Surname copy

700

F. L. Knouse
Kilsgaard
Landt
Selfridge

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

SEP 14 1956

Messrs. Joseph D. Ronzone,
Carl Sheedy, and A. Dale Thomas
R. S. T. Company
P. O. Box 743
Placerville, California

Re: Docket No. DMEA-4340 (Uranium)
R. S. T. Group of Claims
El Dorado County, California

Gentlemen:

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, although noting the occurrence of sparse uranium mineralization on your property, 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,

Frank E. Johnson (Eyes)
ACTING Administrator

FIKnouse/gla
(9-13-56) 9-14-56
cc to: Admr.'sReading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JCHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
DMEA Field Team, Region II (2)

R.G.S.

Denial 3738

Uranium

$254,106.00 cost

well documented

No controversy

Murphy

Well documented

7 Mc

Surname copy

700

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

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

Careful study of all our information, although noting some uranium ore on your property, indicates to us 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,

Administrator

FLKnouse/gla
9-13-56
cc to: Admr.'sReading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210,GSA
Code 700
Mr. Knouse
DMEA Field Team, Region II (2)

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

DOCKET COPY

September 13, 1956

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4340

Commodity: Uranium

Applicant: R. S. T. Company
P. O. Box 743
Placerville, California

Property: Consists of 8 contiguous lode mining claims owned by Applicant as follows: Suzy Q, Gi-Gi Nos. 1 and 2; Hope Nos. 2, 3, and 4, Dark Canyon No. 2, and May Day, in sec. 6 and 7, T. 11 N., R. 12 E., M.D.M. & B., El Dorado County, California.

Date of Application: June 13, 1956

Work Proposed: Applicant proposed a rather indefinite 3-stage program to explore a radioactive quartz vein. Stage I is to consist of 50 feet of drifting along a quartz vein that has been exposed on the Hope No. 3 claims by an open cut, at a total cost of $1,825.00. Applicant reports two hand-picked samples taken from a 10-foot depth in ~~the~~ on open cut assayed eU_3O_8 0.03% and 0.10% and chemical analyses ~~assayed~~ U_3O_8 0.16% and 0.089%. All other stages of work are to be contingent on the findings in Stage I, and no cost estimates for Stages II and III were submitted. Applicant reports various shafts and open cuts have exposed quartz veins on the property and that all exposures show radioactivity that increases in depth, and the exposures are open for inspection.

Applicant reports the vein to be in a slate belt "Calaveras" formation and near the contact of granodiorite. Vein material is reported described by U. S. Bureau of Mines as "weathered limonitic quartz rock."

There is no known past or current production from the property.

Cost of Proposed Work:

Labor, 2 miners @ $2.50/hr. - 15 days	$600.00
8 hrs. tractor w/dozer @ $12/hr.	96.00
Operating materials and supplies, pipe, track, explosives, etc.	403.00
Operating equipment (no ~~deterioration~~ damage)	138.00
Repairs and maintenance	314.00
Total cost of drift	$1,551.00

$1,551.00 rounded to $1,500.00 / 50 ft. of drift = $30/ft. of drifting

50 ft. of drift @ $30/ft.	$1,500.00
Consulting engineer @ $100/day - 2 days	200.00
Contingencies	125.00
Total Estimated Cost (Stage I) of project	$1,825.00
Government Participation at 75%	$1,368.75

Field Team Report, August 29, 1956 (Joint report by H. K. Stager, USGS, and B. H. Sheahan, USBM)

The oldest rocks in the claim area are mica schists of the Calaveras formation, Carboniferous age. The rocks are cut by veins and irregular-shaped masses of quartz along bedding-plane faults. The property is near the middle of a thick series of schists about 3 miles wide and over 10 miles long, bounded on thenorth and south by younger igneous rocks. Locally these faults contain veins and irregular masses of quartz from a few inches to as much as 50 feet thick. It is within these veins, and in the brecciated rock along the faults, that the uranium deposits occur.

The deposits consist of traces of uranium-bearing material in quartz veins and in altered schist breccia along the faults. However, no uranium minerals were observed in the most highly radioactive material. Gangue minerals are quartz (both clear and smoky varieties), limonite, wavellite (?), mica, and pyrite. The uranium-bearing concentration areas are from a few inches to several feet in diameter, with no apparent control other than the presence of abundant limonite. The most radioactive exposures are near a massive quartz outcrop at the top of Slate Mountain.

Two samples hand picked by the Applicant from the most radioactive exposure on a narrow quartz vein in a short open cut assayed 0.10%equivalent and 0.16% chemical U_3O_8. Two

samples cut across the face of the best exposure contained 0.01 and 0.02 percent equivalent U_3O_8.

Concentrations of uranium-bearing material found by exploratory trenches and open cuts are too small, low grade, and widely scattered to be mined economically. There is no geological evidence to indicate the presence of larger or higher grade ore deposits below the present exposures or elsewhere on the claims. Therefore, the application for Government exploration assistance should be denied.

The Executive Officer concurs with the examining team's recommendations.

Comments of Commodity Specialists:

U. S. Geological Survey, N. E. Nelson, September 6, 1956.

Concurs with the recommendation of the Field Team.

U. S. Bureau of Mines, John E. Crawford, September 7, 1956.

Concurs with the recommendation of the FieldTeam.

Rare and Miscellaneous Metals Division, F. L. Knouse, September 12, 1956

The examination of this property reveals that it may contain numerous small deposits of low-grade uranium-bearing material. However, the deposits are too low grade, limited in size, and scattered to justify additional exploration for uranium. From the exposures made on the property it is estimated that, by careful mining and sorting, a few hundred pounds of material may be produced containing 0.10 percent U_3O_8.

Geologically, there is no evidence that indicates the presence of larger or high-grade uranium deposits in depth or elsewhere on the property. Therefore, the application for Government exploration assistance should be denied.

Conclusions:

A review of all our information relating to the proposed project indicates the probability of making a significant discovery on the property is not promising. Therefore, the application should be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

9/7/56 gla

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

RECEIVED
SEP - 7 1956

Date 9/7/56

DMEA Docket No. 4340
DMEA Contract No.
Commodity Uranium
Name of applicant R. S. T. Company
Name of property R. S. T. Group of Claims
Location of property El Dorado County, California
Estimated cost of project $1,825.00

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

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

1. Date of subject document: 8/29. 2. Date received by reviewer: 9/6.

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 ☒
- d. Agree with Field Team ☒
- e. Disagree with Field Team ☐
- f. Suggest alternate plan ☐
- g. Request another examination ☐
- h. Approval ☐
- i. Consult with Mr. _____ at _____ AEC office.

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

This report has been reviewed with JO. Hosted, Washington representative of the Atomic Energy Commission.

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

RECEIVED
SEP - 7 1956

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9/7/56 gla

IN REPLY REFER TO:

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

RECEIVED
SEP - 7 1956

September 6, 1956

Re: DMEA 4340
R.S.T. Company
R.S.T. Group
El Dorado Co., California
$1,825.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The applicant, by an indefinite proposal, requested assistance in testing a quartz vein by drifting. Little supporting information was given in the application.

The examiners found the small concentrations of sparsely mineralized material along quartz veins and in fractures in the mica schist. The material as shown by sampling is too scattered, low grade and in too small volumes to be economic.

The examiners recommend that the application be denied. In their opinion the smoky quartz crystals found in the veins are of value.

I concur with the recommendation of denial.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
SEP 7 1956

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I concur with the recommendation of denial.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-9/6/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

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

RECEIVED

September 6, 1956

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J. O. Hosted, 3210

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

RECEIVED
SEP - 7 1956

September 6, 1956

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R.S.T. Company
R.S.T. Group
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$1,825.00 - Uranium

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G-9/6/56

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DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

9/10/56

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

1605 Evans Avenue
Reno, Nevada

August 29, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4340 (Uranium)
R.S.T. Company
R.S.T. Group of Claims
El Dorado County, California
(Your letter dated July 6, 1956)

Enclosed are four copies of report by B. H. Sheahan, Bureau of Mines and H. K. Stager, Geological Survey on subject property recommending denial of DMEA exploration assistance.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Encl.

Reviewed by
DMEA OPERATING COMMITTEE
9-7-56
(date)

BUREAU OF MINES
WASHINGTON, D. C.
AUG 31 8 03 AM '56

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-4340 (Uranium)
R.S.T. Company
R.S.T. Group of Claims
El Dorado County, California

By

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

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

August 29, 1956

Reviewed by
DMEA OPERATING COMMITTEE
9-7-56
(date)

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INTRODUCTION	1
CONCLUSIONS AND RECOMMENDATIONS	1
LOCATION, ACCESSIBILITY AND LOCAL FACILITIES	1
HISTORY AND PRODUCTION	2
DEVELOPMENT	3
GENERAL GEOLOGY	3
ORE DEPOSITS	4
ORE RESERVES	5

ILLUSTRATIONS

Fig. 1 - LOCATION MAP, R.S.T. Group of Claims, Eldorado County, California

INTRODUCTION

The R. S. T. Company, P. O. Box 743, Placerville, California, applied for Government assistance in a $1,825.00 program under the Defense Minerals Exploration Administration, docket DMEA-4340, to explore for uranium on the R. S. T. group of claims, El Dorado County, California.

A field examination was requested by the Operating Committee on July 6, 1956, and was made by B. H. Sheahan, U. S. Bureau of Mines, and H. K. Stager, U. S. Geological Survey, on July 17, 1956, accompanied by Joseph D. Ronzone, Carl Sheedy, and A. Dale Thomas, who are partners in the applicant company. The applicants proposed to explore for minable uranium ore bodies by 50 feet of drifting along a quartz vein.

CONCLUSIONS AND RECOMMENDATIONS

The R. S. T. uranium deposit consists of small concentrations of sparsely mineralized material along quartz veins and fractures in mica schist. The results of the examination indicate that the deposit may contain numerous small concentrations of low grade material similar to those that have been exposed but that the grade is too low and the concentrations are too small and widely scattered to be economically mined.

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

LOCATION, ACCESSIBILITY AND LOCAL FACILITIES

The R.S.T. group of claims are in the Slate Mountain Mining District, in sections 6 and 7, T. 11 N., R. 12 E., M.D.B.&M., El Dorado County, California (fig. 1).

To reach the Hope #3 claim from Placerville, California, follow State Highway 49 northerly 0.7 mile, turn right on Georgetown road 3.1 miles, turn right on graded county road and go easterly 10.0 miles to road junction, turn left and follow road northerly 3.5 miles toward U.S. Forest Service, Slate Mountain Lookout Tower, turn left on a very steep, dusty, jeep trail 0.3 mile to the Hope #3 adit at an altitude of 3700 feet.

Placerville, California, the nearst source of labor and supplies, is 17.6 miles by road.

Water for domestic purposes is obtained on the property.

HISTORY AND PRODUCTION

Traces of radioactive mineralization were discovered in December 1955 by A. Dale Thomas and Carl Sheedy. There has been no production. Mr. Joseph D. Ronzone is now doing the annual assessment work.

The property is owned by the applicants and includes eight unpatented mining claims which are recorded at Placerville, California.

Name of Claim	Date located	Book	Page
Suzy Q	1/31/56	33	264
Gi-Gi #1	2/7/56	33	266
Gi-Gi #2	2/7/56	33	267
Hope #2	2/18/56	33	279
Hope #3	2/29/56	33	289
Hope #4	3/25/56	33	325
Dark Canyon #2	5/1/56	33	377
May Day	5/1/56	33	381

All of the partners have mining experience. Carl Sheedy is a real estate broker and A. Dale Thomas is in the insurance business.

DEVELOPMENT

The Hope #3 claim is developed by a 15 foot trench and a 5 foot drift on a quartz vein. Location workings include a few other shallow prospect pits 5 to 10 feet deep.

A small tool shed near the drift is the only surface improvement.

A list of available equipment is as follows:

Item	Condition
1 Air compressor, 105 cfm, portable (rented)	Good
1 Jackhammer, hoses, and steel	Fair
1 Truck, 1/2 ton	Poor
Miscellaneous hand tools	Fair

GENERAL GEOLOGY

The oldest rocks in the claim area are mica schists of the Calaveras formation of Carboniferous age. These rocks are cut by veins and irregular-shaped masses of quartz along bedding-plane faults. The quartz veins contain traces of uranium-bearing minerals.

The mica-schist that underlies the claim area is a light-gray to bluish, fine-grained, highly fissile rock. It is near the middle of a thick series of schists about 3 miles wide and over 10 miles long that are bounded on the north and south by younger igneous rocks.

Foliation and bedding in the schist strike about N. 50° W. and dip about 70° NE. The schist is cut by numerous bedding-plane faults of short strike length. Locally these faults contain veins and irregular masses of quartz from a few inches to as much as 50 feet thick. It is within these veins, and in the brecciated rock along the faults, that the uranium deposits occur.

ORE DEPOSITS

The uranium deposits consist of traces of uranium-bearing material in quartz veins and in altered schist breccia along bedding-plane faults in mica-schist.

No uranium minerals have been observed in even the most highly radioactive material. It is probable that the traces of uranium-bearing mineral originally present in the rock were contained in pyrite. Limonite resulting from the oxidization of pyrite crystals and veinlets in the quartz veins is slightly radioactive. Gangue minerals are quartz (both clear and smoky varieties), limonite, wavellite (?), mica, and pyrite. A green earthy to radiating crystalline mineral, tentatively identified as wavellite, is abundant in the vein material and coating the mica-schist near the deposit. This mineral was mistakenly referred to as copper-bearing in the application. It contains no copper, is optically close to wavellite but differs slightly in X-ray pattern from true wavellite and is probably an impure variety. Also abundant are well developed smoky quartz crystals in vugs and aggregates.

The most radioactive exposures are near a massive quartz outcrop at the top of Slate Mountain. A narrow quartz vein that strikes about N. 50° W. and dips about 70° NE several hundred feet west of the massive outcrop, and a brecciated zone in schist along a bedding-plane fault east of the outcrop, have been exposed by short open cuts at the most highly radioactive places.

The uranium-bearing concentrations are from a few inches to several feet in diameter, with no apparent control other than the presence of abundant limonite. The highest grade material that the

applicant assayed contained 0.10 percent equivalent and 0.16 percent chemical U_3O_8. This sample was hand picked and not representative of a minable ore body. Two samples cut across the face of the best exposure contained 0.01 and 0.02 percent equivalent U_3O_8.

ORE RESERVES

There are no reserves of ore grade (over 0.2 percent U_3O_8) material on the R.S.T. group of claims.

By careful mining and sorting of the most highly radioactive material, a few hundred pounds of material containing about 0.1 percent U_3O_8 may be produced.

Of far greater value than the uranium-bearing material are the well developed smoky quartz crystals that occur in the veins. These crystals, if carefully removed and handled, would find a ready and profitable market among universities, museums, mineral specimen dealers, and collectors.

Concentrations of uranium-bearing material found by exploratory trenches and open cuts are too small, low grade, and widely scattered to be mined economically. There is no geologic evidence to indicate the presence of larger or higher grade ore bodies below the present exposures or elsewhere on the claims. It is probable that any type of exploration will prove to be more costly than the value of the uranium-bearing material discovered.

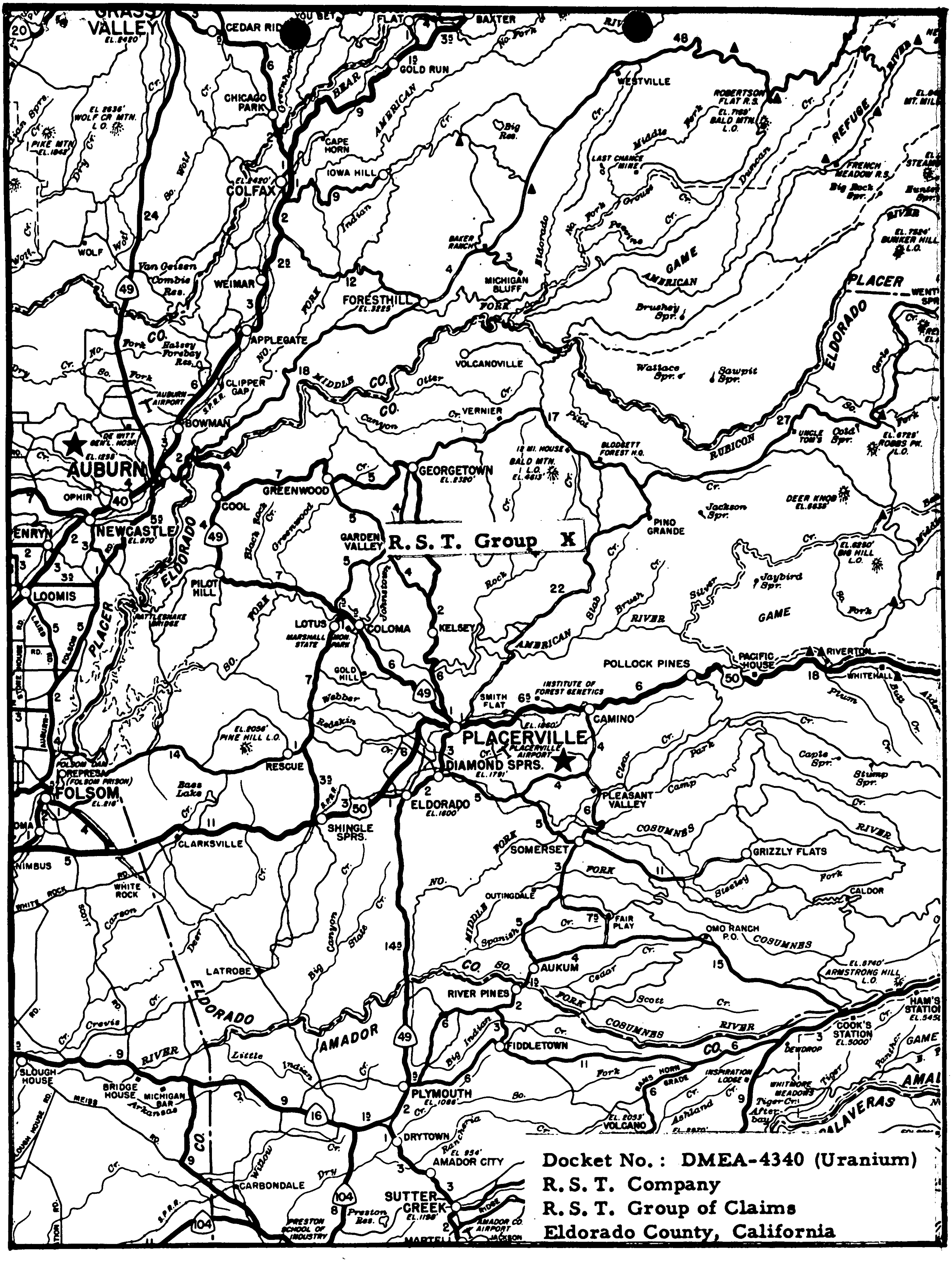

FIG. I LOCATION MAP CALIFORNIA

9-5-56

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

1605 Evans Avenue
Reno, Nevada

August 29, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4340 (Uranium)
R.S.T. Company
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El Doredo County, California
(Your letter dated July 6, 1956)

Enclosed are four copies of report by B. H. Sheahan, Bureau of Mines and H. K. Stager, Geological Survey on subject property recommending denial of DMEA exploration assistance.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Encl.

SRicker:gh
cc: R. M. Smith
File

Reviewed by
DMEA OPERATING COMMITTEE
9-7-56
(date)

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-4340 (Uranium)
R.S.T. Company
R.S.T. Group of Claims
El Dorado County, California

By

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

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

August 29, 1956

9-7-56
(date)

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ILLUSTRATIONS

Fig. 1 - LOCATION MAP, R.S.T. Group of Claims, Eldorado County, California

INTRODUCTION

The R. S. T. Company, P. O. Box 743, Placerville, California, applied for Government assistance in a $1,825.00 program under the Defense Minerals Exploration Administration, docket DMEA-4340, to explore for uranium on the R. S. T. group of claims, El Dorado County, California.

A field examination was requested by the Operating Committee on July 6, 1956, and was made by B. W. Sheahan, U. S. Bureau of Mines, and H. K. Stager, U. S. Geological Survey, on July 17, 1956, accompanied by Joseph D. Ronzone, Carl Sheedy, and A. Dale Thomas, who are partners in the applicant company. The applicants proposed to explore for minable uranium ore bodies by 50 feet of drifting along a quartz vein.

CONCLUSIONS AND RECOMMENDATIONS

The R. S. T. uranium deposit consists of small concentrations of sparsely mineralized material along quartz veins and fractures in mica schist. The results of the examination indicate that the deposit may contain numerous small concentrations of low grade material similar to those that have been exposed but that the grade is too low and the concentrations are too small and widely scattered to be economically mined.

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

LOCATION, ACCESSIBILITY AND LOCAL FACILITIES

The R.S.T. group of claims are in the Slate Mountain Mining District, in sections 6 and 7, T. 11 N., R. 12 E., M.D.B.&M., El Dorado County, California (fig. 1).

To reach the Hope #3 claim from Placerville, California, follow State Highway 49 northerly 0.7 mile, turn right on Georgetown road 3.1 miles, turn right on graded county road and go easterly 10.0 miles to road junction, turn left and follow road northerly 3.5 miles toward U.S. Forest Service, Slate Mountain Lookout Tower, turn left on a very steep, dusty, jeep trail 0.3 mile to the Hope #3 adit at an altitude of 3700 feet.

Placerville, California, the nearst source of labor and supplies, is 17.6 miles by road.

Water for domestic purposes is obtained on the property.

HISTORY AND PRODUCTION

Traces of radioactive mineralization were discovered in December 1955 by A. Dale Thomas and Carl Sheedy. There has been no production. Mr. Joseph D. Ronzone is now doing the annual assessment work.

The property is owned by the applicants and includes eight unpatented mining claims which are recorded at Placerville, California.

Name of Claim	Date located	Book	Page
Suzy Q	1/31/56	33	264
Gi-Gi #1	2/7/56	33	266
Gi-Gi #2	2/7/56	33	267
Hope #2	2/18/56	33	279
Hope #3	2/29/56	33	289
Hope #4	3/25/56	33	325
Dark Canyon #2	5/1/56	33	377
May Day	5/1/56	33	331

All of the partners have mining experience. Carl Sheedy is a real estate broker and A. Dale Thomas is in the insurance business.

DEVELOPMENT

The Hope #3 claim is developed by a 15 foot trench and a 5 foot drift on a quartz vein. Location workings include a few other shallow prospect pits 5 to 10 feet deep.

A small tool shed near the drift is the only surface improvement.

A list of available equipment is as follows:

Item	Condition
1 Air compressor, 105 cfm, portable (rented)	Good
1 Jackhammer, hoses, and steel	Fair
1 Truck, 1/2 ton	Poor
Miscellaneous hand tools	Fair

GENERAL GEOLOGY

The oldest rocks in the claim area are mica schists of the Calaveras formation of Carboniferous age. These rocks are cut by veins and irregular-shaped masses of quartz along bedding-plane faults. The quartz veins contain traces of uranium-bearing minerals.

The mica-schist that underlies the claim area is a light-gray to bluish, fine-grained, highly fissile rock. It is near the middle of a thick series of schists about 3 miles wide and over 10 miles long that are bounded on the north and south by younger igneous rocks.

Foliation and bedding in the schist strike about N. 50° W. and dip about 70° NE. The schist is cut by numerous bedding-plane faults of short strike length. Locally these faults contain veins and irregular masses of quartz from a few inches to as much as 50 feet thick. It is within these veins, and in the brecciated rock along the faults, that the uranium deposits occur.

ORE DEPOSITS

The uranium deposits consist of traces of uranium-bearing material in quartz veins and in altered schist breccia along bedding-plane faults in mica-schist.

No uranium minerals have been observed in even the most highly radioactive material. It is probable that the traces of uranium-bearing mineral originally present in the rock were contained in pyrite. Limonite resulting from the oxidization of pyrite crystals and veinlets in the quartz veins is slightly radioactive. Gangue minerals are quartz (both clear and smoky varieties), limonite, wavellite (?), mica, and pyrite. A green earthy to radiating crystalline mineral, tentatively identified as wavellite, is abundant in the vein material and coating the mica-schist near the deposit. This mineral was mistakenly referred to as copper-bearing in the application. It contains no copper, is optically close to wavellite but differs slightly in X-ray pattern from true wavellite and is probably an impure variety. Also abundant are well developed smoky quartz crystals in vugs and aggregates.

The most radioactive exposures are near a massive quartz outcrop at the top of Slate Mountain. A narrow quartz vein that strikes about N. 50° W. and dips about 70° NE several hundred feet west of the massive outcrop, and a brecciated zone in schist along a bedding-plane fault east of the outcrop, have been exposed by short open cuts at the most highly radioactive places.

The uranium-bearing concentrations are from a few inches to several feet in diameter, with no apparent control other than the presence of abundant limonite. The highest grade material that the

applicant assayed contained 0.10 percent equivalent and 0.16 percent chemical U_3O_8. This sample was hand picked and not representative of a minable ore body. Two samples cut across the face of the best exposure contained 0.01 and 0.02 percent equivalent U_3O_8.

ORE RESERVES

There are no reserves of ore grade (over 0.2 percent U_3O_8) material on the R.S.T. group of claims.

By careful mining and sorting of the most highly radioactive material, a few hundred pounds of material containing about 0.1 percent U_3O_8 may be produced.

Of far greater value than the uranium-bearing material are the well developed smoky quartz crystals that occur in the veins. These crystals, if carefully removed and handled, would find a ready and profitable market among universities, museums, mineral specimen dealers, and collectors.

Concentrations of uranium-bearing material found by exploratory trenches and open cuts are too small, low grade, and widely scattered to be mined economically. There is no geologic evidence to indicate the presence of larger or higher grade ore bodies below the present exposures or elsewhere on the claims. It is probable that any type of exploration will prove to be more costly than the value of the uranium-bearing material discovered.

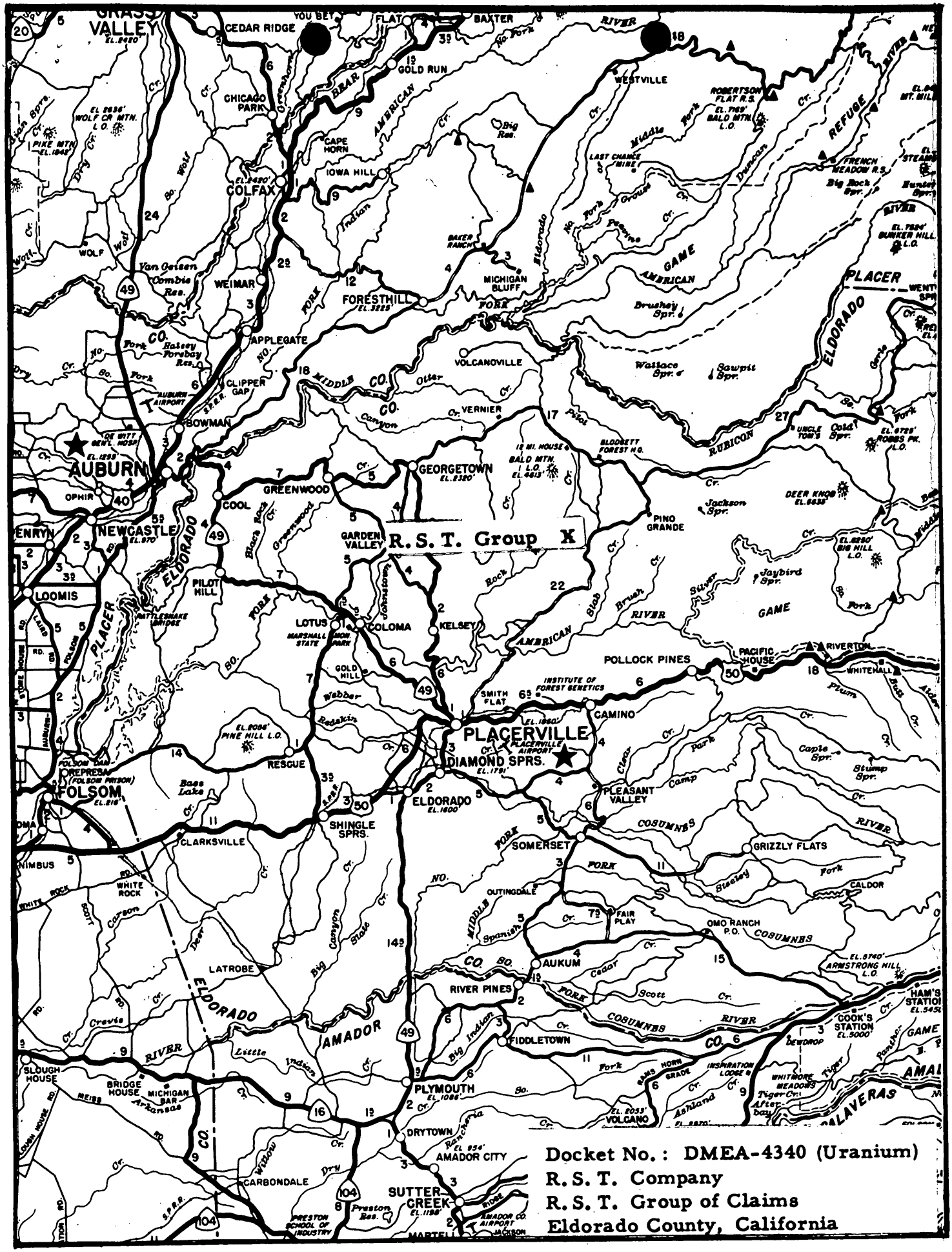

FIG. 1 LOCATION MAP CALIFORNIA

700

FILE COPY
Surname:
FLKnouse
GCSelfridge

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

JUL 6 1956

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

Re: Docket No. DMEA-430 (Uranium)
R. S. T. Company
R. S. T. Group of Claims
El Dorado County, California

Dear Mr. Ricker:

The captioned application is referred to your office for either a field examination and report on the proposed project or the Field Team's recommendations based on information available to your office. A copy of the application was retained by your office.

Enclosed are copies of memoranda, dated June 21 and 27, 1956, from Mr. T. H. Kiilsgaard, USGS, and Mr. John E. Crawford, USBM, respectively, relating to the subject project.

If the Field Team recommends an exploration program, we will require, in addition to the usual information, the following:

1. Nine copies of a map showing mineralized exposures, with sample locations and assay values (described in the application and any additional samples taken by the examining team), and recommended work, all in relation to boundaries of all claims to be included in a contract.

2. Bids from three contractors, if drilling is recommended and is to be done by an independent contractor.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

FLKnouse/izm 7-2-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

APPROVED:

/s/ Robert W. Geehan
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

700

FILE COPY
Surname:
F L Knouse
Dutton
Chapman
Schmidt

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

JUL 6 - 1956

R. S. T. Company
Post Office Box 743
Placerville, California

Re: Docket No. DMEA-4340 (Uranium)
R. S. T. Group of Claims
El Dorado County, California

Gentlemen:

The application for assistance in exploring your property, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division 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,

G. O. Mittendorf

Administrator

FLKnouse/ixm
~~FLKnouse/ixm~~ 7-2-56

cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
DMEA Field Team, Reg. II (2)

6/28/56

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

June 27, 1956

RECEIVED
JUN 28 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for Assistance, DMEA Docket 4340, R.S.T. Company, El Dorado County, Calif.

I have reviewed the attached application for assistance DMEA Docket 4340, R.S.T. Company, El Dorado County, Calif., dated June 13, 1956, and received in this office June 15. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant has requested Federal assistance to explore for uranium on 8 unpatented mining claims located in Sections 6 and 7, T. 11 N., R. 12 E., Slate mining district, El Dorado County, Calif. The exploration project consists of 50 feet of drifting and the total estimated cost of the project is $1,825.

It is my understanding that the Commission has examined the property and they have indicated that prospects in the area should be continued.

It would be advisable to refer the application to the field for appropriate action and to request the field to consult with A. E. Granger, Area Manager, Salt Lake City office, AEC.

John E. Crawford
John E. Crawford

Attachment

6/22/56 ai

IN REPLY REFER TO:

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

RECEIVED
JUN 22 1956

June 21, 1956

Memorandum

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

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of application, R.S.T. Property, El Dorado Co., Calif., DMEA Docket 4340.

The applicant proposes a rather indefinite 3-stage exploration program to test a radioactive quartz vein. The first stage is to consist of 50 feet of drift, starting on the Hope No. 3 claim and heading toward the "quartz blowout" on the Suzy Q claim. Other stages are to be contingent on the findings in Stage I. Estimated costs are given only for Stage I and these are quoted at $1,825.00.

There is little evidence given to support the possibility of this property containing significant amounts of uranium ore, and in all probability it will not qualify for a DMEA contract. Nevertheless, in fairness to the applicant, the property should be examined by the field team, who should give DMEA their recommendations on the applicant's proposal.

I recommend the application be referred to the field for further appraisal.

T. H. Kiilsgaard

T. H. Kiilsgaard

IN REPLY REFER TO:

RECEIVED
JUN 22 1956

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

June 21, 1956

Memorandum

To: [illegible] Ellis, Defense Minerals Exploration Administration

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of application, [illegible] Property, El Dorado Co., Calif., DMEA Docket 4340.

The applicant proposes a rather indefinite 3-stage exploration program to test a radioactive quartz vein. The first stage is to consist of 50 feet of drift, starting on the Hope No. 3 claim and heading toward the "quartz blowout" on the Lucky [illegible] claim. Other stages are to be contingent on the findings in stage 1. Estimated costs are given only for stage 1 and these are quoted at $1,835.00.

There is little evidence given to support the possibility of this property containing significant amounts of uranium ore, and in all probability it will not qualify for a DMEA contract. Nevertheless, in fairness to the applicant, the property should be examined by the field team, who should give DMEA their recommendations on the applicant's proposal.

I recommend the application be referred to the field for further appraisal.

THKiilsgaard:btr
6/21/56

T. H. Kiilsgaard

cc: Director's reading file
Branch reading file (4212)
DMEA(3)
Chron. file
Docket file
J. S. Crawford, 3641
J. C. Hosted, 3210

June 15, 1956

R. S. T. Company
P.O. Box 743,
Placerville, California

Subject: DMEA-4340
Re: Exploration Assistance
R.S.T. Group

Gentlemen

The receipt of your application dated June 13, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4340 and referred to the Rare & Misc. Metals.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

June 15, 1956

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
-4340 R.S.T. Company

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

R 2n Ea

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

RECEIVED
JUN 15 1956

1605 Evans Avenue
Reno, Nevada

June 13, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Uranium)
R. S. T. Company
RST Group
El Dorado County, California

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

S. Ricker

Attach.

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

RECEIVED
JUN 15 1956

1605 Evans Avenue
Reno, Nevada

June 13, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Uranium)
R. S. T. Company
RST Group
El Dorado County, California

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

S. Ricker

Attach.

SRicker:gh
cc: R. M. Smith
File

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN 15 1956

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. 4340
Metal or Mineral URANIUM
Date Received 6/15/56
Estimated Cost $1825
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: R.S.T. Company, P.O. Box 743, Placerville, California, a mining partnership.
Joseph D. Ronzone, 132 Cedar Ravine, Placerville, California
Carl Sheedy, P.O. Box 407, Placerville, California
A. Dale Thomas, P.O. Box 743, Placerville, 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 8 quartz claims in Sections 6 & 7, T11N, R 12 E, M.D.B. & M., Slate Mt. Mining District, El Dorado Co., California
See attached sheet for list of claims and map.

(*b*) State any mine name by which the property is known. R.S.T. Group

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

(*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

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

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 Uranium

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

(*c*) The work will start within 10 days and be completed within 2 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 (part) [ ] Use of equipment owned by you [X] Other (labor)

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 June 13, 1956

R.S.T. Mining partnership
(Applicant)

By Joseph D. Ramyna
Carl Shreedy
Dale Thomas

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
JUN 1 5 1956

Application for DMEA loan.

Ronzone-Sheedy-Thomas
(RST Group)

Addenda

3 (a) and (f) The following listed claims are in the "RST" group and are included in the exploration project:

Name of claim	Date located	Recorded in: Book#	Page#	Date discovery work completed	Recorded in: Book#	Page#
Suzy Q	Jan. 31, 56	33	264	3/28/56	33	330
Gi-Gi #1	2/7/56	33	266	3/28/56	33	328
GiGI #2	2/7/56	33	267	4/2/56	33	380
Hope #2	2/18/56	33	279	5/15/56	33	414
Hope #3	2/29/56	33	289	4/24/56	33	365
Hope #4	3/25/56	33	325			
Dark Canyon #2	5/1/56	33	377			
May Day	5/1/56	33	381			

Also see attached sketch of claims.
Addenda

4 (a) The following exploration work has been done on the named claims of the "RST" group:

I. Suzy Q Claim: An open cut across the vein, starting on the foot wall side and extending 15 ft. toward the hanging wall. The cut has a vertical depth of over 15 ft. The hanging wall has not been encountered yet, so width of the vein is not yet known. Open for inspection. Two 10 ft. drill holes were also placed on the vein about 50 ft. Northerly from the cut. These holes were tested with a counter probe. The holes were in vein material until they bottomed.

II. Gi-Gi #1: An open cut was run into the vein, starting at the foot wall and extending about 15 ft. into the vein. The hanging wall has not been reached. Vertical depth of the cut is about 10 ft. Open for inspection.

III: Gi-Gi #2: An open cut into vein. About 15 ft. long, and vertical depth 10 ft. Some quartz encountered.

IV. Hope #2: A 10 ft. shaft on vein. Open for inspection.

V. Hope # 3: A trench 20 ft. long across vein and at footwall side of trench, a shaft 10 ft. deep. Open to inspect.

VI. Hope #4: A shaft 10 ft. deep Open for inspection.

VII. Dark Canyon #2 No excavations yet.

VIII. May Day: A 10 ft. shaft. Open for inspection.

4 (b) There is no known past or current production.

4 (c) The property is in a slate belt, of the "Calaveras" formatio (carboniferous) and is near the contact of a granodiorite formation. The area appears to have been severely faulted, as there is a sheeted zone and an uplift, which is now the Slate Mountains, extending several miles in a Northwesterly direction and Southeasterly direction. One of the highest points of this ridge is at the Slate Mountain Lookout Tower, where a massive quartz blowout occurs, perhaps 100 ft. across. There appear to be at least three veins, running parallel, with a NW-SE strike, and other numerous veinlets or seams.

The vein material has been described as "weathered limonitic quartz rock" by the U.S. Bureau of Mines, Reno, Nevada. A definite copper stain and showing appear in the vein, besides covering over numerous layers of slate. The quartz crystals taken from the discovery holes are black to jet black, turning clear when heat is applied.

On April 4, 1956, Mr. Rambocek, cheif, Exploration Branch, Region II OF the A.E.C. inspected our claims. At that time, we had shallow holes on only the Suzy Q and GiGi claims. He seemed favorably impressed with the showings. Since then we have opened more cuts, and to date, our Hope #3 claim prospects the best. (See sketch.)

A hand picked sample from near the surface at this cut showed "only a trace of radioactivity" from Bureau of Mines, Reno (letter dated April 13, 1956, ref. A-16560.)

Two hand picked samples from a 10 ft. depth from this cut showed e U308,0.03, and e 0.10 from Reno (letter May 8,1956, ref. B-16584) and c. 0.16 Salt Lake City (A.E.C.) and chemical 0.089 from Abbott Hanks, San Francisco. (See attached assays.)

All openings on these claims have shown increased radio-activity with depth, and increased U content with depth.

4 (d) Accessability of project-

I. Access roads: The property is reached by a secondary road in fair condition, about 17 miles from Placerville, California. This road is adequate for light traffic only. The property may also be reached by another secondary road, via Chili Bar, about 22 miles from Placerville. This is a heavy duty road and is used by heavy logging trucks. At the property, the following claims have roads to or near the present exploration cuts: Suzy Q, GiGi #1, GiGi #2, Hope #2, Dark Canyon #2, and May Day. We are now constructing 1/4 mile of access road to the cut on Hope #3, which is the site of our start for proposed exploration work. Hope #4 claim is at present inaccessable by road.

II. Distance to Placerville railhead (Southern Pacific Railroad) is about 22 miles by road. Placerville is also the nearest major residence center and supply center.

III. Availability of manpower: Adequate. El Dorado County is in the center of the Mother Lode Gold Mining belt, and there are many experienced miners living in the county. Also, a branch of the California Dep't. of Employment is maintained in Placerville. This department furnished free employment services and has resources of all state offices to fill requests for labor. Materials, such as timber heeded, are available on the claims.

4 (d) (cont'd)
Most equipment is readily available from Sacramento, if not obtainable in Placerville.
Supplies are available form Placerveille supply houses, and if unavailable locally, can readily be obtained from sources in Sacramento, 40 miles from Placerville.
Water for domestic purposes is obtainable from a year round spring about 1/4 mile from Suzy Q claim. If large amounts of water were needed for mining it would need to be hauled by truck from a creek about 4 miles away. Some places on the claims are "springy" and indicate water would be developed if any sinking is done.
Power. Heavy electric power has been brought to the saw mill at Moquito, about 6 or 7 miles distant from property.

5 (b) Proposed exploration work.
Phase I. To drift 50 ft. along the vein southeasterly, starting at the present cut on Hope #3 and drifting southeasterly towards quartz blow-out on Suzy Q claim. Size of drift to be 6 ft. height, 3 ft. wide at shoulder and 4 ft. wide at floor, in the clear. The rock appears to be good standing ground, so it is to be anticipated that only 10 ft. or so of drift at portal will require timbering.

It is proposed to take assays from averaged samples in the face of drift every 5 ft. and to drill 5 or 6 ft. probe holes on both sides of drift at 5 ft. intervals. This will give a width of 15 to 18 ft. that can be checked with a counter.

It is proposed to employ a bulldozer to make a flat working surface at portal of drift and to erect a small tool house at the site. (See estimate of costs.)

See attached sketch for details.

Phase II. (To be undertaken if phase 1. is favorable.)

Based on degree of progress toward pay ore, it is proposed to either extend the 50 ft. drift another 50 ft. or commence a winze from the end of the drift, using the same sampling procedure as outlined in phase 1. Whether to drift or sink to be based on decisions to be made at that time.

Information abtainable indicates an oxidized zone in the general area of not more than 60 ft. One gold prospect less than 2 miles from our property is reported to have encountered sulphides at a depth of 30 ft. It is anticipated that when the sulphide zone is reached, a uranium enrichment will be found, because it is believed that the present relatively low uranium content found in the oxidized zone of the veins is due to the leaching out of the uranium by released sulphuric acid of the oxidized iron sulphides and subsequent washing away of the uranium by ground waters.

Phase III.(To be undertaken if phases 1. and II. ARE FAVORABLE.)

Sink a shaft at least 30 ft. deep, at site of present cut on Suzy Q claim. This will help to prove the ore body explored by Hope #3 drift, as the vein on the surface seems to be the same.

Phase IV. Drift northwesterly from a point southeast of present cut on GiGi #1 claim, to expose more of vein on this claim.

Alternate phase IV. To sink a shaft at least 30 ft. at a site on Hope #4 claim, where the vein shows a surface width of about 20 ft. and appears to be the same vein as that on Hope #3.

4 (d) Operating experience of applicants

Joseph D. Ronzone- Familiar with geologic fromations from many years experience as oil well specialist in exploration work. Also 1 1/2 years as leasor of gold mine in El Dorado County. Experienced in practical mining, including drilling, explosives, etc. Also worked 1 year Morning Star copper mine in El Dorado County doing general mining work.

Dale Thomas - 10 years hard rock mining experience as miner, timberman, day's pay, and contract work, all phases, including practical experience drifting, cross cuts, raises, sinking, stoping. Includes 1 1/2 years as leasor on gold prospect in El Dorado County and 1/2 year as leasor in Nevada County, California.

Carl Sheedy- Familiar with mining procedures and problems. Worked in heavy construction with father (R.C. Sheedy, Heavy Construction) approximately 10 years. Helped build Keystone Mill, Chloride, Arizona. Stayed on one year as mill man. Worked start to finish on construction of Westvaco Chemical (Newark, California). Stayed 2 years as in charge of store rooms and ass't. purchasing. Associated past 10 years with F.V. Phillips, uncle, president and general manager of Volo Mining Company, largest mill on Mother Lode, handling real estate and some mining property. Have just consumated lease agreement for large silica deposit, to Hanna Ore and Coal Company, Cleveland Ohio. (Oregon Branch)

Ronzone and Thomas plan to supervise operations.

6. Estimate of costs (Phase 1.)

(a) Independent contracts -	None
(b) Labor, supervision, consultants	
1. Labor- 2 miners, 15 shifts each @$2.50 per hr.	$600.00
1 dozer and operator, 8 hrs. @ $12.00 per hr.	96.00
2. Supervision	none
3. Consulting engineer's fee @ $100 per day	200.00
Total	$896.00
(c) Operating material and supplies	
1 water tank, 100 gal.	40.00
70 ft. pipe, 1/2 "	10.50
50 ft. pipe, 1 "	15.00
pipe fittings, misc.	8.00
8 cases dynamite @ $12.00	96.00
Electric caps	12.00
Carbide, 25 lbs.	10.00
1 steel"slick sheet", 4x8,(est.)	10.00
150 gal. gasoline @ $ .30	45.00
2 gal. oil @ $1.25	2.50
54 ft. timbers, 8x8 red fir	54.00
57 ft. lagging. 2x10 red fir	20.00
Leyner shell, post and arm (est.) (used)	50.00
1 wheel barrow	30.00
	$403 .00

6. Estimate of costs (phase 1.) (continued)

(b) The actual cost for labor is ($896-$200 engineer's fee)		$696.00
(c) operating material and supplies		403.00
(d) operating equipment		138.50
(e) rehabilitation and repairs		00.00
(f) new buildings		00.00
(g) Misc. (repairs and maintenance)		314.00
(h) Contingencies (possibly none)		00.00
	Total	$1551.50

50 ft. of drift at $30.00 per foot equals $1500.
Therefore it is recommended that the work be undertaken on a unit cost basis of $30 per foot, plus the items listed below:

50 ft. drift		$1500.00
(b) engineer's report		200.00
(h) contingencies		125.00
	Grand total	$1825.00

7 (b) As the total cost of phase 1. appears to be $1825.00, our 25% share would be $456.25.

Mr. Ronzone plans to devote from 2 to 3 weeks of labor (15 days @ $20.00)	$300.00
Mr. Thomas plans to devote from 1 to 2 weeks of labor (10 days @ $20.00)	$200.00
Total	$500.00

If it should not be practicable to put in the man hours outlined above, we have miners available, and we will contribute any balance of our share not covered by labor by money contribution.

It is suggested the cost bases for phases II, ~~III~~., and IV. be postponed until near the end of phase 1., so that a more realistic appraisal of cost based on phase 1. experience may be utilized.

FORM A-8 Application for DMEA loan

Ronzone-Sheedy-Thomas (RST Group)

(Hope #3 claim)

REPORT OF ASSAY

RECEIVED JUN 15 1956

ABBOT A. HANKS, INC.

ASSAYERS, CHEMISTS, ENGINEERS

624 SACRAMENTO STREET

SAN FRANCISCO, May 11, 1956

DEPOSITED BY Dale Thomas
Box 743
Placerville, California

SAMPLE OF ORE

Labty. No.	Mark	GOLD, per ton of 2,000 lbs.		SILVER, per ton of 2,000 lbs.		Percentages
		Troy Ounces	Value @ $35.00 oz.	Troy Ounces	Value @	
97730	#16-H3				$	URANIUM OXIDE 0.089 %

NOTE: - Small amount of Rare Earths present.

bob

ABBOT A. HANKS, INC.
Original Signed by
MARTIN P. QUIST

FORM A-8

Application for DMEA loan

Ro[illegible]one - Sheedy - Thomas
(R S T - Group)

REPORT OF ASSAY

ABBOT A. HANKS, INC.

ASSAYERS, CHEMISTS, ENGINEERS
624 SACRAMENTO STREET
SAN FRANCISCO,

RECEIVED JUN 15 1956

February 13, 1956

DEPOSITED BY Dale Thomas
Box 743
Placerville, California

SAMPLE OF ORE

Labty. No.	Mark	GOLD, per ton of 2,000 lbs.		SILVER, per ton of 2,000 lbs.		Percentages
		Troy Ounces	Value @ $35.00 oz.	Troy Ounces	Value @	
					$	URANIUM OXIDE
94048	#5					0.041 %

ABBOT A. HANKS, INC.

Martin P. Quist

bob

6/1/56 Crawford

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bu[illegible] 42-R1035.2.

RECEIVED
JUN 15 1956

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. 4340
Metal or Mineral URANIUM
Date Received 6/15/56
Estimated Cost $1825
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: R.S.T. Company, P.O. Box 743, Placerville, California, a mining partnership.
Joseph D. Ronzone, 132 Cedar Ravine, Placerville, California
Carl Sheedy, P.O. Box 407, Placerville, California
A. Dale Thomas, P.O. Box 743, Placerville, 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 8 quartz claims in Sections 6 & 7, T11N, R 12E, M.D.B. & M., Slate Mt. Mining District, El Dorado Co., California.
See attached sheet for list of claims and map.

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

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

(*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

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

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 Uranium

(*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 ten days and be completed within two 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 (part) [ ] Use of equipment owned by you [X] Other (labor)

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 June 13, 1956

B.S.T. Mining Partnership
(Applicant)

By Joseph D. Lozyna
Dale Thomas
Carl Steedy

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

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JUN 1 5 1956

Application for DMEA loan.

Ronzone-Sheedy-Thomas
(RST Group)

Addenda

3 (a) and (f) The following listed claims are in the "RST" group and are included in the exploration project:

Name of claim	Date located	Recorded in: Book#	Page#	Date discovery work completed	Recorded in: Book#	Page#
Suzy Q	Jan. 31,56	33	264	3/28/56	33	350
Ci-Ci #1	2/7/56	33	266	3/28/56	33	328
CiCI #2	2/7/56	35	267	4/2/56	33	380
Hope #2	2/18/56	33	279	5/15/56	33	414
Hope #3	2/29/56	33	289	4/24/56	33	365
Hope #4	3/25/56	33	325			
Dark Canyon #2	5/1/56	33	377			
May Day	5/1/56	33	381			

Also see attached sketch of claims.
Addenda

4 (a) The following exploration work has been done on the named claims of the "RST" group:

I. Suzy Q Claim: An open cut across the vein, starting on the foot wall side and extending 15 ft. toward the hanging wall. The cut has a vertical depth of over 15 ft. The hanging wall has not been encountered yet, so width of the vein is not yet known. Open for inspection. Two 10 ft. drill holes were also placed on the vein about 50 ft. Northerly from the cut. These holes were tested with a counter probe. The holes were in vein material until they bottomed.

II. Ci-Ci #1: An open cut was ran into the vein, starting at the foot wall and extending about 15 ft. into the vein. The hanging wall has not been reached. Vertical depth of the cut is about 10 ft. Open for inspection.

III: Ci-Ci #2: An open cut into vein. About 15 ft. long, and vertiwal depth 10 ft. Some quartz encountered.

IV. Hope #2: A 10 ft. shaft on vein. Open for inspection.

V. Hope # 3: A trench 20 ft. long across vein and at footwall side of trench, a shaft 10 ft. deep. Open to inspect.

VI. Hope #4: A shaft 10 ft. deep Open for inspection.

VII. Dark Canyon #2 No excavations yet.

VIII. May Day: A 10 ft. shaft. Open for inspection.

4 (b) There is no known past or current production.

4 (c) The property is in a slate belt, of the "Calaveras" formatio (carboniferous) and is near the contact of a granodiorite formation. The area appears to have been severely faulted, as there is a sheated zone and an uplift, which is now the Slate Mountains, extending several miles in a Northwesterly direction and Southeasterly direction. One of the highest points of this ridge is at the Slate Mountain Lookout Tower, where a massive quartz blowout occurs, perhaps 100 ft. across. There appear to be at least three veins, running parallel, with a NW-SE strike, and other numerous veinlets or seams.

The vein material has been described as "weathered limonitic quartz rock" by the U.S. Bureau of Mines, Reno, Nevada.A definite copper stain and showing appear in the vein, besides covering over numerous layers of slate. The quartz crystals taken from the discovery holes are black to jet black, turning clear when heat is applied.

On April 4, 1956, Mr. Hambocek, cheif, Exploration Branch, Region II of the A.E.C. inspected our claims. At that time, we had shallow holes on only the Susy Q and GiGi claims. He seemed favorably impressed with the showings. Since then we have opened more cuts, and to date, our Hope #3 claim prospects the best. (See sketch.)

A hand picked sample from near the surface at this cut showed "only a trace of radioactivity" from Bureau of Mines, Reno (letter dated April 13, 1956, ref. A-16560.)

Two hand picked samples from a 10 ft. depth from this cut showed e U3O8,0.03, and e 0.10 from Reno (letter May 8,1956, ref. D-16534) and C 0.16 Salt Lake City (A.E.C.) and chemical 0.009 from Abbott Hanks, San Francisco. (See attached assays.)

All openings on these claims have shown increased radio-activity with depth, and increased U content with depth.

4 (d) Accessability of project-

I. Access roads: The property is reached by a secondary road in fair condition, about 17 miles from Placerville, California. This road is adequate for light traffic only. The property may also be reached by another secondary road, via Chili Bar, about 22 miles from Placerville. This is a heavy duty road and is used by heavy logging trucks. At the property, the following claims have roads to or near the present exploration cuts: Susy Q, GiGi #1, GiGi #2, Hope #2, Dark Canyon #2, and May Day. We are now constructing 1/4 mile of access road to the cut on Hope #3, which is the site of our start for proposed exploration work. Hope #4 claim is at present inaccessable by road.

II. Distance to Placerville railhead (Southern Pacific Railroad) is about 22 miles by road. Placerville is also the nearest major residence center and supply center.

III. Availability of <u>manpower</u>: Adequate. El Dorado County is in the center of the Mother Lode Gold Mining belt, and there are many experienced miners living in the county. Also, a branch of the California Dep't. of Employment is maintained in Placerville. This department furnishes free employment services and has resources of all state offices to fill requests for labor. <u>Materials</u>, such as timber needed, are available on the claims.

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Most equipment is readily available from Sacramento, if not obtainable in Placerville.
Supplies are available form Placerville supply houses, and if unavailable locally, can readily be obtained from sources in Sacramento, 40 miles from Placerville.
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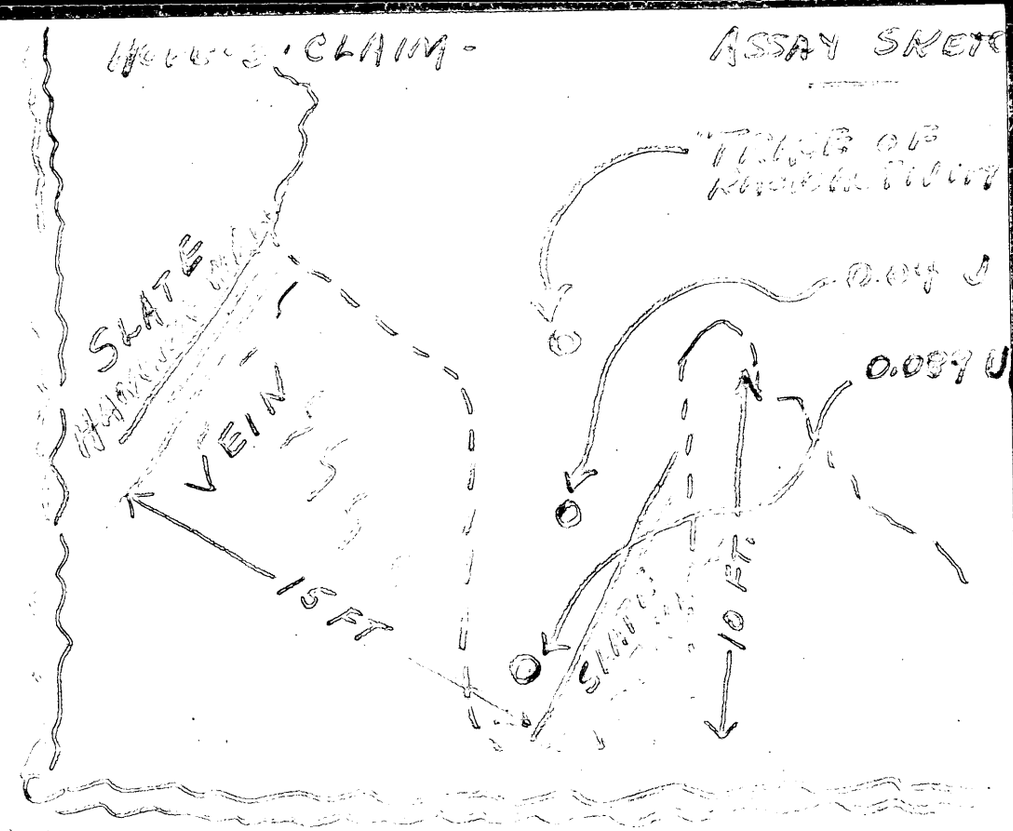
DMEA LOAN APPLICATION

ROMANCE - SLATE - TOWER



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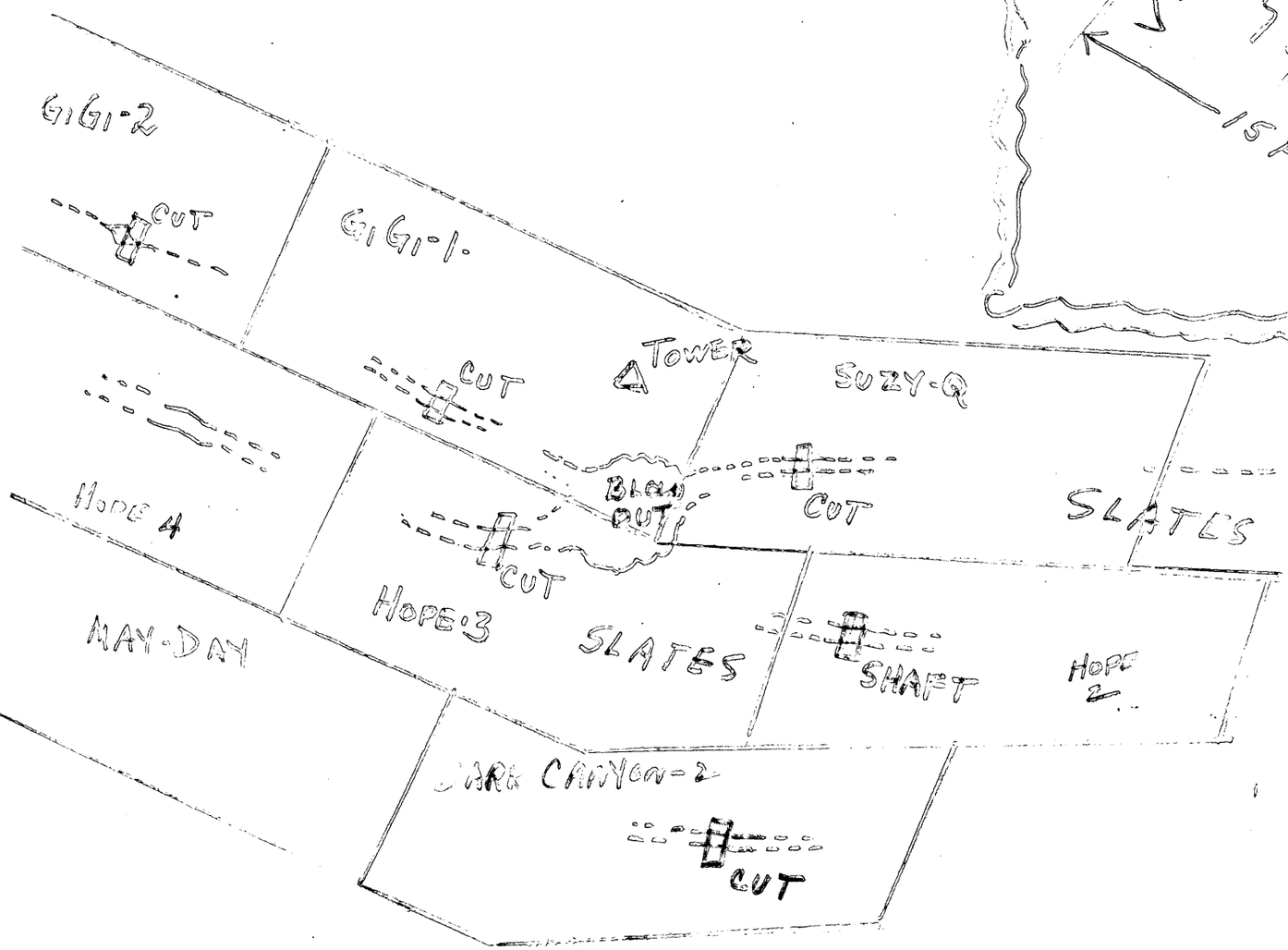
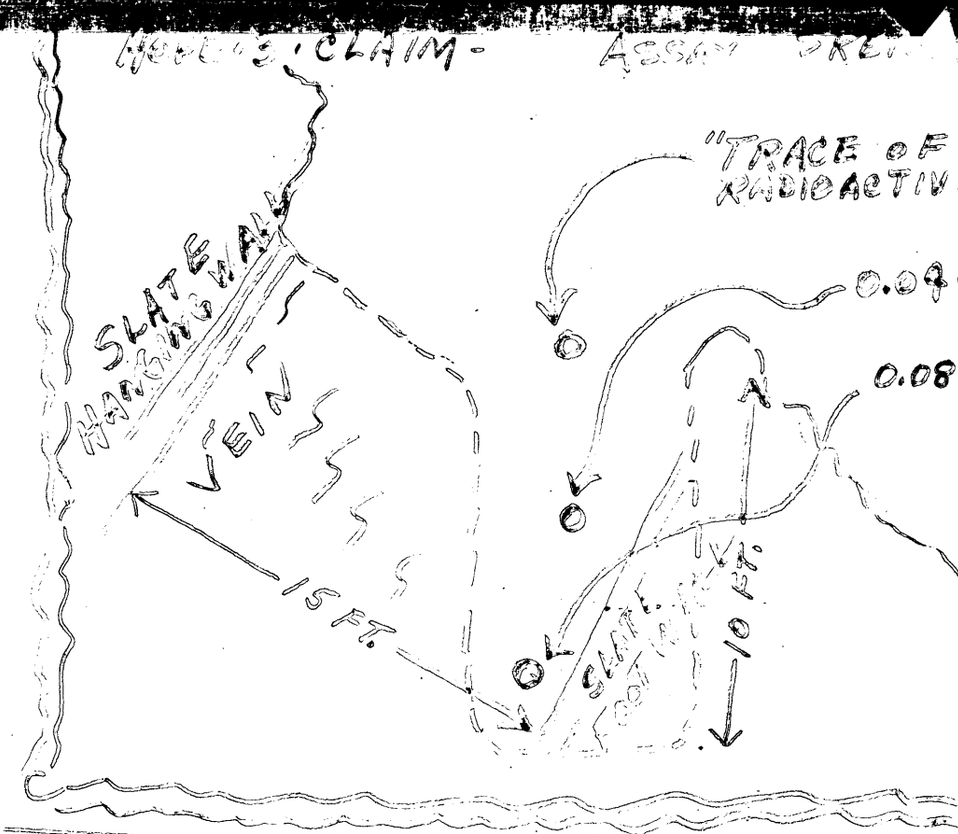
DMEA LOAN APPLICATION

RONZONE - SHEEDY - THOMAS





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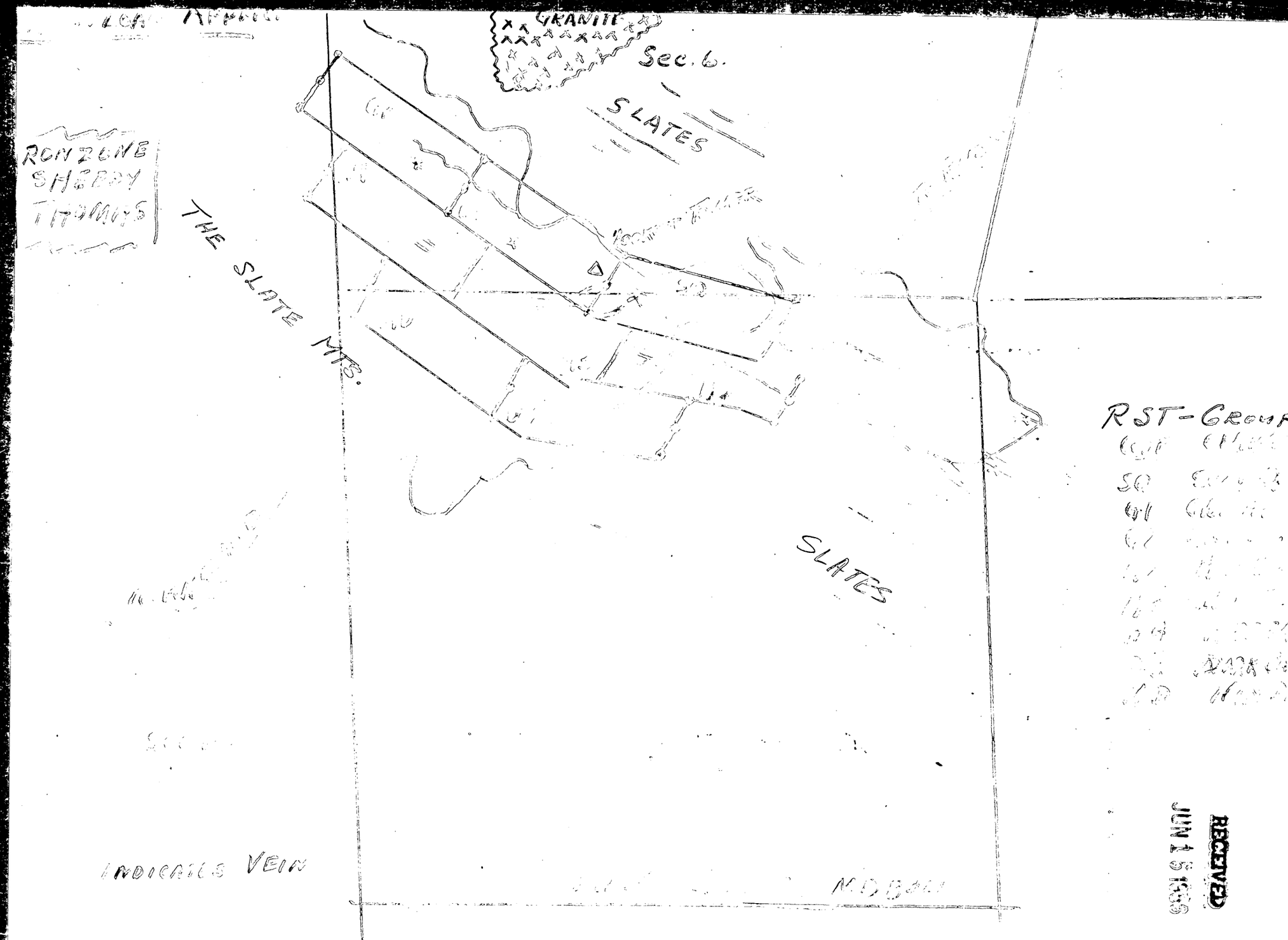

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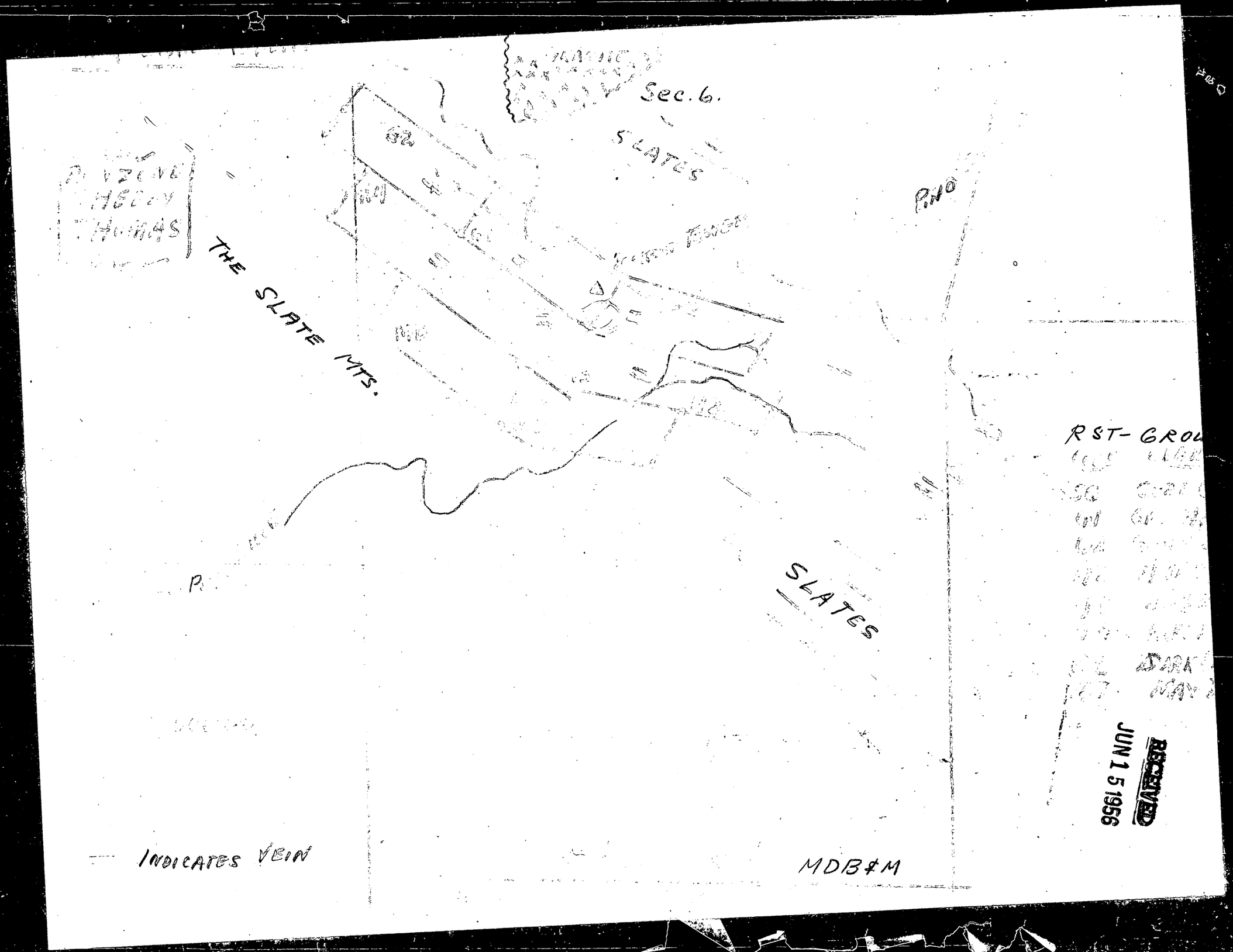
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