DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3680

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Cys to USBM and USGS.
This document has been recorded as

Exploration

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

Routing Slip

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CONTROLLED DOCUMENT

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Mineral Deposits Branch
4 Homewood Place
Menlo Park, California

C
O
P
Y

December 6, 1954

Mr. W. C. Holding
19 Campo Bello
Menlo Park, California

Dear Mr. Holding:

The samples of metamorphic rock from the September claims, Mono County, that you submitted to this office have been assayed for uranium content and the results (shown below) are being sent to you at the specific request of the U. S. Atomic Energy Commission

Sample No.	% uranium	% equivalent uranium	Description of sample
1	.037	.036	Gray metamorphic rock with molybdenite
2	.19	.21	Brownish-gray limonite-coated metamorphic rock with quartz

Sincerely yours,

/s/ Hal G. Stephens

Hal G. Stephens
Geologist

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Mineral Deposits Branch
4 Homewood Place
Menlo Park, California

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Sincerely yours,

Hal G. Stephens
Geologist

Surname 700

Murphy
Ellis
Crawford
Nelson
Geehan
Martin
Johnson

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

AUG 1 0 1955

Messrs. P. C. Hillen and
Wm. C. Holding
19 Campo Bello
Menlo Park, California

Re: Docket No. DMEA-3680 (Uranium)
September claims
Mono County, California

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington concerning your 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 to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FMurphy:am
8-3-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5222
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region II(2)

P. S. Herewith enclosed is the U. S. Geological Survey letter, dated December 6, 1954, which you requested to be returned.

R.C.G.

DOCKET COPY

Murphy

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.

August 3, 1955

Summary of Proposed Project

Object: Denial of application for an exploration project

Docket No.: DMEA-3680

Commodity: Uranium

Applicant: P. C. Hillen and Wm. C. Holding, a partnership
19 Campo Bello
Menlo Park, California

Property: Locaters and owners of "September" Nos. 1, 2, 3, and 4 mining claims in Sec. 19, T. 1 N., R. 25 E., M.D.B. and M. Mono County, California. Located in a recreation area of the Inyo National Forest.

Date of Application: February 5, 1955

Amount of Application: $9,401.00

Work Proposed and Estimated Cost:

a) Independent Contracts

6 core drill holes totaling 1200 feet @ $4.50/ft.	$5,400.00
60 feet drifting @ $30/ft.	1,800.00
Bulldozing road, 12 hrs. @ $20.00/hr.	240.00

b) Supervision and Labor

Foreman; 14 days @ $20.00/day	280.00
2 laborers, 14 days @ $12.00/ day each	336.00

c) Operating Material and Supplies

10 case dynamite, plus fuse & caps	150.00
100 gals. gasoline for compressor	35.00

d) Operating Equipment

Rental, compressor and drill accessories 18 days @ $20.00/day	360.00
Drill bits (carbon)	100.00
Allowance on applicant-owned pick-up truck, 20 days @ $10/each	200.00

f)	New buildings etc.	100.00
g)	Miscl., 20 assays @ $10/each	200.00
h)	Contingencies	200.00
	Total estimate cost of project	$9,401.00
	75% Government participation	$7,050.75

Field Team Report: Submitted July 8, 1955

Note: After fixing a date for the field examination, the applicant failed to meet the examiners.

Geology

The claims lie along the east edge of a large roof pendant of Paleozoic rocks which is surrounded by Cretaceous granitic rocks of the Sierra Nevada batholith. The rocks exposed within the claim boundaries are predominately quartzites interbedded with layers of calcareous hornfels and small lenses of tacite; granite crops out in the southeastern part of the property. The lens of tactite commonly contain traces of tungsten and molybdenum minerals. Locally the siliceous and calcareous rocks are stained by iron oxides. Bedding planes in the recrystalized rocks strike N. 0°-60° E. and dip 30° - 90° N. W.

Ore Deposits

No uranium minerals were seen or detected on the September claims but small amounts of powellite and molybdenite were identified. The background count of 0,03 - 0,05 MR/HR, registered on a Detectron Model DG-2 Geiger counter, was not exceeded anywhere on the property. The iron-stained zones, reported to contain the best radioactive material, showed no anomalous radiation.

The only workings on the property consist of a cut, six feet wide and two feet deep with a face ten feet high, blasted into the iron-stained outcrop a few feet from the discovery monument. A reading of 0.03 MR/HR was noted here, and a sample (S-363) was taken which assay a trace percent e U_3O_8.

Recommendation

"No anomalous radiation was noted on the property and no concentration of any strategic mineral was seen; therefore, the request for Government aid in the proposed program should be denied."

Commodity Committee Members' Comments:

U. S. Geological Survey - N. E. Nelson - July 15, 1955

Concurs in Field Team's recommendation of denial.

U. S. Bureau of Mines - J. E. Crawford - July 26, 1955

Comments misplaced. However in telephone conversation Mr. Crawford stated that he had recommended denial of application.

Rare and Miscellaneous Metals Division
F. M. Murphy

The application states that exploratory work consisting of trenching, vertical shaft, and blasting off faces of the outcrops had been completed. However, only the outcrop work was found by the examiners.

The applicant submitted a sample certificate which showed one sample of limonite-coated metamorphic rock assaying 0.21 e U_3O_8. However, the field examiners report that their radiometric instrument showed no anomaly for this type of rock found on the property.

The field examiners could not find any indication of radioactivity on the subject property. Because no target area for a drilling program has been indicated this Division concurs with the Field Team and Commodity Members that the subject application be denied.

It may be noted that the applicants after making a date to meet the field examiners at the property failed to present themselves.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

7/12/55 gh

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

RECEIVED
JUL 12 1955

1605 Evans Avenue
Reno, Nevada

July 8, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3680 (Uranium)
P. C. Hillen and William C. Holding
September Claims
Mono County, California

Reference is made to your letter of February 25, 1955 referring subject docket for field examination and recommendation.

Attached are four copies of a report by B. H. Sheahan, Bureau of Mines and E. H. Pampeyan, Geological Survey in which they recommend that application for exploration aid from DMEA be denied.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.
SRicker:gh
cc: R. M. Smith
File

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

RECEIVED
JUL 12 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-3680 - Uranium
F. C. Hillen and William C. Holding
September Claims
Mono County, California

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

E. H. Pampeyan
Geologist
U. S. Geological Survey

July 5, 1955

INTRODUCTION

Pursuant to an application to the Defense Minerals Exploration Administration for exploration aid by P. C. Hillen and Wm. C. Holding, an examination of the September Uranium claims was made by E. H. Pampeyan, Geological Survey and B. H. Sheahan, Bureau of Mines, on June 14, 1955.

Arrangement had been made with Mr. P. C. Hillen one of the owners to accompany the engineer and geologist during the examination, but he failed to keep his appointment.

The applicants had requested the Government to participate in an exploration program consisting of diamond drilling and tunneling, the total cost of which was estimated to be $9,401.00.

CONCLUSIONS AND RECOMMENDATIONS

The examination indicated that the area contained small lenses of tactite showing traces of tungsten and molybdenum minerals that were not of economic significance.

Uranium minerals were not detected and the background count of 0.03-0.05 MR/HR, on a Geiger counter was not exceeded at any point on the property.

There is no justification for the work proposed, and it is recommended that the request for a DMEA loan be denied.

east part of the property (fig. 2). The lenses of tactite commonly contain traces of tungsten and molybdenum minerals. Locally the siliceous and calcareous rocks are stained by iron oxides, probably derived from the oxidation of sulphides in the tactite lenses. Bedding planes in the recrystallized rocks strike N. 0°-60° E. and dip 30°-90° NW.

ORE DEPOSITS

No uranium minerals were seen or detected on the September claims but small amounts of molybdenite and powellite were identified. The background count of 0.03-0.05 MR/HR, registered on a Detectron Model DG-2 geiger counter, was not exceeded anywhere on the property. The iron-stained zones, reported to contain the best radioactive material, showed no anomalous radiation.

The only workings on the property consist of a cut six feet wide and two feet deep with a face ten feet high blasted into the iron-stained outcrop a few feet from the discovery monument (fig. 2). The fresh rock exposed in the cut is a fine-grained tactite, with traces of molybdenite and powellite, interbedded with siliceous and calcareous hornfels. A reading of 0.03 MR/HR was noted here and a sample S-363 containing trace percent eU_3O_8 was taken.

Nothing has been mined from this property.

ORE RESERVES

There are no measured, indicated or inferred reserves of any uranium, molybdenum or tungsten ore on this property.

PROPOSED EXPLORATION

The application requesting Government aid contained a proposal for exploring an ore body on the September claims by six diamond drill holes, totaling 200 feet, and a 60-foot adit. The exact location of this proposed work is not known because of the absence of radioactive showings on the property, and because the applicant failed to meet the field examiners during the examination.

No anomalous radiation was noted on the property and no concentration of any strategic mineral was seen; therefore, the request for Government aid in the proposed program should be denied.

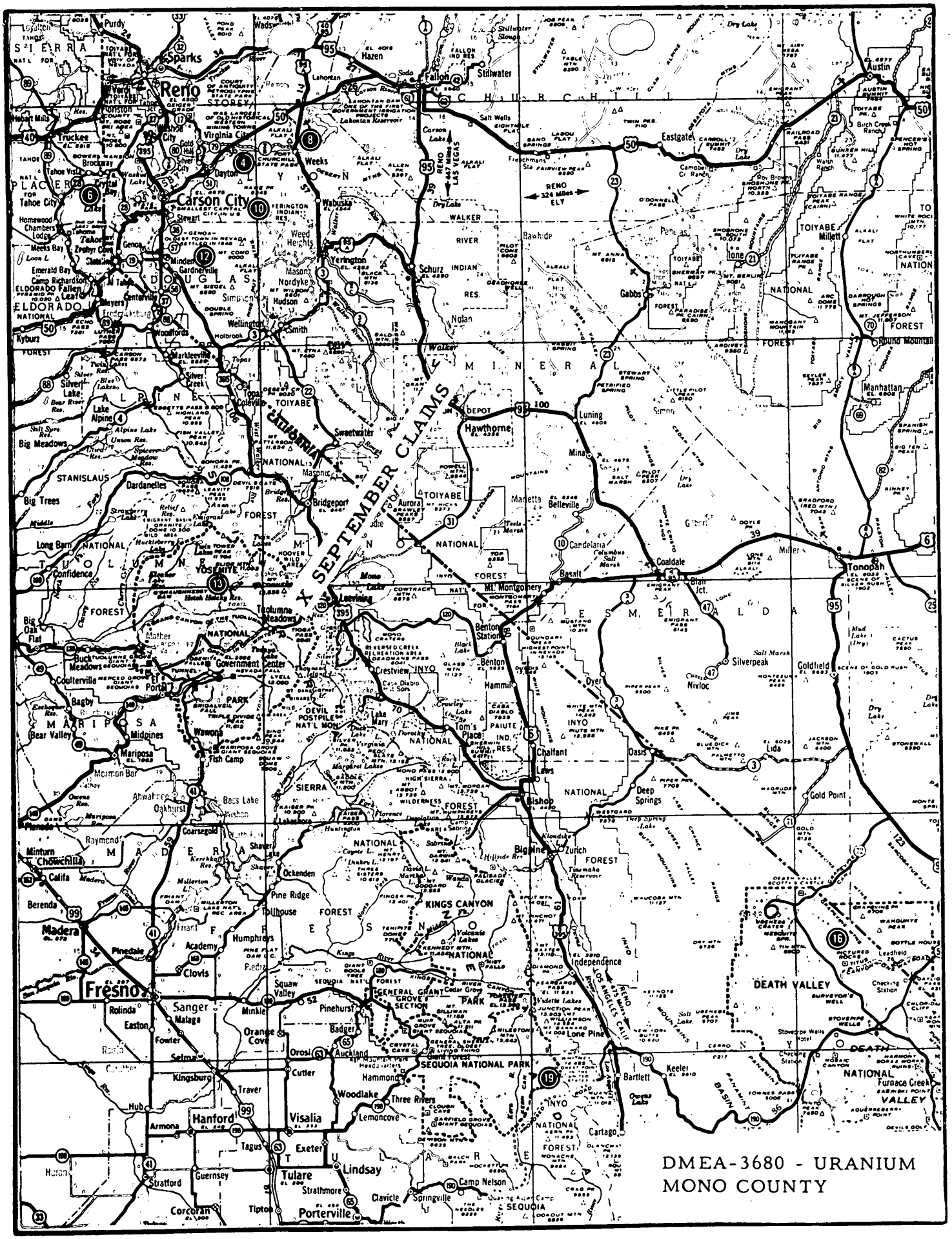

Fig. 1 LOCATION MAP CALIFORNIA

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Mineral Deposits Branch
4 Homewood Place
Menlo Park, California

C
O
P
Y

December 6, 1954

Mr. W. C. Holding
19 Campo Bello
Menlo Park, California

Dear Mr. Holding:

The samples of metamorphic rock from the September claims, Mono County, that you submitted to this office have been assayed for uranium content and the results (shown below) are being sent to you at the specific request of the U. S. Atomic Energy Commission

Sample No.	% uranium	% equivalent uranium	Description of sample
1	.037	.036	Gray metamorphic rock with molybdenite
2	.19	.21	Brownish-gray limonite-coated metamorphic rock with quartz

Sincerely yours,

/s/ Hal G. Stephens

Hal G. Stephens
Geologist

7/26/55 gla

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

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

Subject: Report of Examination, DMEA Docket 3680, P. C. Hillen and William C. Holding, September Claims, Mono County, California

I have reviewed the Field Team report of examination, September Claims, DMEA Docket 3680; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that the application be denied.

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford

John E. Crawford

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

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JUL 26 1955

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

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

Subject: Report of Examination, DMEA Docket 3680, P. C. Hillen and William C. Holding, September Claims, Mono County, California

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John E. Cranford

7/19/55 gla

IN REPLY REFER TO:

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

RECEIVED
JUL 18 1955

July 15, 1955

Re: DMEA 3680
Hillen and Holding
September Claims
Mono Co., Calif.

Memorandum

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

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

Subject: Review of Field Team report.

The writers of the application either misrepresented, due to too lively imaginations, or the examiners due to lack of a guide saw a different property. The latter is unlikely since the prospect is near a ranger station. It would be nice to know the origin of the sample~~s~~, submitted to the U.S.G.S. at Menlo Park, which ran 0.21% U_3O_8.

I concur with the recommendation of denial of the Field Team.

N. E. Nelson

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

July 15, 1955

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Hillen and Holding
September Claims
Mono Co., Calif.

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N. E. Nelson

N. E. Nelson

NENelson:iml
G-7/15/55

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.

July 15, 1955

Re: DMEA 3680
Killen and Hulding
September Claims
Mono Co., Calif.

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Subject: Review of Field Team report.

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NENelson:iml
G-7/15/55

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Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. C. Rested, 3210

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 7/12/55

REFERRED TO:

1. ~~Operating Committee~~
2. ~~Miss Curtin~~
3. 700 Mr. Murphy
4. Docket

FOR:

2nd copy report

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

REMARKS: Field Exam. Report
~~For Agenda 7/15/55~~

Check (X) before the items needing attention.

Joseph C. Smith Jr.
Initials of sender.

GPO 16—63815-1

7/18/55 gh

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

RECEIVED
JUL 12 1955

1605 Evans Avenue
Reno, Nevada

July 8, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3680 (Uranium)
P. C. Hillen and William C. Holding
September Claims
Mono County, California

Reference is made to your letter of February25, 1955 referring subject docket for field examination and recommendation.

Attached are four copies of a report by B. H. Sheahan, Bureau of Mines and E. H. Pampeyan, Geological Survey in which they recommend that application for exploration aid from DMEA be denied.

Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
7-15-55
(Date)

RECEIVED
JUL 12 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-3680 - Uranium
P. C. Hillen and William C. Holding
September Claims
Mono County, California

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

E. H. Pampeyan
Geologist
U. S. Geological Survey

July 5, 1955

Reviewed by
DMEA OPERATING COMMITTEE
7-15-55
(date)

INTRODUCTION

Pursuant to an application to the Defense Minerals Exploration Administration for exploration aid by P. C. Hillen and Wm. C. Holding, an examination of the September Uranium claims was made by E. H. Pampeyan, Geological Survey and B. H. Sheahan, Bureau of Mines, on June 14, 1955.

Arrangement had been made with Mr. P. C. Hillen one of the owners to accompany the engineer and geologist during the examination, but he failed to keep his appointment.

The applicants had requested the Government to participate in an exploration program consisting of diamond drilling and tunneling, the total cost of which was estimated to be $9,401.00.

CONCLUSIONS AND RECOMMENDATIONS

The examination indicated that the area contained small lenses of tactite showing traces of tungsten and molybdenum minerals that were not of economic significance.

Uranium minerals were not detected and the background count of 0.03-0.05 MR/HR, on a Geiger counter was not exceeded at any point on the property.

There is no justification for the work proposed, and it is recommended that the request for a DMEA loan be denied.

LOCATION, ACCESSIBILITY AND LOCAL RESOURCES

The property is in sec. 19, T. 1 N., R. 25 E., M.D.B.&M. at an elevation of 9800 feet (fig. 1). It lies approximately 1/2 mile north of East Gate, Ranger checking station, of the Yosemite National Park, on the west side of the Tioga Pass road. Accessibility is impossible by ordinary means during the winter months when the Tioga Pass road is closed. It is on the section of the Inyo National Forest which is classified as a recreation area.

Nearest settlement available for labor and supplies is Leevining a distance of 12 miles from the claims or Bishop a distance of 80 miles.

HISTORY, PROPERTY AND OWNERSHIP

Except for the incomplete location work, the property has no mining history. The four claims, September 1, 2, 3 and 4, were located September 16, 1954 by the applicants P. C. Hillen and W. C. Holding, a partnership, 19 Campo Bello, Menlo Park, Calif. Claims are recorded in Mono County, Calif.

GEOLOGY

The September claims lie along the east edge of a large roof pendant of Paleozoic rocks which is surrounded by Cretaceous granitic rocks of the Sierra Nevada batholith. The rocks exposed within the claim boundaries are predominately quartzites interbedded with layers of calcareous hornfels and small lenses of tactite; granite crops out in the south-

east part of the property (fig. 2). The lenses of tactite commonly contain traces of tungsten and molybdenum minerals. Locally the siliceous and calcareous rocks are stained by iron oxides, probably derived from the oxidation of sulphides in the tactite lenses. Bedding planes in the recrystallized rocks strike N. 0°-60° E. and dip 30°-90° NW.

ORE DEPOSITS

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ORE RESERVES

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PROPOSED EXPLORATION

The application requesting Government aid contained a proposal for exploring an ore body on the September claims by six diamond drill holes, totaling 200 feet, and a 60-foot adit. The exact location of this proposed work is not known because of the absence of radioactive showings on the property, and because the applicant failed to meet the field examiners during the examination.

No anomalous radiation was noted on the property and no concentration of any strategic mineral was seen; therefore, the request for Government aid in the proposed program should be denied.

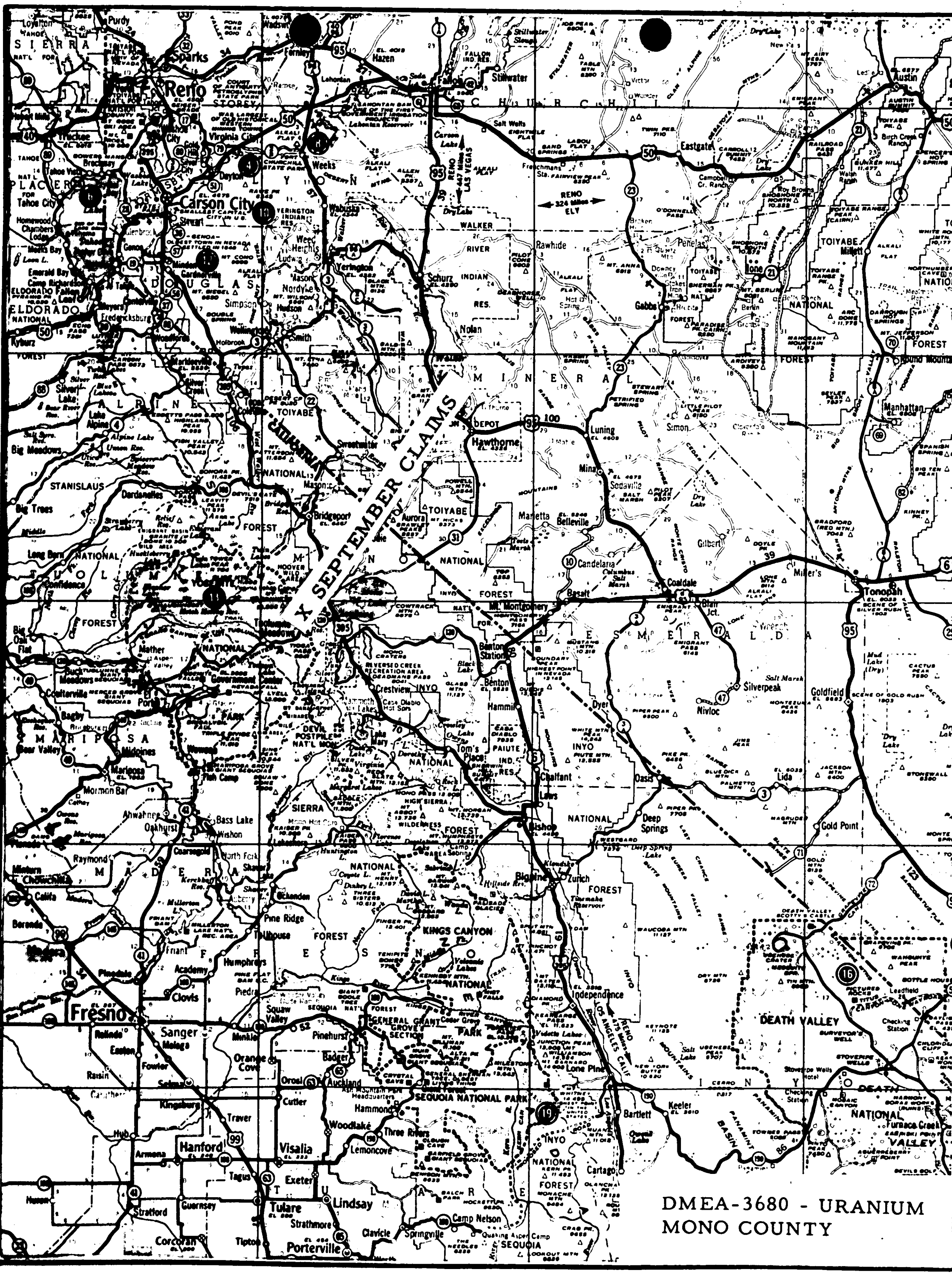
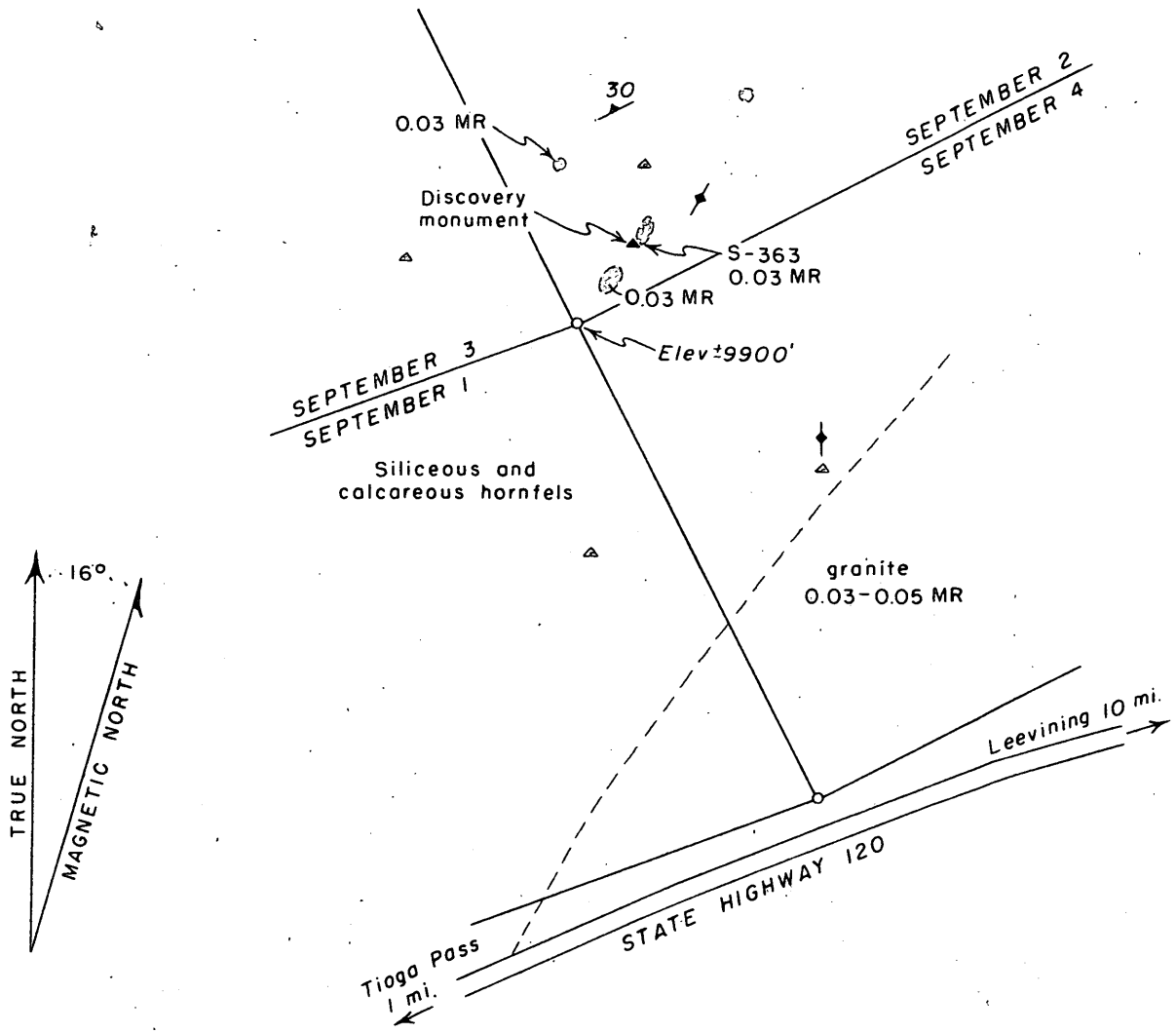


Fig. 1 LOCATION MAP CALIFORNIA

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3680
(URANIUM)



EXPLANATION

Contact, approximately located

30
Strike and dip of foliation

Strike and dip of vertical foliation

Iron stained zones

S-363
U.S. B.M. sample

0.03 MR
Radiation in MR/HR

Location monument

Brunton-pace map by E. H. Pampeyan, U.S.G.S.
June 1955

PART OF SEPTEMBER CLAIMS, MONO COUNTY, CALIFORNIA

200 0 200 400 FEET

Figure 2

Surname copy

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

Ellis
Hedges
Kulgaard
Selfridge
Fishman

FEB 25 1955

Messrs. P. C. Hillen and Wm. C. Holding
19 Campo Bello
Menlo Park, California

Re: Docket No. DMEA-3680 (Uranium)
September claims
Mono 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 for a field examination to the Executive Officer of Region II at the following address:

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
420 Custom House
555 Battery Street
San Francisco 11, California

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf
(by EST)
Administrator

EWEllis/gla
2-24-55
cc to: Admr.'s Reading File
Docket
DMEA FieldTeam, Region II (2)

R.C.G.

700

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

Surname copy

Mr. Selfridge

FEB 25 1955

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA-3680 (Uranium)
P. C. Hillen and William C. Holding
September claims
Mono County, California

Dear Mr. Ricker:

The subject application is referred to Region II Field Team for a field examination and recommendation. A copy of the application was retained by your office.

Enclosed are copies of memoranda from R. D. Trace, dated February 16, and John E. Crawford, dated February 18, 1955, members of the Uranium Commodity Committee.

It is suggested that the Field Team communicate with Ernest E. Thurlow, Atomic Energy Commission, Salt Lake City, Utah, in connection with the subject application. Any pertinent information he may offer should be of assistance to the Field Team in reaching a decision.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

EWEllis/gla
2-24-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700

R.C.S.

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

1-21-55

February 18, 1955

Bureau Minerals Administration
RECEIVED
FEB 18 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3680, P. C. Hillen and Wm. C. Holding,
19 Campo Bello, Menlo Park, California

I have reviewed the application included in the subject docket and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

It is recommended that the application be referred to the Field Team for investigation and report, and that the Field Team be requested to discuss the application with Ernest Thurlow, Atomic Energy Commission, Salt Lake City, Utah.

John E. Crawford

John E. Crawford

Attachment

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

RECEIVED

Not to be filled in by applicant

Docket No. 3680
Metal or Mineral Uranium
Date Received 2-14-55 FEB 8 1955
Estimated Cost $9,401
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:

P. C. Hillen
19 Campo Bello
Menlo Park
California

Wm. C. Holding
19 Campo Bello
Menlo Park
California

PARTNERSHIP

(*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 Mining Claims, September 1, 2, 3, 4. Approximately 1/2 mile North of East Gate, Ranger Checking Station, of Yosemite National Park at Tioga Pass, 1/2 mile South of the Tioga Lake. Resort on the West side of Tioga Pass Road, Lee Vining Canyon, 500 feet West of Tioga Lake.

(*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 Locator-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. owners

(*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. Mono County, California, Book 12, Pages 265, 266, 267.

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

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. No Production.

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

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

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

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

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

(*c*) The work will start within 30 days and be completed within six months from the date of an exploration project contract. Work can commence as soon as highway is clear of snow.

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

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.). See Attached Sheet

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

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

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

(*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. None

(*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. None

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

(*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. See Attached Sheet

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

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

[X] Money [X] Use of equipment owned by you [ ] 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 February 5, 1955

William C Holding
(Applicant)

By

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

INT.-DUP. SEC., WASH., D.C. 64941

4. Physical Description. The September group consists of four located mining claims on which the only work done to date is the location work. This location work was done by the locators, Hillen and Holding in the month of November 1954, consisting of trenching, vertical shaft, and blasting off faces of the outcrop. Claims will be available for examination as soon as snow is cleared from the Lee Vining Canyon Road, Approximately May 1st.

4 a. Geologic Features. This radio active outcrop was located by the use of Geiger counters, the area is 600 feet in length with widths of from 20 to 50 feet. It appears to be a vertical intrusion through granite, which granite is the the country rock of the area and surrounds the outcrop on all four sides. The host rock of the radio active material has been identified as Tactite. Qualitative spectrographic analysis shows the following to be present, in addition the radio active material, namely- Copper, Nickel, Titanium, Cobalt, Zinc, Lead, Strontium, Sodium, Potassium, Chromium, Iron, Vanadium, Molybdenum, Magnesium, Manganese, Sheelite, Silicon and Calcium. Veins of Molybdenum are scattered at random throughout the outcrop mass which va ry in size from 1/8 to 2 inches. Sheelite appears as scattered masses, some of which are 2 inches in size. At one end of the outcrop there is a blowout of Arsenopyrite about ten feet across which on analysis showed traces of both gold and silver.

Assay Reports. Samples have been sent in for assay from the outcrop as follows-

Discovery weathered face	
U.S. Bureau of Mines, Reno, Nevada.	0.024% U_3O_8
2 foot depth	
U.S. Bureau of Mines, Salt Lake City, Utah.	0.07
Abbot A. Hanks, San Francisco, California.	0.07
6 foot depth	
Nevada Mineral Laboratories, Reno, Nevada.	0.12
10 foot depth	
U.S. Geological Survey, Menlo Park, California.	0.31

The percentage of radio active material increased as the samples were obtained further away from the weathered face of the outcrop. Snow halted further work on the claims late in November of 1954. The entire mass of the outcrop shows radio activity. In close proximity to the outcrop are intrusions of volcanic origin, some of which show slight radio activity. On a hill immediately behind the outcrop there is a capping of Aplite about 1000 feet in length, 500 feet in width and 60 feet thick, beneath the talus slope of this Aplite mass two areas have been located with counters which are radio active. Immediately to the side at one end of the outcrop is located a deposit of what appears to be Montmorillonite which shows traces radio activity, some 200 feet in diameter with depth unknown.

On the south end of the outcrop is a depression 300 feet in diameter which appears to have been an outlet for a hydrothermal solution at one time in that the rocks and ground show heavy staining of a chocolate brown color with a distinct water line where the solution reached its top level before breaking through and flowing out at a low point in the basin. This depression shows slight radioactivity.

It is the purpose of this application to apply for aid in proving the outcrop has sufficient ore to justify purchasing necessary equipment and to mine. One copy of photostat of letter from U.S. Geological Survey enclosed. Please return.

4 d. Accessibility of the project.

The claims are located in Lee Vining Canyon, Mono County, California, and adjoin the right of way of the blacktopped surfaced road of Lee Vining Canyon. There is no access road from the highway on to the property. It is 78 miles from the claims to the town of Bishop, California, the nearest rail head, and 10 miles from the claims to the town of Lee Vining, all roads are surfaced.

4 e. Availability of supplies, water, power etc.

Power available at 2 miles, Power plant in Lee Vining Canyon. Water for drilling etc., available from shallow lake on claims, 300 feet. Water for drinking available at 1,000 feet from Tioga Lake. Materials and and supplies available at Bishop, California, 70 miles or Reno, Nevadaat 147 miles. Men power is available at town of Lee Vining, 10 miles.

5 b. Proposed work.

To diamond core drill six holes to a depth of 200 feet and drive one tunnel a distance of 60 feet to prove ore body. Make access road from paved highway to working area on claims, a distance of approximately 1,000 foot.

5 d. Background of Applicants. Mr. C. Holding of the partnership has had eight years of prospecting and small mine operation. F. C. Hillon of the partnership has worked six years in coal mines. The supervision of the proposed work will under the direction of both partners with Mr. Hillon the foreman of the project.

6. Estimated Costs.

a. Employment Contractors. Six core drill holes to a depth of 200 feet each at $4.50 per foot	$5,400.00
One exploratory drift of 60 feet @ $50.00 per ft.	1,000.00
Bulldozer Operation, access road, 1000 foot, 12 hours @ $20.00 per hr.	240.00
b. Supervision & Labor.	
One Foreman, 14 working days @ $20.00 per day.	280.00
Two laborers, 14 days each @ $12.00 per day	336.00
c. Operating Material & Supplies.	
Dynamite, 10 cases, fuse, caps	150.00
Gasoline for compressor, 100 gals @ $.35	35.00
d. Operating Equipment.	
Rental of Air Compressor & Drill Accessories 18 days @ $20.00 per day	500.00
Drill Bits, carbon,	100.00
Use Allowance of partnership owned Dodge Pick up truck, 20 days @ $10.00 per day	200.00
e. None	
f. None. ?	
g. Estimated	
h. Contingencies. 20 arrays @ $10.00 each	100.00 f)
Un-forseen expenses	200.00 g)
	200.00 h)
Total Estimated	$9,201.00

2/17/55

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
FEB 17 1955

February 16, 1955

Re: DMEA-3680
Hillen & Holding
September claims
Near Yosemite National Park
$9,401 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

No evaluation of the proposed project can be made from the application. Inasmuch as two samples were of ore grade, and were assayed by the Bureau and Survey, I recommend that further information be obtained from the Field Team. I doubt that much information can be obtained from the applicant.

Bob Trace
R. D. Trace

IN REPLY REFER TO:

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

February 16, 1955

Re: DMEA-3680
Hillen & Holding
September claims
Near Yosemite National
Park
89,481 - Uranium

Memorandum

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

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Subject: Review of application

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R. D. Trace

RDTrace:hlm
G-2/16/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

February 14, 1955
Subject: DMEA 3680
Re: Exploration Assistance
September Claims 1, 2, 3, and 4

Messrs. William C. Holding
and P. C. Hillen
19 Campo Bello
Menlo Park, California

Gentlemen:

The receipt of your application dated February 5, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3680 and referred to the Rare and Miscellaneous Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

February 14, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA - 3680 P. C. Hillen and William C. Holding

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

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

February 9, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: DMEA Loan Application - Uranium
P. C. Hillen and William C. Holding (Partnership)
September Claims 1, 2, 3, and 4
Mono County, California

Attached are three copies of Application for Aid Forms MF-103 with attachments on the above subject property.

One copy of the application is being retained in our files.

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: Roscoe Smith, USGS

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

February 9, 1955

Memorandum

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Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

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S. RICKER

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: Roscoe Smith, USGS

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
RECEIVED
FEB 14 1955

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

Not to be filled in by applicant

Docket No. 3680
Metal or Mineral Uranium
Date Received 2-14-55 FEB 8 1955
Estimated Cost $9,401
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: P. C. Hillen, 19 Campo Bello, Menlo Park, California; Wm. C. Holding, 19 Campo Bello, Menlo Park, California — PARTNERSHIP

(*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.

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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 Mining Claims, September 1, 2, 3, & 4. Approximately 1/2 mile North of East Gate, Ranger Checking Station, of Yosemite National Park at Tioga Pass. 1/2 mile South of the Tioga Lake Resort on the West side of Tioga Pass Road, Lee Vining Canyon, 500 feet West of Tioga Lake.

(*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 Locators-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. Owners

(*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. Mono County, California, Book 12, Pages 265, 266, 267.

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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Dated February 5, 1955

William C. Holding
(Applicant)

By

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INT.-DUP. SEC., WASH., D.C. 64941

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4 c. Geologic Features. This radio active outcrop was located by the use of Geiger counters, the area is 600 feet in length with widths of from 20 to 50 feet. It appears to be a verticle intrusion through granite, which granite is the the country rock of the area and surrounds the outcrop on all four sides. The host rock of the radio active material has been identified as Tactite. Qualitative spectrographic analysis shows the following to be present, in addition the radio active material, namely- Copper, Nickel, Titanium, Cobalt, Zinc, Lead, Strontium, Sodium, Potassium, Chromium, Iron, Vanadium, Molybdenum, Mangesium, Manganese, Sheelite, Silicon and Calcium. Veins of Molybdenum are scattered at random throughout the outcrop mass which va ry in size from 1/8 to 2 inches. Sheelite appears as scattered masses, some of which are 2 inches in size. At one end of the outcrop there is a blowout of Arsenopyrite about ten feet across which on analysis showed traces of both gold and silver.

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U.S. Bureau of Mines, Reno, Nevada.	0.024% U_3O_8
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U.S. Bureau of Mines, Salt Lake City, Utah.	0.07
Abbot A. Hanks, San Francisco, California.	0.07
6 foot depth	
Nevada Mineral Laboratories, Reno, Nevada.	0.12
10 foot depth	
U.S. Geological Survey, Menlo Park, California.	0.21

The percentage of radio active material increased as the samples were obtained further away from the weathered face of the outcrop. Snow halted further work on the claims late in November of 1954. The entire mass of the outcrop shows redio activity. In close proximity to the outcrop are intrusions of volcanic origion, some of which show slight radio activity. On a hill immediately behind the outcrop there is a capping of Aplite about 1000 feet in length, 500 feet in width and 60 feet thick, beneath the talus slope of this Aplite mass two areas have been located with counters which are radio active. Immediately to the side at one end of the outcrop is located a deposit of what appears to be Montmorillonite which shows traces radio activity, some 200 feet in diameter with depth unknown.

On the south end of the outcrop is a depression 300 feet in diameter which appea rs to have been an outlet for a hydrothermal solution at one time in that the rocks and ground show heavy staining of a chocolate brown color with a distinct wa ter line where the solution reached its top level before breaking through and flowing out at a low point in the basin. This depression shows slight radioactivity.

It is the purpose of this application to apply for aid in proving the outcrop has sufficient ore to justify purchasing necessary equipment and to mine. One copy of photostat of letter from U.S. Geological Survey enclosed, Please return.

4 d. Accessibility of the project.

The claims are located in Lee Vining Canyon, Mono County, California, and adjoin the right of way of the blacktopped surfaced road of Lee Vining Canyon. There is no access road from the highway on to the property. It is 78 miles from the claims to the town of Bishop, California, the nearest rail head, and 10 miles from the claims to the town of Lee Vining, all roads are surfaced.

4 e. Availability of supplies, water, power etc.

Power available at 2 miles, Power plant in Lee Vining Canyon. Water for drilling etc., available from shallow lake on claims, 300 feet. Water for drinking available at 1,000 feet from Tioga Lake. Materials and and supplies available at Bishop, California, 78 miles or Reno,Nevadaat 147 miles. Man power is available at town of Lee Vining, 10 miles.

5 b. Proposed work.

To diamond core drill six holes to a depth of 200 feet and drive one tunnel a distance of 60 feet to prove ore body. Make access road from paved highway to working area on claims, a distance of approximately 1,000 feet.

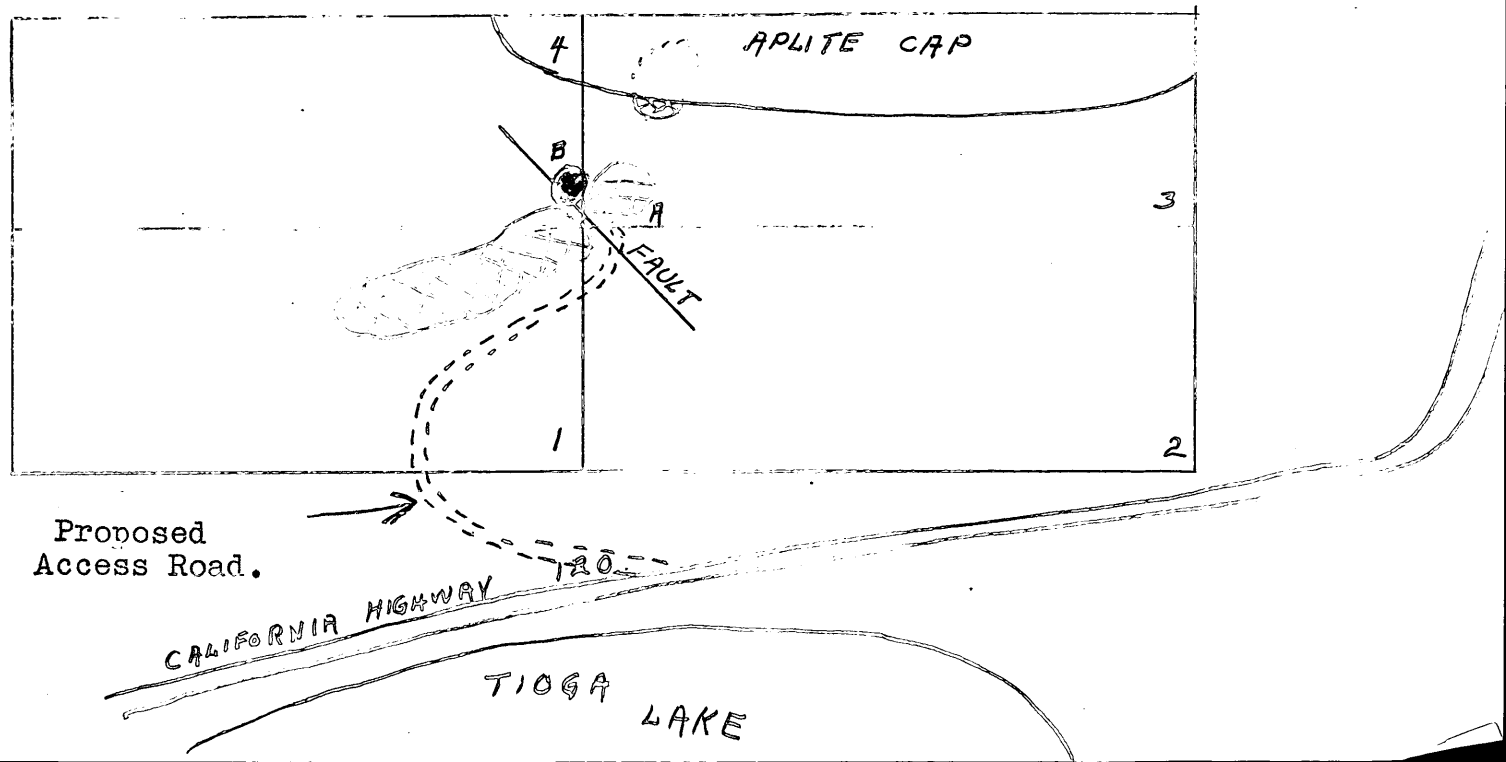
5 d. Background of Applicants. Wm. C. Holding of the partnership has had eight years of prospecting and small mine operation. P. C. Hillen of the partnership has worked six years in coal mines. The supervision of the proposed work will under the direction of both partners with Mr. Hillen the foreman of the project.

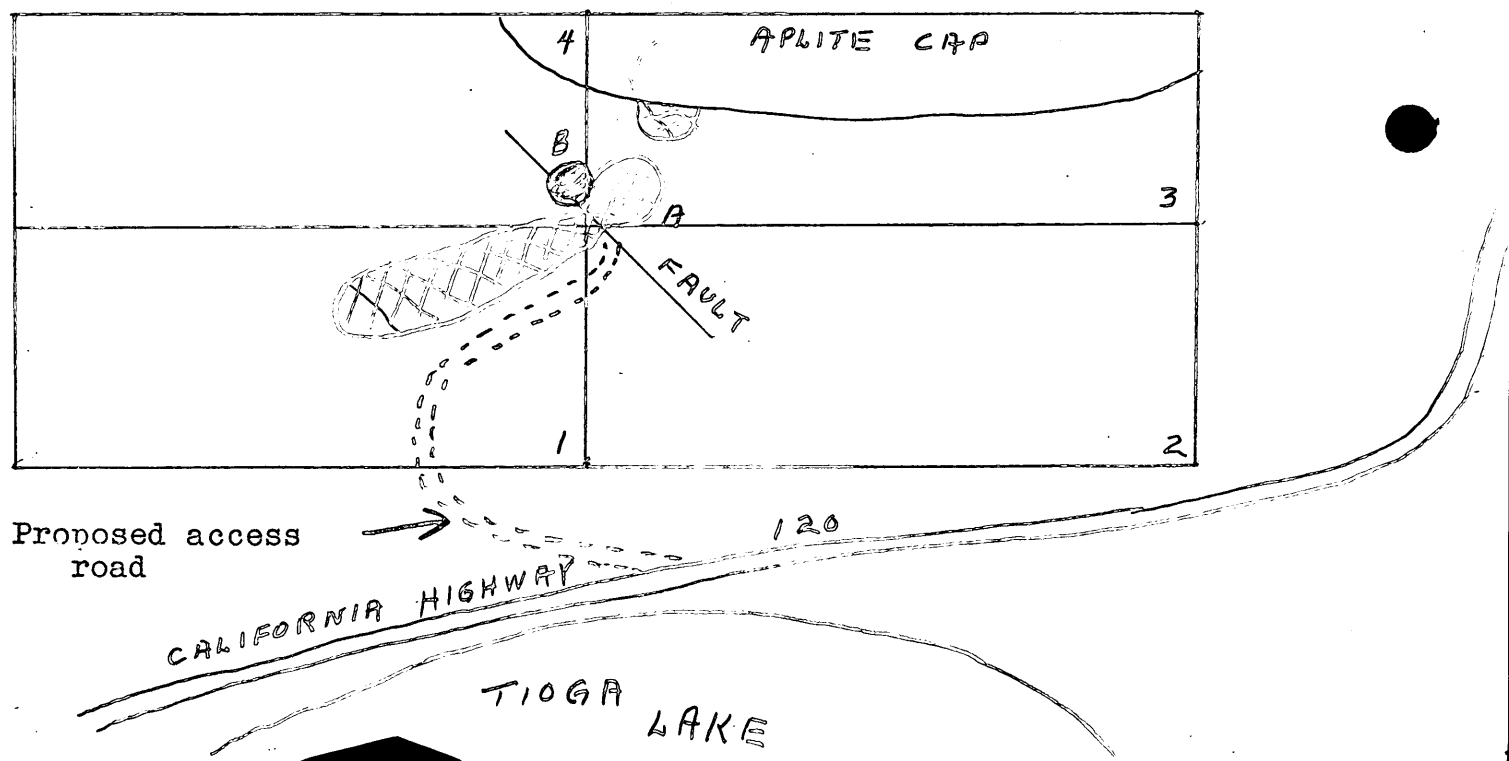
6. Estimated Costs.

a.	Independent Contractors. Six core drill holes to a depth of 200 feet each at $4.50 per foot	$5,400.00
	One exploratory drift of 60 feet @ $30;00 per ft.	1,800.00
	Bulldozer Operation, access road, 1000 feet, 12 hours @ $20.00 per hr.	240.00
b.	Supervision & Labor.	
	One Foreman, 14 working days @ $20.00 per day.	280.00
	Two laborers, 14 days each @ $12.00 per day	336.00
c.	Operating Material & Supplies.	
	Dynamite, 1o cases, fuse, caps	150.00
	Gasoline for compressor, 100 gals @ $.35	35.00
d.	Operating Equipment.	
	Rental of Air Compressor & Drill Accessories 18 days @ $20.00 per day	360.00
	Drill Bits, carbon,	100.00
	Use Allowance of partnership owned Dodge Pick up truck, 20 days @ $10.00 per day	200.00
e.	None	
f.	None.	
G.	Estimated	100.00
h.	Contingencies. 20 assays @ $10.00 each	200.00
	Un-forseen expenses	200.00
	Total Estimated	$9,401.00

Map of September Claims 1-2-3-4.

A. Proposed Tunnel
B. Arsenopyrite Blowout



Map of September Claims 1-2-3-4.

A. Proposed tunnel
B. Arsenopyrite blowout