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FILE COPY
Surname:
Murphy
Ellis
Nelson
Robb
Lefgedge

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

Mr. Eugene B. Swanson, et al.
82 Marie Drive
Hayward, California

Re: Docket No. DMEA-4032 (Uranium)
Autunite Uranium Placer and Lode Claims
Tuolumne County, California

Dear Mr. Swanson:

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 some uranium mineralization 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,

Frank E. Johnson

ACTING Administrator

FMMurphy/izm 8-29-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region II (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Note: Duplicate material removed from Docket-4032.

May 14/07 F.J. Murphy

Holding it in new application 4744 on same lands.

F.J.M.

Docket Copy
700

Murphy
Ellis

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4032

Commodity: Uranium

Applicant: Eugene B. Swanson, et al., an Association
82 Marie Drive
Hayward, California

Property: Owners by location of the 160 acre Autunite Uranium placer mining claim and the Autunite Nos. 5 and 6 lode claims, situated in secs. 4 and 9, T. 5 N., R. 19 E., M.D.B.M., Tuolumne County, California.

Date of Application: October 18, 1955

Referred to Region II: November 15, 1956.

The property is inaccessible from about mid-October until June because of snow conditions, however, the Field Team, submitted a preliminary report, dated December 13, 1955, containing available data relating to the claim area.

Field Examination made: July 12, 1956

Field Team Report received: August 20, 1956

Work Proposed and Costs:

6000 feet of drilling @ $5/foot.
Location, depth, and method of drilling not given.

Excerpts from Field Team Report:

The claims are in the Stanislaus National Forest and are located in the bottom of a small stream cut canyon in an area of moderate relief.

The Uranium occurrences are in remnants of stream or lake deposits of sandstone and pebble conglomerate of late Tertiary age. The basin containing the sedimentary rocks is about 3,000 feet long and 1,000 feet wide.

The sandstone and conglomerate contain abundant carbonaceous material in the form of fossil logs, branches, leaves, and plant remains. The uranium-bearing concentrations are from a few inches to a foot in diameter localized around nuclei of carbonized wood or finely divided plant remains. The uranium content ranges from a trace to 0.13% U_3O_8. Except in the immediate vicinity of these small pods

of uranium-bearing material the radioactivity of the sandstone and conglomerate beds containing the pods is not above background and the uranium content is estimated to be less than 0.01% U_3O_8.

By careful mining and sorting of the uranium-bearing carbonaceous material a few hundred pounds of material containing about 0.15% U_3O_8 may be produced.

The concentrations of uranium are too small and widely scattered to be found by a drilling program. Previous exploration by bulldozing on the subject property has disclosed several small pods of uranium-bearing material but the cost of this type of exploration is prohibitive for the size of ore bodies that might be found.

The Field Team recommends the application be denied.

Commodity Members' Comments:

USBM, James Paone, August 24, 1956:

Mr. Paone notes that the uranium occurrences are too small and scattered to be economically mined, and concurs in the Field Team's recommendation to deny the application.

USGS, W. P. Williams, August 27, 1956:

Mr. Williams agrees with the field examiners that a worthwhile discovery would not result from exploration drilling, and concurs in the Field Team's recommendation that the application be denied.

Rare and Misc. Metals Div., F. M. Murphy, August 29, 1956:

The pods of low-grade uranium-bearing material occurring on the subject property are small and widely scattered. Although the sandstone and conglomerate contain abundant carbonaceous trash usually associated with uranium concentration in sedimentary rocks, apparently in this case only an occasional accumulation of the trash material has been mineralized.

Conclusion and Recommendation:

The small and scattered pods of uranium-bearing material reported to occur on the property can not be considered a feasible target for exploration by drilling. Therefore, this Division concurs in the Field Team's recommendation to deny the subject application.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

8/28/56

IN REPLY REFER TO:

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

August 27, 1956

RECEIVED
AUG 28 1956

Memorandum

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

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

Subject: Review of field examination report, DMEA 4032 (uranium), Eugene B. Swanson, et al., Autunite Uranium placer and lode claims, Tuolumne County, California.

The examining team reports that uranium mineralization on the applicant's property consists of small pods and lenses of uranium-bearing carbonaceous material in sandstone and pebble conglomerate. The grade of the widely scattered deposits is low. No ore has been mined from the property.

The examiners conclude that a worthwhile discovery would not result from exploration drilling. I concur with the Field Team's recommendation that the application be denied.

W. P. Williams

W. P. Williams

8/27/56

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

August 24, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Dockect 4032 (Uranium)
Eugene B. Swanson, et al, Autunite Uranium Placer &
Lode Claims, Tuolumne County, California

I have reviewed the report of examination, DMEA Docket 4032, Eugene B. Swanson, et al, Autunite Uranium Placer & Lode Claims, Tuolumne County, California, dated August 15 and received in this office August 24, 1956. I have also discussed it with Jack Kratchman, Atomic Energy Commission.

The field examiners recommend that the application for exploration assistance be denied because the small pods and lenses of uranium-bearing carbonaceous material in the sandstone and pebble conglomerate are too low grade and too widely scattered to be economically mined.

We concur in the recommendation that the application be denied.

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

James Paone
James Paone

RECEIVED
AUG 27 1956

2 m Eo
8/27/56

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

1605 Evans Avenue
Reno, Nevada
Aug. 17, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4032 (Uranium)
Eugene B. Swanson, et al
Autunite Uranium Placer & Lode Claims
Tuolumne County, California

Reference is made to your letter of January 4, 1956, stating you would hold docket in abeyance pending Field Team's report.

Attached are four copies of a report by H. K. Stager, USGS, and B. H. Sheahan, USBM, recommending that the application for a DMEA loan be denied.

Roscoe Smith and I concur in the recommendation.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attach.

RECEIVED
AUG 30 1956

Reviewed by
DMEA OPERATING COMMITTEE
8-24-56
(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 4032 (Uranium)
Eugene B. Swanson, and others
Autunite Uranium placer and lode claims
Tuolumne County, California

by

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

H. K. Stager
U. S. Geological Survey

August 15, 1956

RECEIVED
AUG 30 1956

Reviewed by
DMEA OPERATING COMMITTEE
8-24-56
(date)

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ILLUSTRATIONS

Figure 1 . . . . . Location map

INTRODUCTION

Mr. Eugene B. Swanson, 82 Marie Drive, Hayward, California, applied on October 18, 1955 to the Defense Minerals Exploration Administration for Government assistance in a $33,000.00 program to help finance 6,000 feet of exploratory surface core drilling to search for uranium at the Autunite Uranium placer and lode claims, Tuolumne County, California. A field examination was requested by the Operating Committee on November 15, 1955.

The examining engineer[1/] interviewed the applicant on

1/ Sheahan, B. H., Preliminary Examination Report, DMEA-4032, December 13, 1955.

November 29, 1955 and was informed that access roads were closed because of snow conditions.

The property was examined by B. H. Sheahan, U. S. Bureau of Mines, and H. K. Stager, U. S. Geological Survey, on July 12, 1956. They were accompanied by the applicant and Mr. Fred Spackman of Process Diamond Drilling Company, San Francisco, California.

CONCLUSIONS AND RECOMMENDATIONS

The Autunite Uranium deposit consists of small pods and lenses of uranium-bearing carbonaceous material in sandstone and pebble conglomerate. 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 pods are too small and widely scattered to be economically mined. Samples taken of the most radioactive occurrences, or pods, do not represent minable quantities of ore.

It is recommended that Government assistance under the DMEA program be denied as the exploration targets contain only insignificant amounts of uranium.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The property is in secs. 4 and 9, T. 5 N., R. 19 E., M.D.B.&M., Tuolumne County, California in the Eagle Peak area on the west side of the Sierra Nevada, at an altitude of 7,000 feet (fig. 1).

To reach the deposit from Dardanelle, the nearest town, follow California highway No. 108 7.9 miles westerly, turn left and follow an old section of paved road 0.3 mile easterly, turn right and follow a steep dirt logging road 2.4 miles southeasterly to Niagara Creek. From this point the main

open cut trenches near the center of the placer claim are reached by following a trail one-eighth mile southerly along the west side of Niagara Creek. The claims cover a heavily wooded portion of the Stanislaus National Forest which is inaccessible from about mid-October until June because of snow conditions.

Timber? claims

Sonora, California, the nearest source of labor and supplies, is 48 miles by road from the claims.

HISTORY AND PRODUCTION

A discovery of traces of autunite was made in July 1955 by Messrs. Norman Boles, Eugene B. Swanson, and E. M. Tharp. No ore has been produced from the area.

PROPERTY AND OWNERSHIP

The property includes the 160-acre Autunite Uranium placer mining claim and two lode claims, the Autunite No. 5 and Autunite No. 6, along the west side of the placer claim.

Location certificates are recorded at Sonora, California in Vol. 14, page 398, under recording number 3338, by E. M. Tharp, M. A. Tharp, M. L. Tharp, Norman Boles, Norman Roger Boles, Janet L. Boles, Eugene B. Swanson, Helen V. Swanson, and Dwight F. Swanson, an association.

DEVELOPMENT

Only a few shallow trenches and open cuts have been excavated on the property. Most of the work was done with a bulldozer. The largest trench near the center of the placer claim is from one to five feet deep, 20 feet wide, and 40 feet long.

No equipment is on the land, and none is owned by the applicant.

GENERAL GEOLOGY

The claims are in the bottom of a small stream cut canyon in an area of moderate relief. Because of slope wash, stream debris, and thick timber cover there are few outcrops. The rocks exposed in the claim area are chiefly sandstone and pebble conglomerate of probable late Tertiary age. These rocks are remnants of stream or lake deposits in a small basin surrounded and underlain by rocks of the Sierra Nevada batholith of Cretaceous age.

The oldest rock in the claim area is a light-gray, medium-grained granodiorite. Overlying the granodiorite is a light-gray to brown, lenticular, crossbedded, silty, sandstone bed from a few inches to about 20 feet thick. The sandstone consists chiefly of grains of andesite, basalt, and pumice, poorly cemented with limonite and secondary silica. Carbonaceous material in the form of fossil logs, branches, leaves, and finely divided plant

remains is abundant near the base of the sandstone. Overlying the sandstone is a bed of dark red-brown, sandy, well cemented, pebble conglomerate from a few feet to about 100 feet thick. The conglomerate consists of well rounded pebbles of andesite, basalt, and granodiorite with sparse cobbles as much as one foot in diameter. The source of the volcanic rocks that comprise the bulk of the sedimentary beds is a thick sequence of basalt and andesite flows about 10 miles to the east.

The basin containing the sedimentary rocks is about 3,000 feet long and 1,000 feet wide. The beds are nearly flat lying over much of the area with maximum dips of about 5 degrees locally. The sedimentary rocks are thoroughly dissected by Niagara Creek and its tributaries so that all dimensions of the beds, both laterally and vertically, can be observed.

ORE DEPOSITS

The uranium deposit consists of small pods and lenses of uranium-bearing carbonaceous material in sedimentary rocks. The ore minerals were derived by leaching of trace amounts of uranium contained in overlying and surrounding volcanic and plutonic rocks and redeposition in shaly sandstone and pebble conglomerate.

The only uranium mineral observed was autunite that occurs as sparsely disseminated flakes coating sand grains and pebbles. Gangue minerals are limonite, goethite, marcasite, and hyalite with abundant carbonaceous material.

The uranium-bearing concentrations are from a few inches to a foot in diameter localized around nuclei of carbonized wood or finely divided plant remains. The uranium content ranges from a trace to 0.13 percent U_3O_8. Except in the immediate vicinity of these small pods of uranium-bearing material the radioactivity of the sandstone and conglomerate beds containing the pods is not above background and the uranium content is estimated to be less than 0.01 percent U_3O_8.

The localization of the uranium-bearing minerals is controlled by the carbonaceous material in the sedimentary beds. This carbonaceous material is abundant throughout the claim area but only part of it is mineralized and in many places concentrations of carbonaceous material only a few feet from uranium-bearing material is unmineralized.

In only two places on the claims has material containing more than 0.1 percent U_3O_8 been exposed. These two exposures are about 1,000 feet apart.

SAMPLING

Samples were taken from the most radioactive occurrences of conglomerate, sandstone and fossil carbon.

Sample No.	Width, feet	% eU_3O_8	% cU_3O_8	Description	Location
S-494	1.2	0.04	0.13	Conglomerate with carbon.	Vertical cut, 100 ft. east of 1/4 sec. corner.
S-495	2.0	Trace	0.04	Conglomerate and sandstone.	Vertical cut, 75 ft. north of sample S-494.
S-496	2.0	0.02	0.06	Sandstone with carbon.	Cave 1/10 mile NE of main trenches.
S-497	1.0	0.16	0.13	Fossil log with carbon.	Pit 1/5 mile north of main trenches along west side of Niagara Creek.

ORE RESERVES

There are no reserves of ore grade (over 0.2 percent U_3O_8) material on the Autunite Uranium claims.

By careful mining and sorting of the uranium-bearing carbonaceous material a few hundred pounds of material containing about 0.15 percent U_3O_8 may be produced.

PROPOSED EXPLORATION

The applicant proposed to explore for uranium ore bodies by 6,000 feet of exploratory drilling in unspecified locations on the claims. The Government's share of the total estimated cost of $33,000 would be $24,750.

The concentrations of uranium-bearing material are too small and widely scattered to be found by a drilling program. Previous exploration by bulldozing has disclosed several small pods of uranium-bearing material but the cost of this type of exploration is prohibitive for the size of the ore body found.

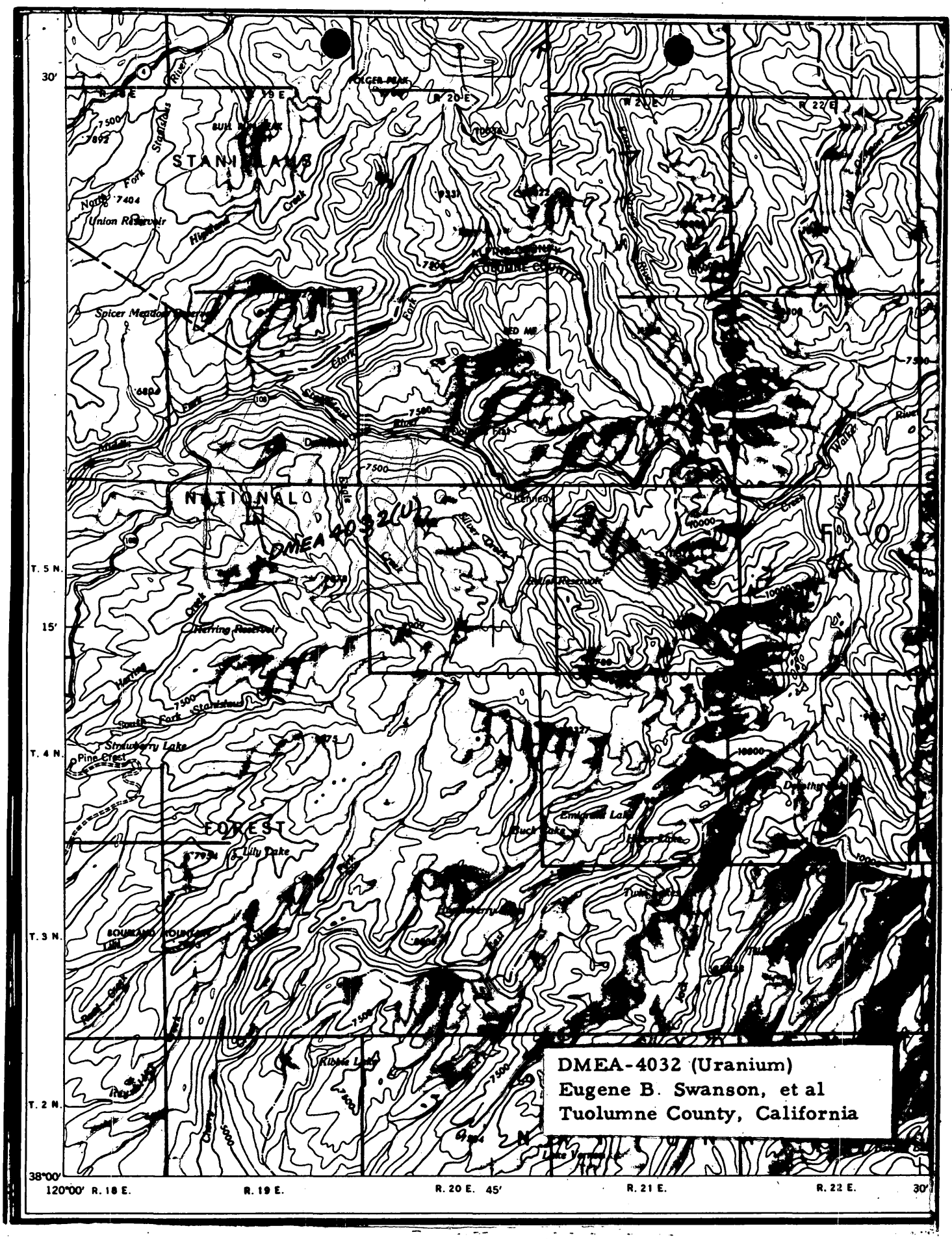

Fig. 1 LOCATION MAP CALIFORNIA

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AUG 20 1956

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Murphy
Ellis
Selfridge
Hopman
Mitchell of

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

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare & Precious Metals
Experiment Station
1605 Evans Avenue
Reno, Nevada

JAN 4 1956

Re: Docket No. DMEA-4032 (Uranium)
Eugene B. Swanson, et al.
Autunite Uranium Placer and Lode Claims
Tuolumne County, California

Dear Mr. Ricker:

This is to acknowledge your memorandum, dated December 13, 1955, with attached copies of a preliminary application report by B. H. Sheahan, and your letter to Mr. Swanson concurring in his proposal to postpone a possible field examination until late spring.

We shall hold the above-docketed application in abeyance pending receipt of the Field Team's report of examination or other action.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (G/S)

APPROVED:

/s/ Robert W. Geehan (G/S)
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey (G/S)

FTMurphy/gla
12-30-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
Code 700
Mr. Murphy
JOHosted, Rm. 3210, GSA

12-29-55 lgm

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

RECEIVED
DEC 29 1955

December 28, 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: Preliminary application report, DMEA Docket 4032, Eugene B. Swanson, et al., Autunite Uranium Placer and Lode Claims, Tuolumne County, California

I have reviewed the preliminary application report of Eugene B. Swanson, et al., DMEA Docket 4032, dated December 13 and received in this office December 20. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that an examination of subject property be held in abeyance until late spring of 1956.

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

John E Crawford
John E. Crawford

DMEA

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

RECEIVED
DEC 15 1955

1605 Evans Avenue
Reno, Nevada

December 13, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4032 (Uranium)
Eugene B. Swanson, etal
Autunite Uranium Placer and Lode Claims
Tuolumne County, California

Reference is made to your letter of November 15, 1955 relative to a field examination of subject property.

Four copies of a preliminary application report by B. H. Sheahan are attached. A field examination will be held in abeyance until late spring of 1956.

Two copies of my letter of December 13 to Mr. Swanson are also attached.

S. Ricker

S. Ricker

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
12-19-55
(date)

BUREAU OF MINES
WASHINGTON, D. C.

DEC 15 9 51 AM '55

RECEIVED
DEC 15 1955

1605 Evans Avenue
Reno, Nevada

December 13, 1955

Mr. Eugene B. Swanson
82 Marie Drive
Hayward, California

Re: Docket No. DMEA-4032 (Uranium)
Autunite Uranium Placer & Lode Claims
Tuolumne County, California

Dear Mr. Swanson:

We will postpone a possible field examination of the above referenced property until late spring as suggested in your letter of December 5, 1955.

In the meantime you should submit the data requested by our engineer, Mr. B. H. Sheahan, during his interview with you on November 29 and December 3. The data requested includes maps showing the lode and placer claims and the location of the proposed exploration work.

Very truly yours,

S. Ricker
Executive Officer
DMEA Field Team, Region II

SRicker:gh
cc: Opr. Com., DMEA, Wash., D.C.
R. M. Smith
File

Reviewed by
DMEA OPERATING COMMITTEE
12-19-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

RECEIVED
DEC 15 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

PRELIMINARY APPLICATION REPORT

DMEA-4032 (Uranium)
Eugene B. Swanson, et al
Autunite Uranium Placer and Lode Claims
Tuolumne County, California

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

December 13, 1955

Reviewed by
DMEA OPERATING COMMITTEE
12-19-55
(date)

RECEIVED
DEC 15 1955

INTRODUCTION

Mr. Eugene B. Swanson, 82 Marie Dr., Hayward, California, applied to the Defense Minerals Exploration Administration for Government assistance in a $33,000.00 program to help finance 6,000 feet of exploratory core drilling to search for uranium at the Autunite Uranium Placer and Lode claims on Niagara creek, near the Eagle Peak area of the high Sierra Nevada mountains, Tuolumne County, California. The application was dated October 18, 1955 and the Operating Committee requested a field examination on November 15, 1955.

Mr. B. H. Sheahan, mining engineer, U. S. Bureau of Mines interviewed Mr. Eugene B. Swanson on November 29 and December 3, 1955. The engineer was informed that access roads leading to the property were closed by the U.S. Forest Service because of snow conditions. An examination of the property will not be practical until late in the spring of 1956. Mr. Eugene B. Swanson was requested to submit claim maps showing the location of the proposed work and exploration targets.

The property was discussed with an engineer 1/ of the Atomic Energy Commission who had examined the deposit on October 12, 1955. Most of the factual data was obtained from this source.

1/ Rambosek, A. J., mining engineer, Atomic Energy Commission, Reno, Nev. Preliminary Reconnaissance Report File No. R-53.

CONCLUSIONS AND RECOMMENDATIONS

The applicant has no definite exploration plan. He evidently desires the field team to examine the property and propose an exploration core drilling program. Further prospecting and possibly some exploratory work might be justified.

A field examination should be held in abeyance until the late spring of 1956 because of snow conditions.

LOCATION, ACCESSIBILITY AND LOCAL RESOURCES

The property is in secs. 4 and 9, T. 5 N., R. 19 E., M.D.B. &M., Tuolumne County, Calif., in the Eagle Peak area of the Sierra Nevada mountains at an altitude of 7,000 feet (see fig. 1).

To reach the property from Dardanelles, the nearest town, follow California highway No. 108 west 6.1 miles; turn left and follow old highway 108 for 2.0 miles; turn left and follow Eagle Meadows logging road 2.0 miles to Niagara Creek crossing; turn right and follow a jeep trail to the claims. The property covers a very heavily wooded portion of the Stanislaus National Forest, which is usually not accessible from mid October until June.

HISTORY AND PRODUCTION

The claims were staked in 1955 following the discovery of traces of autunite mineralization in sandy conglomerates. There has been no production. Lode claims were later over lapped by placer locations.

PROPERTY AND OWNERSHIP

RECEIVED
DEC 1 5 1955

The property is owned by E. M. Tharp, M. A. Tharp, Norman Boles, Norman Roger Boles, Janet L. Boles, Eugene B. Swanson, Helen V. Swanson, and Dwight F. Swanson, an association. The claims are recorded at Sonora, Calif.

There are no surface improvements or equipment on the property.

DEVELOPMENT AND GEOLOGY

A few shallow trenches have been excavated in bedded sandstone conglomerate which covers granite. The material is probably of glacial origin, and carbonaceous impurities have been partly replaced with slight uranium mineralization.

Samples taken by the engineer of the Atomic Energy Commission are as follows:

No.	Type - width	Radioactivity	
		eU_3O_8	cU_3O_8
1435	1.0 feet, vertical chip	0.16	0.13
1253	-	0.23	0.276

Mr. Swanson had some select specimens of the sandstone conglomerate at his home. Traces of autunite could be identified, but most of the material was not of economic grade.

David B. Slemmons, Professor of Geology, University of Nevada, reportedly mapped this area in 1955.

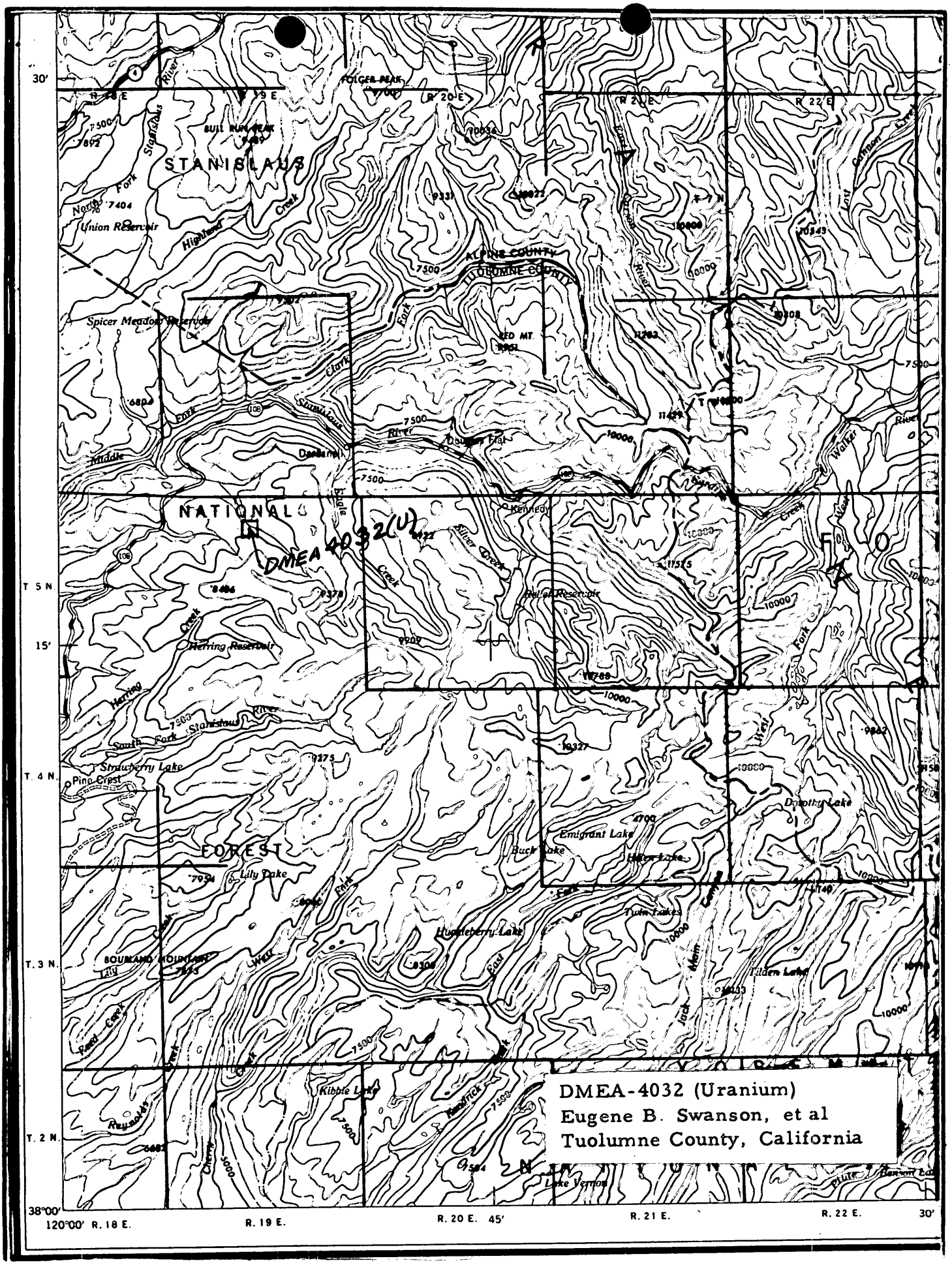

Fig. 1 LOCATION MAP CALIFORNIA

Surname Copy

700

Murphy
Ellis
Leehan
Rikagard
Martin
Hofman

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

NOV 15 1955

Mr. Eugene B. Swanson, et al.
82 Marie Drive
Hayward, California

Re: Docket No. DMEA-4032 (Uranium)
Autunite Uranium Placer and Lode Claims
Tuolumne County, California

Dear Mr. Swanson:

The application for assistance in exploring the subject claims in Tuolumne County, California, 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
U. S. Bureau of Mines
1605 Evans Avenue
Reno, Nevada

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

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/izm 11-9-55
cc to: Admr.'s Reading File
Docket
Code 700

Mr. Murphy
DMEA Field Team, Region II (2)

Surname Copy

700 Murphy Ellis Martin Johnson

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

NOV 15 1955

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4032 (Uranium)
Eugene B. Swanson, et al.
Autunite Uranium Placer and Lode Claims
Tuolumne County, California

Dear Mr. Ricker:

The captioned application is referred to Region II Field Team for investigation, a field examination, and recommendation. A copy of the application was forwarded to your office on October 26.

Enclosed are copies of memoranda, dated October 27 and November 8, 1955, by N. E. Nelson, USGS, and J. E. Crawford, USBM, respectively, relating to the subject application.

In the event the Field Team recommends a project to explore the subject claims, it should advise the Applicants that we will require the name, book, and page number of each recorded claim.

The application as submitted lacks maps showing the placer and lode claims and the location of the proposed work, and other information. However, we have had a number of applications from Mr. Swanson and have not been very successful in getting precise information from him. The application is being referred to the Field Team with the thought that the field examiners might possibly obtain the information which is lacking.

Sincerely yours,

W. S. Martin
By S S7
Chairman, Operating Committee

Enclosures

FMMurphy/izm 11-9-55

APPROVED:

By S S7
Member, Bureau of Mines

By S S7
Member, Geological Survey

cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700
Mr. Murphy

JECrawford, 3641
THKiilsgaard, 5224
JOHosted, 3210, GSA

11-8-55 [illegible]

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

November 8, 1955

Memorandum

RECEIVED
NOV 8 1955

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

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

Subject: Application for assistance, DMEA Docket 4032, Eugene B. Swanson, Autunite Uranium Placer Mining Claim (160), Tuolumne County, California

I have reviewed the attached application, DMEA Docket 4032, dated October 26, 1955, and received in this office on October 27, 1955. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant indicates that he has found economic-grade uranium mineralization consisting of autunite on four adjacent outcrops on Niagara Creek, in the Summit Mining District, California. He describes samples taken as containing 0.27 and 0.23 percent equivalent uranium, and states that A. J. Rambosek of the Atomic Energy Commission has inspected the claims. Sample analyses are apparently on file with Ernest E. Thurlow, Atomic Energy Commission, Salt Lake City; J. Grant Goodwin, mining geologist, State of California, San Francisco; and T. R. Graham, Bureau of Mines, Reno.

The applicant requests assistance with an exploration project requiring 6,000 feet of drilling at $5.00 per foot. No definite drilling plan has been established and described in the application.

Mr. Hosted determined that the AEC has conducted some investigations in the vicinity of Mr. Swanson's claims, but is not aware of whether or not work included the subject claims.

We suggest that the Field Team be requested to review the application, discuss it with Ernest E. Thurlow, AEC, Salt Lake City, and make a field examination if necessary.

John E. Crawford
John E. Crawford

Attachment

10/28/55 gla

IN REPLY REFER TO:

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

RECEIVED
OCT 27 1955

October 27, 1955

Re: DMEA 4032
Eugene B. Swanson, et al.
Autunite Uranium Lode
Tuolumne Co., Calif.
$30,000.00 - Uranium

Memorandum

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

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

Subject: Review of application.

The applicants are requesting assistance in exploring claims on which considerable work has been done by them. Four outcrops of radioactive material are known but all are too small to support mining operations so 6,000 feet of drilling is proposed to determine if minable amounts do exist.

No drilling program has been worked out and no map accompanies the application.

Samples of the ore have been sent out which showed as much as 1.76% U_3O_8. The ore occurs in conglomerate containing carbonized woody material.

The applicant appears to be competent to judge a prospect and handle an operation.

I recommend referral to the Field Team.

N. E. Nelson

N. E. Nelson

Subject: DMEA-4032
Re: Exploration

Eugene B. Swanson, et al.
82 Marie Drive
Hayward, California

October 26, 1955

Gentlemen:

The receipt of your application dated Ocotber 18, 19555 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4032 and referred to the Rare & 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

60932

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Mineral Deposits Branch
4 HOMEWOOD PLACE
MENLO PARK, CALIFORNIA

RECEIVED
OCT 26 1955

October 24, 1955

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: R. M. Smith, U. S. Geological Survey

Subject: Application for a DMEA loan - Eugene B. Swanson

Enclosed are four copies of an application for a DMEA loan from Eugene B. Swanson of Hayward, California.

The application was submitted to the Salt Lake City Exploration Branch of the Atomic Energy Commission and was referred to this office for attention.

Enclosures 4

R. M. Smith

Mineral Deposits Branch

RECEIVED
OCT 26 1955

October 24, 1955

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: R. M. Smith, U. S. Geological Survey

Subject: Application for a DMEA loan - Eugene B. Swanson

Enclosed are four copies of an application for a DMEA loan from Eugene B. Swanson of Hayward, California.

The application was submitted to the Salt Lake City Exploration Branch of the Atomic Energy Commission and was referred to this office for attention.

Enclosures 4

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
OCT 26 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. 4-032
Metal or Mineral Uranium
Date Received 10-26-55
Estimated Cost 33,000. ?
Participation (Government %) ?

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: EUGENE B. SWANSON 82-MARIE DRIVE HAYWARD, CALIFORNIA JEFFERSON 7-9008 MEMBER OF AN ASSOCIATION OF NINE OWNERS OF SAID (160) ACRE PLACER CLAIM. E.M. THARP M.A. THARP M.L. THARP, NORMAN BOLES NORMAN ROGER BOLES JANET L. BOLES, EUGENE B. SWANSON HELEN V. SWANSON DWIGHT F. SWANSON. AN ASSOCIATION

(*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. E.M. THARP AND NORMAN BOLES AND FAMILY

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. BOX. 328 PORTERVILLE, CALIF.

(*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 S.E. ¼ OF THE S.W. ¼ OF SEC. 4; AND THE S.W. ¼ OF THE S.E. ¼ OF SEC. 4; ALSO THE N.E. ¼ OF THE N.W. ¼ OF SEC. 9, AND THE N.W. ¼ OF THE N.E. ¼ OF SEC. 9, ALL IN TOWNSHIP 5, NORTH--- RANGE 19, EAST--- M.D.B.M. CONTAINING 160 ACRES AND LOCATED IN THE SUMMIT MINING DISTRICT ON NIAGARA CREEK. ALSO LODE CLAIMS 5-6 (TUOLUMNE COUNTY, CALIFORNIA)

(*b*) State any mine name by which the property is known. AUTUNITE URANIUM PLACER MINING CLAIM (160)

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise AUTUNITE LODE CLAIMS NO. 5 AND 6. OWNER WITH 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
ALL ROAD WORK IN AND PAID FOR.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. NOT YET RETURNED FROM SONORA COUNTY RECORDER

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. NONE -- DRIVE TO ANY OUTCROP

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

(*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. INFORMATION ATTATCHED

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. SONORA, CALIF. 16—66551-1

APPROX. 50 MILES FROM SUPPLIES, ETC.

OUR CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING HIS OWN SUPPLIES AND GETTING OUR DRILLING DONE ON TIME, UNLESS SOMETHING UNFORSEEN HAPPENS IN WHICH CASE I WILL BE RESPONSIBLE FOR THE COMPLETION OF THE JOB.

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

(*c*) The work will start within 0 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. CONTRACTOR TO CARRY OUT JOB.

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 DRILLING CONTRACT

(*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.). ONE CONTRACT ONLY 6000' OF DRILLING @ $5.00 PER FOOT NO OTHER CONTRACT NECESSARY.

(*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. SUPPLIED BY DRILLING CONTRACTOR

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. NONE

(*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. NONE

(*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. NONE CONTRACTOR TO FURNISH ALL

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. PLEASE INCLUDE $3000.00 FOR CONTINGENCIES WHICH WE MAY NOT NEED, BUT JUST IN CASE.

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. NONE TO BE INCLUDED

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)?

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

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

Explain in detail on acompanying paper. I WILL PAY 25% OF THE CONTRACT PRICE AS THE BILL COME DUE AND ASSIST IN ANYOTHER WAY I CAN TO FURTHER THE DEVELOPMENT OF THIS PROPERTY.

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 OCTOBER 18, 1955

Eugene B. Swanson
(Applicant)

By SAME (OWNER)

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

AUTUNITE U[illegible]NIUM LODE CLAIMS
NO. 5 AND NO. 6

[illegible]CTOBER 15, 1955

AUTUNITE URANIUM PLACER MINING CLAIM
(160[illegible] ACRES

EUGENE B. SWANSON
82-MARIE DRIVE
HAYWARD, CALIFORNIA
JEFFERSON 7-9008

RECEIVED
OCT 26 1955

SUPPLEMENT TO D.M.E.A. FORM MF-103

(4)-(A) PROSPECTING THIS PROPERTY WITH SCINTILLATION EQUIPMENT SINCE JULY 5, 1955 HAS DISCLOSED TO US SEVERAL ORE OUTCROPS OF COMMERCIAL GRADE, BUT TOO SMALL TO MINE. WE ATTEMPED TO OPEN UP THE ORE OUTCROPS WITH A D-8 BULLDOZER, THE SEDIMANRY FORMATION NEEDS DRILLING AND BLASTING. WE HAVE DRILL ROADS OFF THE MAIN LOGGING ROAD THAT LEADS TO OUR PROPERTY, ALL ROADS ARE GOOD, EQUIPMENT MAY MOVE TO ALMOST ANY LOCATION WITH EASE, THIS PRELIMINARY ROAD WORK NECESSARY FOR DRILLING EQUIPMENT HAS BEEN COMPLETED AND PAID FOR AND NOT PART OF THIS APPLICATION. WE HAVE NO MINING PROGRAM SET UP AS YET, THIS IS A NEW DISCOVERY IN A NEW AREA AS FAR AS I KNOW THERE HAS NEVER BEEN A MINE OF ANY KIND WITHIN 10 MILES OF THIS AUTUNITE URANIUM OUTCROP, OTHERS NOW HAVE OUTCROPS NEAR US.

((B) ONLY ASSAYS FROM SAMPLES AT THIS TIME ARE ON RECORD WITH MR. ERNEST E. THURLOW, SALT LAKE EXPLORATION BR. (cU308)--0.276) (eU308)--0.23) MR. A.J. RAMBOSEK A.E.C. REP: OF 1605 EVANS AVENUE RENO, NEVADA HAS INSPECTED OUR PROPERTY.

(C) SAMPLE SENT TO DIVISION OF MINES FERRY BUILDING SAN FRANCISCO 11, CALIFORNIA LABORATORY REPORT NO. F-7635 AUGUST 25, 1955:
THIS MATERIAL HAS BEEN CLASSIFIED AS CONGLOMERATE, A SEDIMENTARY ROCK, COMPOSED OF DETRITAL MINERAL GRAINS AND ROCK PEBBLES. MINOR AMOUNTS OF FLUORESCENT OPALINE SILICA AND AUTUNITE (CALCIUM, URANIUM PHOSPHATE) ARE PRESENT. REPORT BY J.GRANT GOODWIN MINING GEOLOGIST STATE OF CALIFORNIA.
SAMPLE ALSO SENT TO UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF MINES 1605 EVANS AVENUE RENO NEVADA. (AUTUNITE GROUP) CONGLOMERATE WITH CARBONIZED WOODY TISSUE. NO AUTUNITE WAS NOTED, THE RADIOACTIVITY BEING CAUSED BY SOME OTHER UNIDENTIFIED MINERAL. IT CONTAINS RADIOACTIVITY EQUIVALENT TO 0.23 PERCENT U308; BY T.R. GRAHAM, CHIEF DIVISION OF MINERAL TECHNOLOGY REGION 11. (REF: B-15982)
PERSONAL REPORT: A SEDIMENTARY FORMATION HIGHLY CARBONIZED NEAR ORE OUTCROPS THAT ASSAY FROM .12 TO 1.76% U308 URANIUM OXIDE AUTUNITE. VOLCANIC ASH AND SANDSTONE, VERY SIMULARE TO THE MORRISON FORMATION OF THE COLORADO PLATEAU. WE WISH TO DRILL NEAR THE CONTACT POINT OF THE SEDIMENTARY FORMATION AND THE GRANIT, AND THE BASIN OR VALLEY WHICH COULD HAVE TRAPPED THIS WATER SOLUABLE ORE IN A LARGE BED. PROPOSED DRILLING TO BE DONE WITHIN A 1000' RADIUS OF THE INTERSECTION OF NIAGARA CREEK AND EAGLE MEADOW ROAD SECTIONS 4 AND 9.RANGE 19 EAST TOWNSHIP 5, NORTH M.D.B.M. TUOLUMNE COUNTY, CALIFORNIA. ROTARY DRILLING TAKING FOOT SAMPLES IN MINERALIZED ZONES FOR ASSAYS, AND OFFICIAL REPORTS ON PROGRESS. WE WISH TO EXPLORE BECAUSE WE CAN'T MINE WHAT WE HAVE SHOWING, THIS PROPERTY MERRITS A DRILLING PROGRAHM BEFORE ANY FURTHER WORK IS DONE.

(D) ACCESSIBILITY IS VERY GOOD NO TROUBLE THEIR WE HAVE ALL THE ROADS NEEDED. SUPPLY AND RESIDENCE POINTS ARE SONORA, CALIFORNIA (COUNTY SEAT). DISTANCE TO SHIPPING?

(E) EVERYTHING WE NEED IS AVAILABLE EXCEPT THE ROTARY DRILLING RIG, WHICH MAY HAVE TO COME FROM MOAB UTAH, ARRANGEMENTS ARE BEING MADE AT THIS TIME.

(5)(B) WE HAVE FOUR ORE OUTCROPS WITHIN OUR 1000' RADIUS APPROX. 400' APART ALL ON RIMS DRAINING INTO THE BASIN WITH ACCURATE SUBDIVISION RECORDING ON RECORD AT SONORA CALIFORNIA. A MAP OF EXACT DRILLING TO BE DONE WOULD NOT BE ACCURATE, BECAUSE THE FIRST FEW DRILL HOLES WILL TELL US WHERE TO PLACE THE REST FOR EXPLORATION. WE PROPOSE 6000' OF DRILLING @ $5.00 PER FOOT DRILLING CONTRACTOR TO FURNISH EVERYTHING NEEDED AND TO COMPLET THE JOB AS REQUIRED BY THE A.E.C. WITHOUT ADDITIONAL EXPENCE FOR ENGINEERS AND GEOLOGICAL REPORTS.

(D) APPLICANT HAS BEEN ENGAGED IN ALL PHASES OF URANIUM MINING AND ROTARY DRILLING OPERATIONS ON THE COLORADO PLATEAU FOR SEVERAL YEARS. (OWNER OF THE URANIUM GIRL MINE ON LASEL CREEK MONTROSE COUNTY, COLORADO. AQUAINTED WITH MR. CARTER OF THE U.S.G.S. STATIONED ON LASEL CREEK, IN UTAH.
JOB TO BE SUPERVISED BY MR. FRANCIS H. FREDERICK(MINING GEOLOGIST) OR ASSIGNEE. 503 MARKET STREET ROOM 700 SAN FRANCISCO 5, CALIF. PHONE SUTTER 1-7982

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 51-R1035.2.

RECEIVED
OCT 26 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. 4032
Metal or Mineral Uranium
Date Received 10-26-55
Estimated Cost ~~33,000.00~~
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address. EUGENE D. SWANSON 82-MARIE DRIVE HAYWARD, CALIFORNIA JEFFERSON 7-9008 MEMBER OF AN ASSOCIATION OF MINE OWNERS OF SAID (160) ACRE PLACER CLAIM. E.M. THARP L.A. THARP H.L. THARP, NORMAN BOLES NORMAN ROGER BOLES JANET L. BOLES, EUGENE D. SWANSON MELVIN V. SWANSON DWIGHT F. SWANSON, AN ASSOCIATION

(*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. E.M. THARP AND NORMAN BOLES AND FAMILY

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. BOX. 328 PORTERVILLE, CALIF.

(*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 S.E. ¼ OF THE S.W. ¼ OF SEC. 4; AND THE S.W. ¼ OF THE S.E. ¼ OF SEC. 4; ALSO THE N.E. ¼ OF THE N.W. ¼ OF SEC. 9, AND THE N.W. ¼ OF THE N.E. ¼ OF SEC. 9, ALL IN TOWNSHIP 5, NORTH--- RANGE 19, EAST--- M.D.B.M. CONTAINING 160 ACRES AND LOCATED IN THE SUMMIT MINING DISTRICT ON NIAGARA CREEK. ALSO LODE CLAIMS 5-6 (TUOLUMNE COUNTY, CALIFORNIA)

(*b*) State any mine name by which the property is known. AUTUNITE URANIUM PLACER MINING CLAIM (160)

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise AUTUNITE LODE CLAIMS NO. 5 AND 6. OWNER WITH 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
ALL ROAD WORK IN AND PAID FOR.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. NOT YET RETURNED FROM SONORA COUNTY RECORDER

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. NONE -- DRIVE TO ANY OUTCROP

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

(*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. INFORMATION ATTACHED

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. SONORA, CALIF. APPROX. 50 MILES FROM SUPPLIES, ETC.

16—66551-1

OUR CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING HIS OWN SUPPLIES AND GETTING OUR DRILLING DONE ON TIME, UNLESS SOMETHING UNFORSEEN HAPPENS IN WHICH CASE I WILL BE RESPONSIBLE FOR THE COMPLETION OF THE JOB.

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

(*c*) The work will start within 0 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. CONTRACTOR TO CARRY OUT JOB.

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 DRILLING CONTRACT

(*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.). ONE CONTRACT ONLY 6000' OF DRILLING @ $5.00 PER FOOT NO OTHER CONTRACT

(*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. SUPPLIED BY DRILLING CONTRACTOR

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. NONE

(*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. NONE

(*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. NONE CONTRACTOR TO FURNISH ALL

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. PLEASE INCLUDE $3000.00 FOR CONTINGENCIES WHICH WE MAY NOT NEED, BUT JUST IN CASE.

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. NONE TO BE INCLUDED

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)?

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

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

Explain in detail on acompanying paper. I WILL PAY 25% OF THE CONTRACT PRICE AS THE BILL COMES DUE AND ASSIST IN ANYOTHER WAY I CAN TO FURTHER THE DEVELOPMENT OF THIS PROPERTY.

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 OCTOBER 18, 1955

Eugene B. Swenson
(Applicant)

By SAME (OWNER)

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

AUTUNITE URANIUM LODE CLAIMS
NO. 5 AND NO. 6

OCTOBER 15, 1955

EUGENE B. SWANSON
82-MARIE DRIVE
HAYWARD, CALIFORNIA
JEFFERSON 7-9008

RECEIVED
OCT 26 1955

AUTUNITE URANIUM PLACER MINING CLAIM
(160) ACRES

SUPPLEMENT TO D.M.E.A. FORM MF-103

(4)-(A) PROSPECTING THIS PROPERTY WITH SCINTILLATION EQUIPMENT SINCE JULY 5, 1955 HAS DISCLOSED TO US SEVERAL ORE OUTCROPS OF COMMERCIAL GRADE, BUT TOO SMALL TO MINE. WE ATTEMPED TO OPEN UP THE ORE OUTCROPS WITH A D-8 BULLDOZER, THE SEDIMANRY FORMATION NEEDS DRILLING AND BLASTING. WE HAVE DRILL ROADS OFF THE MAIN LOGGING ROAD THAT LEEDS TO OUR PROPERTY, ALL ROADS ARE GOOD, EQUIPMENT MAY MOVE TO ALMOST ANY LOCATION WITH EASE, THIS PRELIMINARY ROAD WORK NECESSARY FOR DRILLING EQUIPMENT HAS BEEN COMPLETED AND PAID FOR AND NOT PART OF THIS APPLICATION. WE HAVE NO MINING PROGRAM SET UP AS YET, THIS IS A NEW DISCOVERY IN A NEW AREA AS FAR AS I KNOW THERE HAS NEVER BEEN A MINE OF ANY KIND WITHIN 10 MILES OF THIS AUTUNITE URANIUM OUTCROP, OTHERS NOW HAVE OUTCROPS NEAR US.

(-(B) ONLY ASSAYS FROM SAMPLES AT THIS TIME ARE ON RECORD WITH MR. ERNEST E. THURLOW, SALT LAKE EXPLORATION BR. (eU308)--0.276) (eU308)--0.23) MR. A.J. RAMBOSEK A.E.C. REP: OF 1605 EVANS AVENUE RENO, NEVADA HAS INSPECTED OUR PROPERTY.

(C) SAMPLE SENT TO DIVISION OF MINES FERRY BUILDING SAN FRANCISCO 11, CALIFORNIA LABORATORY REPORT NO. F-7635 AUGUST 25, 1955:
THIS MATERIAL HAS BEEN CLASSIFIED AS CONGLOMERATE, A SEDIMENTARY ROCK, COMPOSED OF DETRITAL MINERAL GRAINS AND ROCK PEBBLES. MINOR AMOUNTS OF FLUORESCENT OPALINE SILICA AND AUTUNITE (CALCIUM, URANIUM PHOSPHATE) ARE PRESENT. REPORT BY J.GRANT GOODWIN MINING GEOLOGIST STATE OF CALIFORNIA.
SAMPLE ALSO SENT TO UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF MINES 1605 EVANS AVENUE RENO NEVADA. (AUTUNITE GROUP) CONGLOMERATE WITH CARBONIZED WOODY TISSUE. NO AUTUNITE WAS NOTED, THE RADIOACTIVITY BEING CAUSED BY SOME OTHER UNIDENTIFIED MINERAL. IT CONTAINS RADIOACTIVITY EQUIVALENT TO 0.23 PERCENT U308; BY T.R. GRAHAM, CHIEF DIVISION OF MINERAL TECHNOLOGY REGION 11. (REF: B-15982)
PERSONAL REPORT: A SEDIMENTARY FORMATION HIGHLY CARBONIZED NEAR ORE OUTCROPS THAT ASSAY FROM .12 TO 1.76% U308 URANIUM OXIDE AUTUNITE. VOLCANIC ASH AND SANDSTONE, VERY SIMULARE TO THE MORRISON FORMATION OF THE COLORADO PLATEAU. WE WISH TO DRILL NEAR THE CONTACT POINT OF THE SEDIMENTARY FORMATION AND THE GRANIT, AND THE BASIN OR VALLEY WHICH COULD HAVE TRAPPED THIS WATER SOLUABLE ORE IN A LARGE BED. PROPOSED DRILLING TO BE DONE WITHIN A 1000' RADIUS OF THE INTERSECTION OF NIAGARA CREEK AND EAGLE MEADOW ROAD SECTIONS 4 AND 9.RANGE 19 EAST TOWNSHIP 5, NORTH M.D.B.M. TUOLUMNE COUNTY, CALIFORNIA. ROTARY DRILLING TAKING FOOT SAMPLES IN MINERALIZED ZONES FOR ASSAYS, AND OFFICIAL REPORTS ON PROGRESS. WE WISH TO EXPLORE BECAUSE WE CAN'T MINE WHAT WE HAVE SHOWING, THIS PROPERTY MERRITS A DRILLING PROGRAHM BEFORE ANY FURTHER WORK IS DONE.

(D) ACCESSIBILITY IS VERY GOOD NO TROUBLE THEIR WE HAVE ALL THE ROADS NEEDED. SUPPLY AND RESIDENCE POINTS ARE SONORA, CALIFORNIA (COUNTY SEAT). DISTANCE TO SHIPPING?

(E) EVERYTHING WE NEED IS AVAILABLE EXCEPT THE ROTARY DRILLING RIG, WHICH MAY HAVE TO COME FROM MOAB UTAH, ARRANGEMENTS ARE BEING MADE AT THIS TIME.

(5)(B) WE HAVE FOUR ORE OUTCROPS WITHIN OUR 1000' RADIUS APPROX. 400' APART ALL ON RIMS DRAINING INTO THE BASIN WITH ACCURATE SUBDIVISION RECORDING ON RECORD AT SONORA CALIFORNIA. A MAP OF EXACT DRILLING TO BE DONE WOULD NOT BE ACCURATE, BECAUSE THE FIRST FEW DRILL HOLES WILL TELL US WHERE TO PLACE THE REST FOR EXPLORATION. WE PROPOSE 6000' OF DRILLING @ $5.00 PER FOOT DRILLING CONTRACTOR TO FURNISH EVERYTHING NEEDED AND TO COMPLET THE JOB AS REQUIRED BY THE A.E.C. WITHOUT ADDITIONAL EXPENCE FOR ENGINEERS AND GEOLOGICAL REPORTS.

(D) APPLICANT HAS BEEN ENGAGED IN ALL PHASES OF URANIUM MINING AND ROTARY DRILLING OPERATIONS ON THE COLORADO PLATEAU FOR SEVERAL YEARS. (OWNER OF THE URANIUM GIRL MINE ON LASEL CREEK MONTROSE COUNTY, COLORADO. AQUAINTED WITH MR. CARTER OF THE U.S.G.S. STATIONED ON LASEL CREEK, IN UTAH.
JOB TO BE SUPERVISED BY MR. FRANCIS H. FREDERICK(MINING GEOLOGIST) OR ASSIGNEE. 503 MARKET STREET ROOM 700 SAN FRANCISCO 5, CALIF. PHONE SUTTER 1-7988

FILE COPY
Supervisor

Crawford
Zabel

November 8, 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: Application for assistance, DMEA Docket 4032, Eugene B. Swanson, Autunite Uranium Placer Mining Claim (160), Tuolumne County, California

I have reviewed the attached application, DMEA Docket 4032, dated October 26, 1955, and received in this office on October 27, 1955. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant indicates that he has found economic-grade uranium mineralization consisting of autunite on four adjacent outcrops on Niagara Creek, in the Summit Mining District, California. He describes samples taken as containing 0.27 and 0.23 percent equivalent uranium, and states that A. J. Rambosek of the Atomic Energy Commission has inspected the claims. Sample analyses are apparently on file with Ernest E. Thurlow, Atomic Energy Commission, Salt Lake City; J. Grant Goodwin, mining geologist, State of California, San Francisco; and T. R. Graham, Bureau of Mines, Reno.

The applicant requests assistance with an exploration project requiring 6,000 feet of drilling at $5.60 per foot. No definite drilling plan has been established and described in the application.

Mr. Hosted determined that the AEC has conducted some investigations in the vicinity of Mr. Swanson's claims, but is not aware of whether or not work included the subject claims.

We suggest that the Field Team be requested to review the application, discuss it with Ernest E. Thurlow, AEC, Salt Lake City, and make a field examination if necessary.

JECrawford:ds
Copy to: Div of Minerals
Br of Rare and Precious Metals
J O Hosted, AEC - 2
T Kiilsgaard, USGS
Attachment J E Crawford
Files

John E. Crawford