard	130

Mr. Rolland M. Marshall
5636 W. 78th Street
Los Angeles 45, California

MAR 3 1958

Re: Docket No. DMEA-4859
(Rare Earths-uranium-thorium)
Key, et al., Placer Claims
San Bernardino County, California

Dear Mr. Marshall:

Your application for aid in an exploration project and other information 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 indicates that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

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

Sincerely yours,

G. C. Wardlow (for)

Administrator

FMMurphy/izm 2-28-58
cc: Mr. Murphy
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
DMEA FT Reg. II (2)

8623

Docket

Murphy
Ellis

February 28, 1958

Summary of Proposed Project

Subject: Denial of application for exploration aid.

Docket No.: DMEA-4859

Commodity: Rare earths, thorium, uranium

Amount of Application: $22,596.00

Applicant: Roland M. Marshall
5636 W. 78th Street
Los Angeles 45, California
(William E. Schmit, partner)

Property Rights: Schmit is owner of the Key, Cougar, Polaris, Weaver, and Supplement, placer claims situate in secs. 27 and 34, T. 2 N., R. 3 E., S.B.B.M., San Bernardino County, California.

Date of Application: September 27, 1957

Referred to Region II: November 18, 1957

Field Examination made: December 7, 1957

Field Team Report received: February 10, 1958

Work Proposed:

2,200 ft. core drilling @ $7.89/ft.	$17,358.00
Bulldozing drill sites and trenches, 166 hrs. @ $18/hr. (D-8 Dozer)	2,988.00
Supervision and Consultant	1,250.00
Contingencies	1,000.00
Total Estimated Cost	$22,596.00

The location of the work was not given.

Excerpts from Field Team Report of Examination by Glen G. Gentry, USBM, and H. K. Stager, USGS:

The Applicant did not meet the examiners at the appointed time. In a telephone conversation after the examination the Applicant confirmed that the examiners had mapped and sampled the best exposures and had examined all the property.

There has been no development work on the claims. One pit 9 feet deep, a trench (3x2x3 feet) and core drilling 3 holes, each reported to be 50 feet deep comprise the prospecting work done. No data relating to the drill holes were submitted. The drill cores, if any, were not on the property.

The rare earths, thorium, and uranium minerals occur in weakly mineralized layers in thin bedded mica-schist inclusions and roof pendants in granite. The granite underlies about 95% of the claim area and intrudes the minor schist and limestone present.

Five samples taken by the examiners from the most radioactive material exposed on the claims contained only a trace of uranium, and 0.01 to 0.04% combined thorium and rare earth oxides. There were no indications of higher grade lode or placer material elsewhere on the claims.

The examiners and Field Team recommended that the application be denied.

Commodity Members' Comments:

In memoranda, dated February 25 and 27, 1958, C. T. Baroach, USBM, and W. P. Williams, USGS, concur in the Field Team's recommendation.

Division of Rare and Miscellaneous Metals, F. M. Murphy, February 28, 1958:

The field examiners note that the higher grade material referred to in the application (assay certificates showing 14.7% rare earths and 0.5% U_3O_8) consisted of hand picked specimens that do not represent minable quantities of the material.

Conclusions and Recommendations:

Because there is no evidence to indicate that the project would result in the discovery of significant deposits of rare earths, uranium, or thorium, this Division concurs in the Field Team's recommendation that application DMEA-4859 should be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Director
Division of Rare and
Miscellaneous Metals

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| | 700
Complete

IN REPLY REFER TO:

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

Memorandum

February 27, 1958

To: E. W. Ellis, Defense Minerals Exploration Administration

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

Subject: Review of field examination report, DMEA 4859 (rare earths, uranium, thorium), Rolland M. Marshall, Key placer claims, San Bernardino County, California.

The examining team report that geologic conditions on the applicant's property are not favorable for the presence of significant amounts of rare earths, uranium, and thorium. Assays of samples from the property showed only trace amounts of the desired minerals. High-grade material cited by the applicant consists of selected hand specimens which do not represent minable quantities of ore.

The rare earths and uranium minerals that are present on the property are found in weakly mineralized layers in thin-bedded schist inclusions in granite.

The prospects for discovering new reserves of rare earths, thorium, and uranium on the applicant's property are not promising. I am, for that reason, in agreement with the Field Team's recommendation for denial of the application.

W. P. Williams

W. P. Williams

Official File Copy		
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"	~~FMM~~	~~700~~

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

Date February 25, 1958

BMM Docket No. 4859
BMM Contract No.
Commodity Rare Earths-Uranium-Thorium
Name of applicant Rolland M. Marshall
Name of property Key et al. Placer Claims
Location of property San Bernardino County, Calif.
Estimated cost of project

Memorandum

To: Ernest Wm. Ellis, Rare Earth Commodity Committee

From: C. T. Baroch, Acting Chief, Branch of Rare and Precious Metals CTB

Subject: Review of Field Team Report
(Application, Field Team Report, etc.)

1. Date of subject document: 2/11/58. 2. Date received by reviewer: 2/24/58.

3. Prior reports on this property known to reviewer: Yes ☐ No ☐

4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐

5. Information available on past production: Yes ☐ No ☐

6. Other pertinent factors known to reviewer: Yes ☐ No ☐

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location ☐
   b. Ownership ☐
   c. Evidence of mineralization ☐
   d. Geology ☐
   e. Proposed exploration method ☐
   f. Alternate exploration method ☐
   g. Costs ☐
   h. _____ ☐

9. Action advised:
   a. Obtain information from applicant ☐
   b. Refer to Field Team ☐
   c. Denial XX
   d. Agree with Field Team XX
      i. Consult with Mr. _____ at _____ AEC office.
   e. Disagree with Field Team ☐
   f. Suggest alternate plan ☐
   g. Request another examination ☐
   h. Approval ☐

10. Remarks: (Use back of page if necessary)

Evidence of mineralization appears to be scanty.

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

February 13, 1958

ORIGINAL FILE COPY
DMEA
RECEIVED FEB 19 1958

2/19	C	220
2/19	2/3	130
2/21	C	220
2/24	FMM	100

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4859 (Rare Earths-Uranium-Thorium)
Rolland M. Marshall
Key et al. Placer Claims
San Bernardino County, California
(Your letter, November 18, 1957)

Enclosed are three copies of a report on subject property by H. K. Stager, Geological Survey and G. G. Gentry, Bureau of Mines.

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

S. Ricker

Attachments

ON-SITE EXAM.

Reviewed by
DMEA OPERATING COMMITTEE
2-21-58
(date)

OFFICE FILE COPY
RECEIVED
2/21 2/13 130
220

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-4859 (Rare Earths-Uranium-Thorium)
Key, et al., placer claims
San Bernardino County, California

by

Glenn G. Gentry
U. S. Bureau of Mines

Harold K. Stager
U. S. Geological Survey

February 11, 1958

Reviewed by
DMEA OPERATING COMMITTEE
2-21-58
(date)

CONTENTS

	Page
Introduction	1
Conclusions and Recommendations	2
Location, Accessibility, and Local Facilities	3
History and Production	4
Property and Ownership	4
Development	5
Geologic Setting	5
Ore Deposits	6
Sampling	7
Ore Reserves	8

ILLUSTRATIONS

Figure 1 . . . . . Index map

2 . . . . . Property and Sample map

INTRODUCTION

Mr. Roland M. Marshall, 5636 West 78th Street, Los Angeles 45, California, applied to the Defense Minerals Exploration Administration, docket DMEA-4859, for Government assistance in a $22,596 program to explore for rare earths, uranium, and thorium at the Key et. al., placer claims, San Bernardino County, California.

A field examination was requested by the Operating Committee and was made by Glenn G. Gentry, U. S. Bureau of Mines, and H. K. Stager, U. S. Geological Survey. The examination was originally scheduled for Thursday, December 5, 1957, but at the request of the applicant it was changed to Saturday, December 7, 1957. The applicant did not meet the examiners at the appointed time and place and later telephoned to state that he would not be able to make the examination that day. Therefore, the examination was made without him. In a telephone conversation with the applicant after the examination he confirmed that the examiners had mapped and sampled the best exposures and had examined all of the property concerned in the application.

An inquiry was made to the Atomic Energy Commission, Salt Lake City, Utah, concerning the property but A.E.C. personnel had not visited the area and could not supply any additional information on the uranium occurrence.

The geology of the San Gorgonio quadrangle, that includes the Key claim area, was studied in detail by F. E. Vaughan in 1917[1/].

1/ Vaughan, F. E., 1922, Geology of San Bernardino Mountains north of San Gorgonio Pass: Univ. Calif. Dept. Geol. Sci. Bull., vol. 13, pp. 319-341.

CONCLUSIONS AND RECOMMENDATIONS

The results of the examination indicate that the property contains several small concentrations of a few pounds each of material that bears traces of rare earths, thorium, and uranium. The deposit, as now exposed, has no economic value at present or foreseeable future metal prices. There is no geologic evidence to indicate larger or higher grade lode or placer deposits of these elements below the exposures or elsewhere on the claims.

We recommend that the application for Government assistance be denied.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The mining claims are in secs. 27 and 34, T. 2 N., R. 3 E., S.B.B.&M., San Bernardino County, California, 19.1 miles northwesterly of Yucca Valley, California.

From this town the claims are reached by travelling westerly 5.7 miles via the all-weather Twentynine Palms highway to Pioneer Town, thence turn right (northwesterly) at the Rimrock Hotel sign and follow an unimproved road 4.4 miles, thence turn left (southwesterly) at Kenyons sign via an unimproved road 7.0 miles, thence turn left (south) and follow an unimproved road 1.2 miles, thence turn left (southeasterly) at R. Behrens sign and follow an unimproved road 0.8 miles.

Weather conditions will rarely interfere with year-round mining operations. There is no electric power available in the district and mining machinery would be operated by gasoline- or diesel-powered engines.

Water for mining and domestic purposes would have to be hauled from springs approximately 10 miles northeast of the claims.

Labor, materials, and supplies can probably be obtained in San Bernardino. Mail, telephone, and trucking services are available in Yucca Valley.

Railroad freight services could be obtained from the Southern Pacific Company at the White Water station, approximately 44 miles southeasterly of the claims.

HISTORY AND PRODUCTION

There has been no production of any minerals from the claims and only a very minor amount of prospecting has been done over a period of many years.

The claims have apparently passed through various ownerships prior to relocation by Schmidt and Marshall as one claim notice was dated 1936 and posted by W. E. Swan.

PROPERTY AND OWNERSHIP

The applicant and his partner, William E. Schmidt, claim ownership by right of location, of the following unpatented placer mining claims:

Claim name	Book	Page
Key	327	268
Cougar	309	284
Polaris	296	140
Weaver	309	289
Supplement	327	270

The applicant also stated that he owned 30 acres of placer ground which included the area on which a prospect pit had been sunk to a depth of 9 feet and about 150 feet of diamond drilling had been done. The applicant had not filed lode claims on the placer ground.

None of the claim corners or location notices were found and Mr. Schmidt had departed for the Veterans' Hospital in Los Angeles prior to the arrival of the Field Team and was therefore not available for consultation.

DEVELOPMENT

There has been no development work conducted on any of the claims.

Prospecting during past years has comprised sinking one small pit (4 feet by 4 feet by 9 feet deep), one shallow trench (3 feet by 2 feet by 3 feet), and core drilling 3 holes, each reported to be 50 feet deep, adjacent to the collar of the 9-foot pit (fig. 2). This pit is the 20-foot shaft referred to in the application.

The drill cores, if any, had been removed from the property and no information was available as to the results obtained.

There are neither improvements nor equipment on the property.

GEOLOGIC SETTING

The Key, et. al., placer claims are in an area of moderate relief on the east flank of the San Bernardino Mountains. The rocks exposed in the vicinity of the claims are chiefly granite, schist, and limestone.

The oldest rock exposed on the claims is a mica-schist of probable Cambrian age. It consists of thinly interbedded mica-rich and quartz-rich layers that strike northwest and dip 60° to 80° NE. It occurs as inclusions a few feet in diameter and small roof pendants ten to twenty feet wide and ten to one hundred feet long in the granite. Overlying the schist, immediately north of the claim area, is a light-gray, thin-bedded, marbleized limestone that is correlated, by Vaughan, with the Furnace limestone of Upper Cambrian or Ordovician age.

Underlying about 95 percent of the claim area and intruding the schist and limestone is a light-gray to white, medium-grained granite. It is part of the San Bernardino batholith of probable Cretaceous age and was named, by Vaughan, the Cactus granite. Numerous thin aplite and pegmatite dikes cut the granite and the overlying metasedimentary rocks.

ORE DEPOSITS

The rare earth, thorium, and uranium minerals occur in weakly mineralized layers in thin bedded mica-schist inclusions and roof pendants in granite.

The ore mineral, or minerals, occurs in minute quantities and has not been identified but is probably monazite or xenotime. Samples of the most radioactive material exposed on the claims contained a trace of uranium, 0.01 to 0.04 percent combined thorium and rare earth oxides, and 0.08 to 0.85 percent titanium oxide. The TiO_2 content is probably contained in scattered grains of sphene ($CaO.TiO_2.SiO_2$ Titanite) present in most of the schists and granitic rocks found in this region. The higher grade material referred to in the application consisted of hand specimens picked by the applicant from the thin, slightly mineralized schist layers exposed in the prospect pit (fig. 2), and does not represent minable quantities of material. The three drill holes put down in the vicinity of the prospect pit (fig. 2) cut several feet of slightly radioactive material, about thirty feet down the dip of the schist beds exposed in the pit, but no samples of this material were saved.

No uranium, thorium, or rare earth ore has been produced from the property or elsewhere in the district.

SAMPLING

Samples were taken in the locations where the applicant proposed to explore (fig. 2) and the property was carefully checked

for radioactivity by means of a Detectron DG-2 geiger counter. No ore minerals were visible anywhere on the claims and the sample locations were determined entirely by the slightly anomalous radioactivity. Assays for the five samples taken by the examiners are as follows:

BM Sample No.	Width, feet	Percent eU_3O_8	Percent Thorium and Rare Earths	Percent TiO_2	Description
2384	2.3	trace	0.02	0.83	Southeast wall of pit, micaceous and limy schist, foot wall side of pit 5 feet below collar.
2385	4.4	trace	0.02	0.77	North side of pit. From surface to mica schist contact. Mostly thin-bedded schist.
2386	3.7	trace	0.01	0.85	West side of pit. Thin-bedded schist--2.8 ft. above bottom of pit.
2387	0.9	trace	0.01	0.08	Southwest corner of pit and 1.5 ft. below collar. Granite-quartz-schist.
2388	3.0	trace	0.04	0.78	Southeast face of shallow trench. Pegmatite and yellow gouge.

ORE RESERVES

There are no reserves of rare earth, thorium, or uranium ore on the Key et. al., placer claims. The concentrations of minerals containing these elements are too small and too low grade to be mined economically at present or foreseeable future metal prices and the

cost of finding and selective mining of the mineralized material would greatly exceed the value of the product. There are no indications of higher grade lode or placer material elsewhere on the property or in the district.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-4859
(Rare Earths,
Uranium, Thorium)

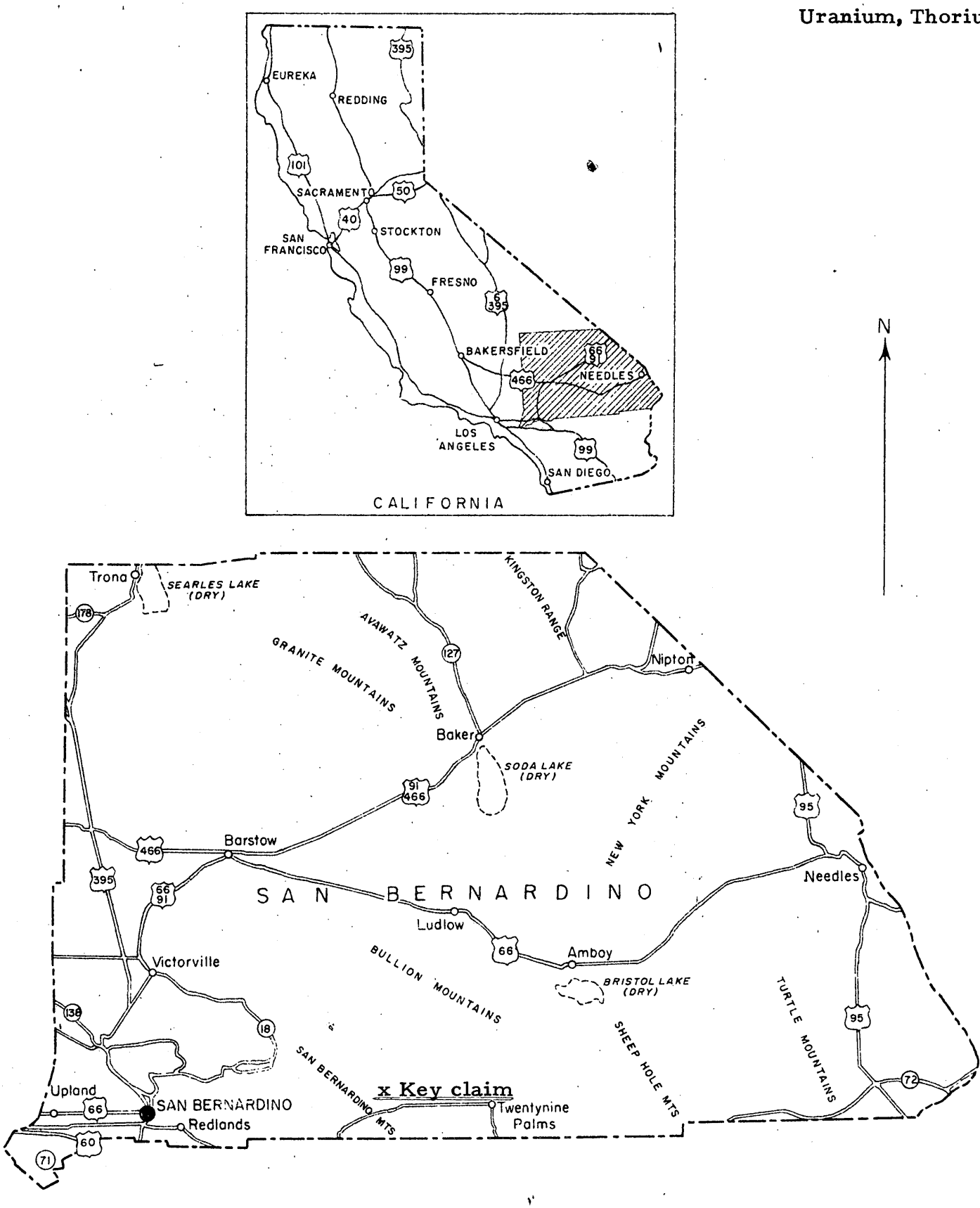
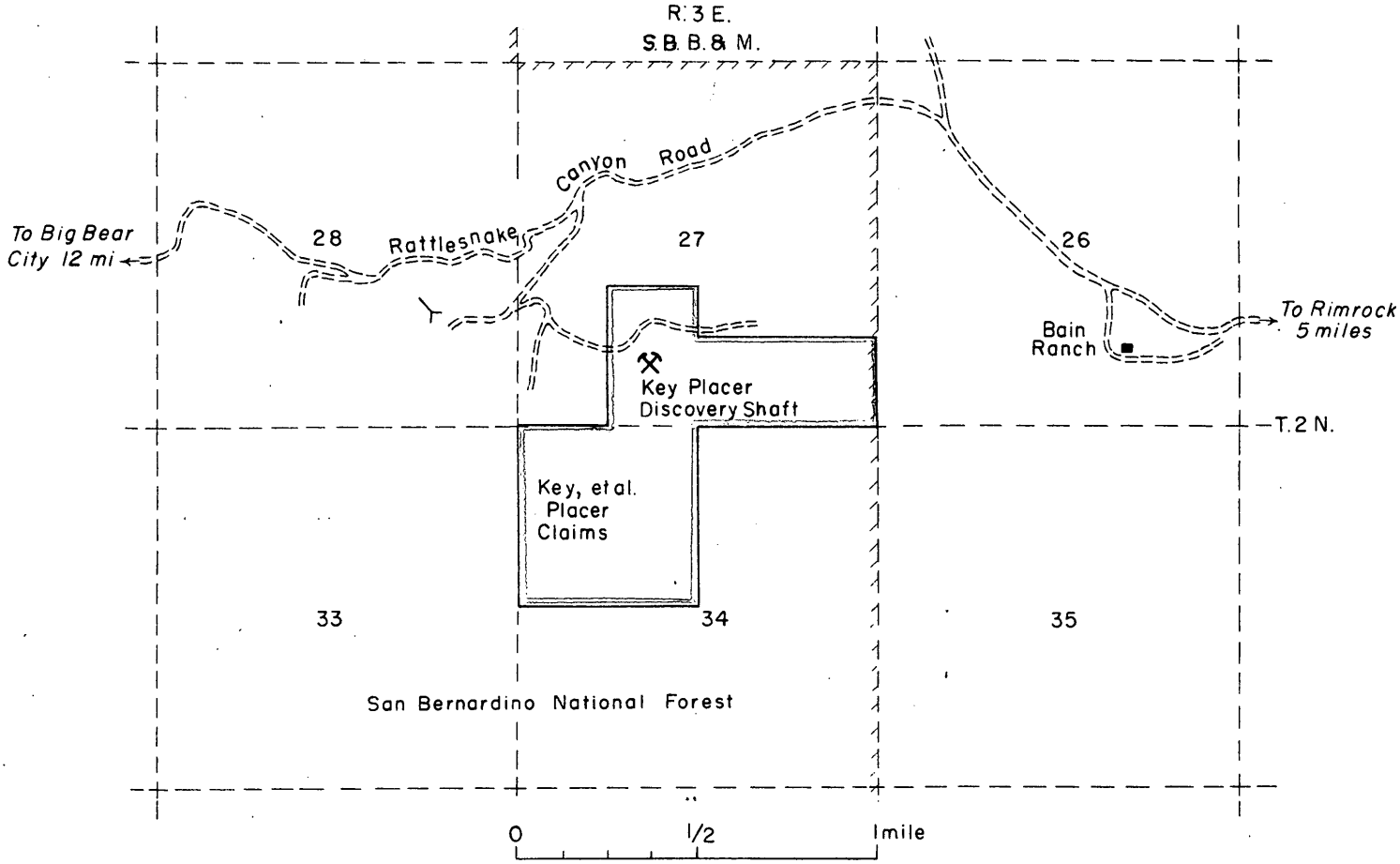


Figure 1. INDEX MAP OF SAN BERNARDINO COUNTY, CALIFORNIA

0 30 60 90 Miles



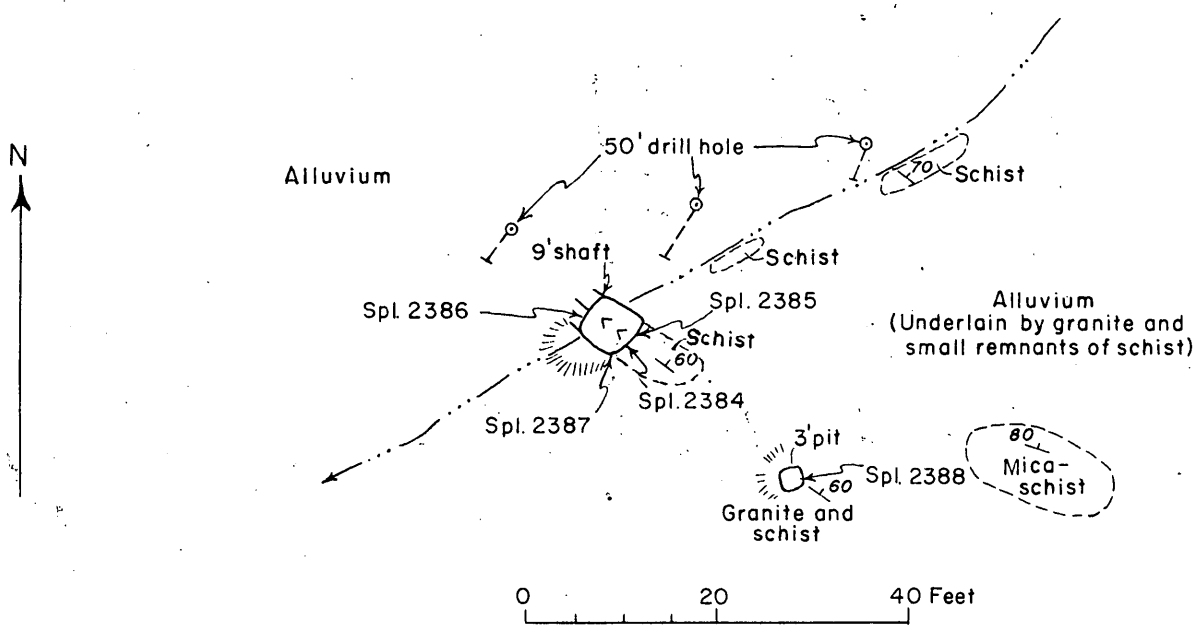


Figure 2. PROPERTY MAP AND DISCOVERY SHAFT, KEY ET. AL. PLACER CLAIMS SAN BERNARDINO COUNTY, CALIFORNIA

U.S. Dept of The Interior
D. M. E. A.
Allen S. Dakan, Dir;

Jan. 27, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 28 1958

DATE	INITIALS	CODE
1/28	C	220
1/29	FMM	700

Dear Sir,

Please be notified of a change of address, from 8446 Kitty hawk Ave, Los Angeles 45, California; to 5636 West 78th Street, Los Angeles 45, Calif.

Sincerely,

Mr. Rolland M. Marshall
5636 W. 78th Street
Los Angeles 45, Calif.

Docket number - DMEA-4859

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11-14	Murphy	700
11-14	Ellis	700
	Martin	130
11/15	Johnson	110
"	Rutenkoy	10[illegible]
11/18	C	[illegible]

NOV 18 1957

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

Re: Docket No. DMEA-4859
(Rare Earths-uranium-thorium)
R. M. Marshall and W. E. Schmidt
Key, et al., Placer Claims
San Bernardino County, California

Dear Mr. Ricker:

The captioned application is referred to Region II Field Team for investigation, a field examination if deemed advisable, and recommendations.

Enclosed are copies of memoranda, dated October 29 and 31, 1957, by James Paone, USBM, and W. P. Williams, USGS, respectively, relating to the application. Also enclosed for Field Team use is one copy of the application.

In the event the Field Team concludes that a project to explore the above-referenced property is warranted, it should request the Applicant to clarify the ownership of the claims. We note under Instruction 3,(a) that the claims are held by William E. Schmidt, et al., whereas in the form MF-103 it is stated that Marshall is in partnership with the owner Schmidt and no other names are given. Also, it should determine whether the Applicant has right of possession of the veins mentioned as occurring on the placer claims.

If the application was received by your office prior to DMEA Order 1, Revised, October 22, 1957, a contract, if approved, will be on the previous basis of 75 percent participation by the Government; otherwise it will be on a 50 percent basis.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (SLB)

Enclosures
APPROVED:

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

W. P. Williams (SLB)
Member, Geological Survey

FMMurphy/izm 11-14-57
cc: Mr. Murphy
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224

8623

8623

OFFICIAL FILE COPY

Date	Surname	Code
11-14	Murphy	700
11-14	Ellis	700
11-15	Martin	130
"	Johnson	110
"	Mittendorf	100
		200
		700
11/15	Williams	130
11/15	Lamb	130

NOV 18 1957

Mr. Rolland M. Marshall
~~8446 Kittyhawk Avenue~~
Los Angeles ~~45~~, California
New address 5636 W. 79th St.

Re: Docket No. DMEA-4859
(Rare Earths-uranium-thorium)
Key, et al., Placer Claims
San Bernardino County, California

Dear Mr. Marshall:

The application for assistance in exploring your property, under the captioned docket number, has been reviewed by the Division of Rare and Miscellaneous Metals of the Defense Minerals Exploration Administration. It has been referred to:

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

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

FMMurphy:izm 11-14-57
cc: Mr. Murphy
Admr.'s Reading File
DMEA FT Reg. 2 (2)

Date	Surname	Code

OFFICIAL FILE COPY

DMEA Form 7
(12-56)

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

RECEIVED NOV 18 1957

DATE	INITIALS	CODE
11/18	gb	220
11	~~[illegible]~~	~~[illegible]~~

November 13, 1957

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4859 (Rare Earths)
Rolland M. Marshall
Placer Mine Deposits
San Bernardino County, Calif.
(Your letter, November 4, 1957)

According to our records and receiving stamp on our copy, subject application was received in this office October 21, 1957, 8:32 A.M.

S. Ricker

IN REPLY REFER TO:

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

October 31, 1957

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

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

Subject: Review of application, DMEA 4859 (rare earths, uranium, thorium), Rolland M. Marshall, Placer Claim deposits, San Bernardino County, California

The applicant proposes to explore for rare earths, uranium, and thorium deposits on Placer mining claims that comprise a total of about 300 acres.

The applicant states that past exploration on the property includes a 20 foot shaft, three core drill holes, and miscellaneous sampling and prospecting. There does not seem to have been any production from the property.

The applicant submits some interesting spectrographic analyses that show relatively high values for yttrium, titanium, cerium, and uranium oxide.

The property and the applicant's proposed exploration project may have merit if it could be shown that significant tonnages of mineralized material might be found by further exploration. I recommend that the Field Team be asked to examine the property and submit a report of their findings.

W. P. Williams

W. P. Williams

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 1 1957

DATE	INITIALS	CODE
11/1	C	220
"	[illegible]	700

OFFICIAL FILE COPY DMEA RECEIVED OCT 30 1957		
DATE	INITIALS	CODE
10/31	gb	220
11	~~Ellis~~	700
	FMM	

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

Date October 29, 1957

DMEA Review No. 4859
DMEA Contract No.
Commodity Uranium
Name of applicant Rolland M. Marshall
Name of property
Location of property San Bernardino County & Riverside Cty.
Estimated cost of project $22,596.00

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: James Paone, Bureau of Mines Member
Uranium Commodity Committee

Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date of project document: 10/28/57 2. Date received by reviewer: 10/29/57

3. Prior reports on this property known to reviewer: Yes [ ] No [ ]

4. Prior reports on nearby properties known to reviewer: Yes [ ] No [ ]

5. Information available on past production: Yes [ ] No [ ]

6. Other pertinent factors known to reviewer: Yes [ ] No [ ]

7. Explain items marked yes above:

8. Factors meeting practical consideration:
a. Location [ ]
b. Ownership [ ]
c. Evidence of mineralization [ ]
d. Geology [ ]
e. Proposed exploration method [ ]
f. Alternate exploration method [ ]
g. Costs [ ]
h. [ ]

9. Action advised:
a. Obtain information from applicant [ ]
b. Refer to Field Team [X]
c. Denial [ ]
d. Agree with Field Team [ ]
e. Disagree with Field Team [ ]
f. Request [illegible] [ ]
g. Request [illegible] [ ]
h. Approval [ ]
i. Consult with Mr. [ ]
j. [ ]

10. Remarks: (Use back of page if necessary) Geologic and mineralogical data are insufficient but the field team may have information on the specific area on which a recommendation could be made.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/1	[illegible]	200
"	[illegible]	700
11/4	[illegible]	130
"	[illegible]	110
11/8	[illegible]	225
		780

NOV 4 1957

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

Re: Docket No. DMEA-4859 (Rare Earths)
Rolland M. Marshall
Placer Mine Deposits
San Bernardino County, California

Dear Mr. Ricker:

Because the ratio of Government participation for certain minerals changed as of October 22, 1957, we must know the date of filing of the subject application with your office. We cannot determine this date since the application bears no receiving stamp. Most offices follow the custom of placing a receiving stamp on incoming mail, and we suggest that you do likewise, particularly on applications and other documents received at your office for transmittal to Washington.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (24B)

APPROVED:

P. F. Yopes (24B)
Member, Bureau of Mines

Thor H. Kiilsgaard (24B)
Member, Geological Survey

ASDakan:kb - 11/1/57
Copy to: Oper. Committee
Adm. R. File
Chron.

8623

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

October 28, 1957

Mr. Rolland M. Marshall
8446 Kittyhawk Avenue
Los Angeles 45, California

Subject: DMEA-4859

Dear Mr. Marshall:

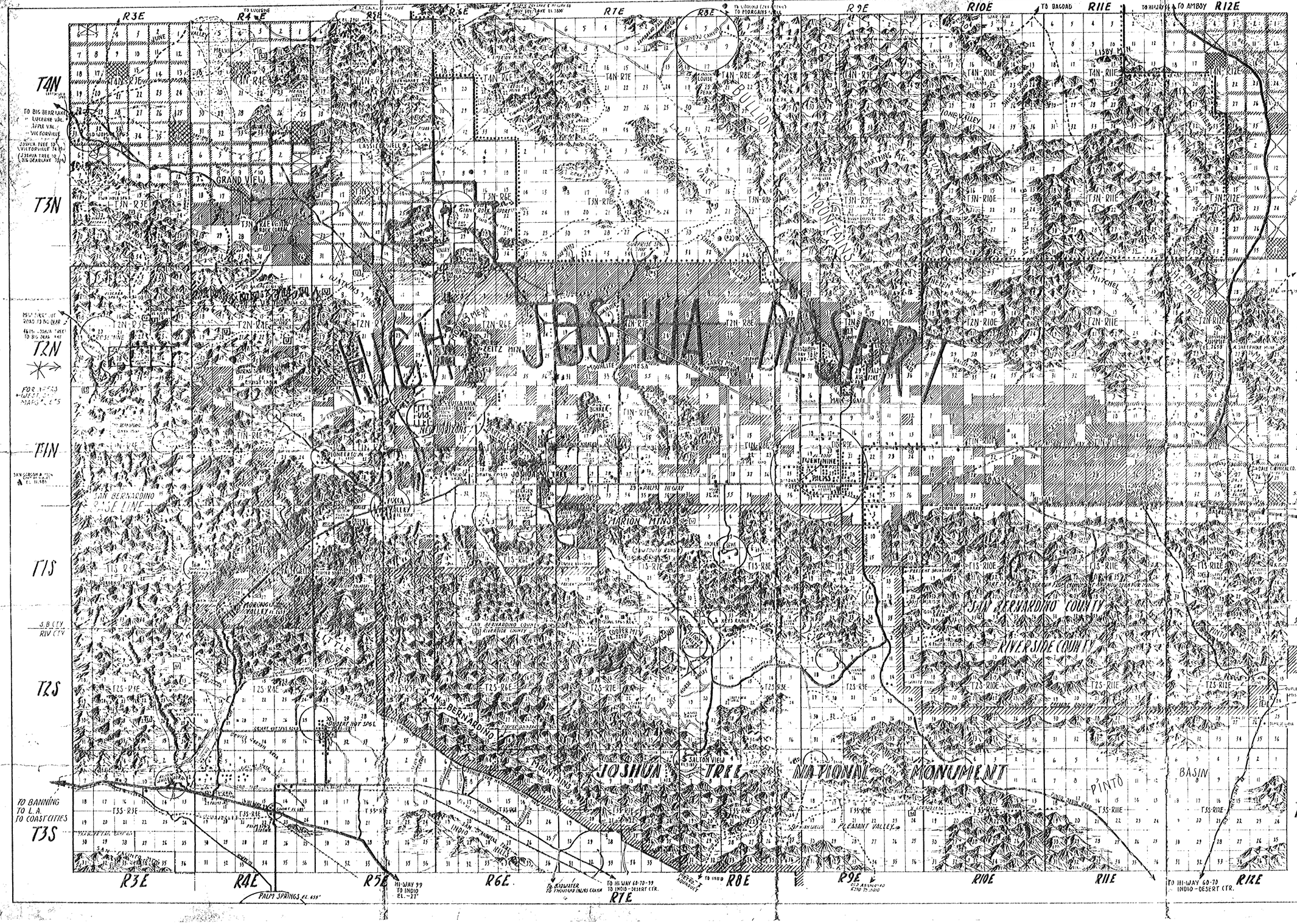
Your application for exploration assistance, dated September 27, 1957 submitted to our office at Reno, Nevada has been assigned Docket Number DMEA-4859 and referred to the Rare and Miscellaneous Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region II



REVISION DATA		
REVISED DATE	AUTHORITY	BY
1-1-51	Col. E.B. Moore	E.B.M.
6-1-51	Col. E.B. Moore	E.B.M.
4-14-51	Col. E.B. Moore	E.B.
1-2-52	Col. E.B. Moore	E.B.
4-20-52	Col. E.B. Moore	E.B.
9-15-52	Col. E.B. Moore	E.B.
1-28-53	Col. E.B. Moore	E.B.
5-4-53	Col. E.B. Moore	E.B.
1-2-54	Col. E.B. Moore	E.B.
3-15-54 *	Col. E.B. Moore	E.B.
4-12-54 **	Col. E.B. Moore	E.B.

MOORE'S MAP SERIES

No. 1 = JOSHUA TREE - 29 PALMS AREA
No. 2 = VICTORVILLE - APPLE VALLEY AREA
No. 3 = 29 PALMS - RICE AREA
No. 4 = RICE - COLORADO RIVER AREA
No. 5 = LANCASTER - PALMDALE AREA
No. 6 = U.S. MARINE ART. RANGE - APPROX. AREA
No. 7 = THE HIGH JOSHUA DESERT (GENERAL)
No. 8 = OIL & GAS MAP, STATE OF CALIF.
No. 9 = UNDERGROUND WATER FLOW - JOSHUA TREE - 29 PALMS AREA (APPROX. 660,000 ACRES)

NOTE

FOR AREA WEST OF THIS MAP SEE MAP #2 WHICH COVERS - LUCERNE VAL. VICTOR VAL. APPLE VAL. VICTORVILLE. FAIRVIEW VAL. BIG BEAR LAKE, LAKE ARROWHEAD, ETC.
FOR AREA EAST TO RICE, SEE MAP #3

CODE

- U.S. MARINE ARTILLERY RGE BDY
- GOOD GRAVEL GRADED ROADS
- DIRT ROADS OK FOR AUTO TRAVEL
- ABANDONED ROADS - FOR JEEPS ONLY
- FOOT OR HORSE TRAILS
- RAILROADS
- RIVERS
- TELEPHONE, TELEGRAPH LINES
- ELECTRIC LINES
- COUNTY BOUNDARY
- SAN BERNARDINO BASE LINE
- PRESENT MONUMENT BOUNDARY
- FORMER MONUMENT BOUNDARY
- METRO. WATER AQUADUCT
- RANCHES, CABINS, ETC.
- WELLS, SPRINGS, BOTH OLD & NEW - NOT WATER
- MINES BOTH OLD & NEW
- MOUNTAIN PEAKS
- DRY LAKES
- SCHOOLS
- AIRPORTS
- TRACES OF CINNABAR REPORTED ON PROSPECTING
- CINDERS
- 50% LEASE MAY BE AVAILABLE
- PRIVATELY OWNED LAND / GOVERNMENT LAND — SURVEYED AND UNSURVEYED
- TAX DEEDED LANDS
- STATE SCHOOL LANDS
- SOUTHERN PACIFIC R.R. LANDS
- PATENTED HOMESTEADS
- PATENTED MINING CLAIMS
- RAILROAD SECTION
- DESIGNATES MOUNTAIN AREAS

TOWNSHIP 36 SECTIONS
SECTION - 1 Sq. Mile (640 Acres) OR 128.5 Acre TRACTS
5 Acre TRACT = 330 x 660' (CONTAINS 217,800 Sq. Ft.)

FOR AREAS EAST → SEE MAPS #3 & #4

SAN BERNARDINO BASELINE
(TO RICE, PARKER DAM)
YUMA, ARIZ.
PHOENIX, ARIZ.
(ROAD UNDER CONSTRUCTION)

SAN BERNARDINO CTY
RIVERSIDE CTY

COPIES AVAILABLE: ADDRESS
COL. E. B. MOORE PO BOX 100, EASTERLY DRIVE
JOSHUA TREE, CALIF.

MAGNETIC NORTH
APPROX MEAN DECLINATION 15° 30' 1955

ANNUAL MAGNETIC CHANGE 8' DECREASE

SECTION MAP — A SOUTHERN PORTION OF SAN BERNARDINO COUNTY (THE HIGH DESERT AREA) INCLUDING A NORTHERN PORTION OF RIVERSIDE COUNTY

UNITED STATES GOVERNMENT LAND
(SMALL TRACT ACT OF JUNE 1, 1938)

COMPILED BY	DRAFTSMAN	COPYRIGHT BY
Col. E. B. Moore	Richard Wadsworth	E. B. MOORE 1950-1951-1952-1953 1954-1956
SCALE	DATE REVISED	DWG #
1/2" = 1 MILE	4-14-51 / 6-12-54	1