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DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3704

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Murphy

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

August 4, 1955

Summary of Proposed Project

Object:	Denial of application for an exploration project.
Docket No:	DMEA-3704
Commodity:	Uranium and rare earths
Applicant:	Partnership: Woodrow V. Mousley 12412 Port Road, Los Angeles 66, Calif. Chris Petersen 7723 S. Harvard Blvd., Los Angeles 44, Calif.
Property:	Purchase agreement - 3 claims, Eagle Rock, and Eagle Rock Nos. 1 and 2 in sec. 35, T. 12 S., R. 12 W., S. L. B. and M., Juab County, Utah.
Date of Application:	December 10, 1954
Copy of Application:	Received in Washington: March 2, 1955
Referred to Field Team:	March 18, 1955
Field Team Report:	Transmitted July 18, 1955
Amount of Application:	$14,350.00
Work Proposed:	Core drill eight (8) 200-foot diamond-drill holes to explore Uranium-fluorite vein at depth.

Estimated Cost of Project:	1600 feet drilling @ $8.50/ft.	$13,600.00
	Consultant, part time 3 months @ $250.00/mo.	750.00
	Total	$14,350.00
	Government participation @ 75%	$10,762.50

Region III Field Team Report (excerpts):

Geological Survey - R. W. Osterstock

The uranium mineralization on the Eagle Rock claims is intimately associated with fluorite boxwork occurring in a band about 1 foot wide on the south wall of the northeast trending vein. The country rock is northeast striking, northwest dipping, dolomitized Middle Paleozoic limestone. Rhyolite porphyry outcrops in a low range of hills about ¼-mile east of the claim area and one small area of rhyolite is noted on the Eagle Rock claim. It is suggested that a circular topographic depression just north of the vein zone may represent the weathered-down top of a rhyolite plug. There is no convincing evidence of the existance of such a plug nor is there any radiometric evidence of uranium mineralization beneath the slopewash covered depression.

The vein zone itself does not exhibit sufficiently encouraging evidence to justify any great degree of either lateral or vertical persistance.

Bureau of Mines - M. H. Howes

Uranium-bearing fluorite occurs in a vertically dipping vein along the southeast edge of the large, slumped area. A trench, 2 shafts, and bulldozer stripping have exposed the vein for approximately 150 feet. A scintillation counter shows radioactivity for a distance of about 100 feet along the vein. Mineralization exposed in the vein is irregular and lenticular. Uranium appears as a canary-yellow, powdery coating on the fluorite, which occurs as a dark-purple mineral in a fine boxwork structure formed by silica. Because of a high percentage of silica, the ore is hard and resistant.

It is estimated that 200 tons of ore containing 0.17 percent U_3O_8 and 30 to 40 percent CaF_2, with considerable silica, constitute the inferred ore reserves on the Eagle Rock property.

Conclusion and Recommendations

The possibility of encountering commercial ore bodies of uranium and rare earths on the Eagle Rock claims is not encouraging, because of the irregular occurrence of the exposed ore deposition and because of the remote possibilities of the apparent structural controls. All fluorite so far disclosed on the property contains a high percentage of silica, which is not desirable. There is no indication that rare earths will be found in greater amounts than 0.1 per cent.

A communication, dated April 20, 1955, from Ernest E. Thurlow, Chief, Salt Lake Exploration Branch, Division of Raw Materials, Atomic EnergyCommission, states that the Marysvale purchasing depot has been instructed to refuse fluorite-type uranium ores because they are not amenable to present treatment processes. Therefore, even if uraniferous fluorite ores are discovered in commercial quantities there is no market for them at the present time.

It is recommended that the application for Government aid to explore for uranium and rare earths on the Eagle Rock property be denied.

Commodity Committee Members' Comments:

U. S. Bureau of Mines

John E. Crawford, July 29, 1955.

Concurs with Field Team in recommending denial.

U. S. Geological Survey

W. P. Williams, July 29, 1955

Mr. Williams points out that the field examination report presents convincing evidence that the proposed exploration would not result in a significant discovery of uranium or rare earths. He also mentions that the AEC has ceased buying uranium-fluoride type ores.

Rare and Miscellaneous Metals Division

F. M. Murphy, August 4, 1955

The work done by the applicant to explore the subject property has exposed enough of the vein system for a fair geological examination.

This Division concurs with the Field Team that the possibilities of making a significant discovery by the proposed drilling are meager, and therefore recommends that the subject application be denied. However, if future work by the applicant on the subject property discloses that the vein system is stronger than presently indicated, a new application might be considered.

If sufficient ore is found in the area it is likely that the milling and concentration of such ores could be worked out.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

7/29/55 gla

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

RECEIVED
JUL 29 1955

July 29, 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 3704, Woodrow V. Mousley and Chris Peterson, partnership, Eagle Rock claims, Juab County, Utah

I have reviewed the Field Team report of examination, Eagle Rock claims, DMEA Docket 3704; 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.

RECEIVED
JUL 29 1955

July 29, 1955

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Uranium Commodity Committee, Room 4445

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

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John E. Crawford

8/2/55 gla

IN REPLY REFER TO

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

RECEIVED
AUG - 1 1955

July 29, 1955

Memorandum

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

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

Subject: Review of Report of Field Examination, DMEA Docket No. 3704 (Uranium and Rare Earths), Woodrow V. Mousley and Chris Peterson, partnership, Eagle Rock claims, Juab County, Utah.

R. W. Osterstock, in his report of field examination of the above-referenced property, presents convincing evidence that an exploration project on the property would not result in discovering significant new reserves of rare earths or uranium ore.

As pointed out in the report the U. S. Atomic Energy Commission has ceased buying uranium-fluorite type ores because of treatment difficulties -- so the stuff wouldn't be ore even if it were discovered.

I agree with Osterstock's recommendation that the application for DMEA assistance be denied.

WWilliams

W. P. Williams

IN REPLY REFER TO:

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

July 29, 1955

Memorandum

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I agree with Osterstock's recommendation that the application for DMEA assistance be denied.

WPW

W. P. Williams

WPWilliams:iml
G-7/29/55

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.

RECEIVED
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July 29, 1955

Memorandum

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

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

Subject: Review of Report of Field Examination, DMEA Docket No. 3704 (Uranium and Rare Earths), Woodrow V. Moseley and Chris Peterson, partnership, Eagle Rock claims, Juab County, Utah.

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WPW

W. P. Williams

WPWilliams:iml
G-7/29/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
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J. E. Crawford, 3641
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IN REPLY REFER TO:

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

RECEIVED

July 29, 1955

Memorandum

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

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As pointed out in the report the U. S. Atomic Energy Commission has ceased buying uranium-fluorite type ores because of treatment difficulties -- so the stuff wouldn't be ore even if it were discovered.

I agree with Osterstock's recommendation that the application for DMEA assistance be denied.

WPW

W. P. Williams

WPWilliams:iml
G-7/29/55

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

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

224 New Customhouse
Denver 2, Colorado

July 18, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3704 (Uranium and Rare Earths), Woodrow V. Mousley and Chris Peterson, partnership, Eagle Rock claims, Juab County, Utah

Enclosed are the original and three copies of the report pertaining to the above application.

The probability of discovering a significant deposit of uranium ore is remote. We concur in the recommendation of the field examiners that the application be denied.

DMEA Field Team, Region III

W. M. Traver

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
7-25-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

TRANSMITTED
JUL 18 1955

DMEA
Date Rec'd
JUL 14 1955
BUREAU OF MINES
Denver, Colorado

July 12, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3704 (Uranium and Rare Earths), Woodrow V. Mousley and Chris Petersen Partnership, Eagle Rock claims, Juab County, Utah

Enclosed are original and 10 copies of an engineering report pertaining to examination of the subject property for DMEA loan assistance. Also included are the required copies of a separate section, Summary, Conclusions and Recommendations, and a copy of the brochure. The engineering report was prepared by M. H. Howes as a result of an examination made April 5, 1955.

Mineralization on the Eagle Rock claims occurs in dolomite associated with considerable chert. Uranium appears as a powdery coating on dark-purple fluorite. Rare earth elements are present in negligible amounts. The principal structure is a vertical-dipping vein exposed by bulldozer stripping for approximately 150 feet along the strike. Mineralization appears to be in some manner associated with slump areas in the dolomite. The slump areas suggest that rhyolite porphyry may have intruded the sediments, as in other areas of the Topaz Mountains.

The examining engineer concludes that the possibility of encountering significant ore bodies of uranium and rare earths on the Eagle Rock property is not encouraging. Mineralization is extremely irregular in occurrence and the structural control is not well defined. All fluorite exposed on the property contains a high percentage of silica which is undesirable. There is no evidence to indicate that rare earth elements will be found in significant amounts.

The Atomic Energy Commission is, at present, refusing purchase of the fluorite-type uranium ores because they are not amenable to present treatment processes.

The examining engineer recommends that the application for DMEA assistance on the Eagle Rock property be denied. I concur in this recommendation.

Reviewed by
DMEA OFFICE OF GEOLOGY
7-25-55

Members of the Atomic Energy Commission were consulted relative to information concerning the exploratory proposals on the Eagle Rock property.

Stephen R Wilson

Stephen R. Wilson

Enclosures

cc: J. Bruce Clemmer

TRANSMITTED
JUL 18 1955

DMEA
Date Rec'd
JUL 14 1955
BUREAU OF MINES
Denver, Colorado

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

An application, dated December 10, 1954, for Government aid, under docket No. DMEA-3704, to conduct an exploratory project has been submitted by the partnership of Woodrow V. Mousley and Chris Petersen. The proposed project, estimated to cost $14,350, consists of drilling eight 200-foot diamond drill holes, to explore for uranium and rare earths on the Eagle Rock claims, Juab County, Utah. The property was examined April 5, 1955 by M. H. Howes, Bureau of Mines, and April 12, 1955 by R. W. Osterstock, Geological Survey.

The applicant is purchasing the property, which consists of 3 lode mining claims, from Earl and Al Willden, Delta, Utah. The claims are located in the Topaz Mountain area of the Thomas Range, Juab County, Utah.

Country rock on the property is predominantly dolomite, which contains abundant black, tan and white chert in a boxlike structure. Rhyolite porphyry is exposed about one-fourth of a mile east of the claims. Topographic depressions or slumped areas suggest the possible existence of rhyolite porphyry plugs intrusive into the sediments.

Uranium-bearing fluorite occurs in a vertical, northeasterly striking vein zone, on the southeast side of the largest depression on the Eagle Rock claims, and is exposed for a distance of about 100 feet by open cuts and shafts. The ore pods are irregular and

Entered by
DMEA Geologist
7-25-55

lenticular. Uranium appears as a canary-yellow, powdery coating in sporadic dissemination on the fluorite, which occurs as a dark-purple mineral in a fine boxwork structure formed by silica.

A shipment of 7.565 tons of uranium-bearing fluorite was made from the claims to the Atomic Energy Commission depot at Marysvale, Utah. A settlement sheet covering sale of the ore shows an assay value of 0.17 percent U_3O_8 and 0.04 percent V_2O_5. A stockpile of 5 tons of similar-grade ore remains on the claims. It is estimated that the property contains about 15 tons of ore in sight and approximately 200 tons of inferred reserves, which will assay from 0.10 to 0.20 percent U_3O_8 and up to 40 percent CaF_2, with negligible amounts of rare earths.

It is concluded that evidence indicating commercial ore deposits of uranium and rare earths is not strong enough to justify Government aid in an exploratory project on the Eagle Rock property.

The Atomic Energy Commission has stated that no more fluorite-type uranium ores will be purchased by the Marysvale purchasing depot, because these ores are not amenable to present treatment processes.

Recommendation is made that the Mousley and Petersen application for exploratory aid be denied.

MOUSLEY AND PETERSON
EAGLE ROCK CLAIMS
JUAB COUNTY, UTAH
DMEA-3704
Uranium and Rare Earths

Engineering Report

By M. H. Howes
Mining Engineer
Bureau of Mines

Released by
DMEA MINING COMMITTEE
7-25-55
(Date)

MOUSLEY AND PETERSON
EAGLE ROCK CLAIMS
JUAB COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Mousley and Petersen, Eagle Rock claims, Juab County, Utah
Fig. 2 Thomas Range fluorite district, Juab County, Utah
Fig. 3 Claim map, showing proposed drill holes

INTRODUCTION

Woodrow V. Mousley and Chris Petersen, a partnership, applied December 10, 1954, for Government aid in an exploratory project on the Eagle Rock claims, Juab County, Utah, under docket No. DMEA-3704. The applicant proposes to drill 8 diamond drill holes, each 200 feet deep, at locations shown on figure 3, in search of uranium and rare earth ores. The program is estimated to cost $14,350 for 1,600 feet of drill hole at $8.97 per foot, and is to be completed in 3 months. The property consists of 3 full-sized lode mining claims upon which the applicant has an option and purchase agreement.

The proposed project area was examined by M. H. Howes, Bureau of Mines, April 5, 1955, and by R. W. Osterstock, Geological Survey, April 12, 1955, to determine the feasibility of the proposed exploratory work and to appraise the estimated costs and the engineering aspects of the job.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property is located in the Topaz Mountain area on the east slope of a low ridge called Middle Mountain, situated in the valley separating the western and eastern parts of the Thomas Range. The proposed project area lies in the vicinity of unsurveyed Sec. 35, T. 12 S., R. 12 W., S.L.B. and M., in Juab County, Utah, about 51 miles northwesterly from Delta, Utah (fig. 1).

The climate is semi-arid. Summers are hot and dry and winters are cold with moderate snowfall. Vegetation is scarce and consists principally of pinion pines, cedar trees and desert plants.

HISTORY AND PRODUCTION

The claims were located in 1948. A uranium-bearing fluorite vein was exposed by early trenching on the property. This vein was opened by 2 shallow shafts from which a shipment of 7.565 tons of ore assaying 0.17 percent U_3O_8 and 0.04 percent V_2O_5 was made to the Atomic Energy Commission depot at Marysvale, Utah on July 30, 1954. Approximately 5 tons of similar ore is stockpiled at the shafts. No additional ore has been produced from the Eagle Rock claims.

OWNERSHIP AND EXTENT

The Eagle Rock property consists of 3 unpatented lode mining claims, the Eagle Rock, Eagle Rock No. 1 and Eagle Rock No. 2, all of which are recorded in Book 137, Page 534, in the Juab County Court House, Nephi, Utah (fig. 3). The property is being purchased by the partnership of Woodrow V. Mousley, 12412 Port Road, Los Angeles 66, Calif., and Chris Petersen, 7723 S. Harvard Blvd., Los Angeles 44, Calif., from Earl and Al Willden, Delta, Utah.

DESCRIPTION OF THE DEPOSITS

Rocks exposed in the vicinity of the Eagle Rock claims consist mainly of fine-grained, dense, gray dolomite, which contains a fine network of chert. The dolomite strikes northeasterly and dips about

30° to the northwest. In the central portion of the property is a large and somewhat-circular-shaped depression or slumped area which is covered by light-colored, leached and altered material. Smaller slumped areas of the same appearance occur on other parts of the claims. The dolomite surrounding the slumped areas is brecciated and contains as much as 60 percent chert, characterized by a boxlike structure. These leached, circular, slumped areas suggest that rhyolite porphyry plugs may have intruded the sediments, as in other areas of the Topaz Mountains.

Uranium-bearing fluorite occurs in a vertically dipping vein along the southeast edge of the large, slumped area. A trench, 2 shafts, and bulldozer stripping have exposed the vein for approximately 150 feet. A scintillation counter shows radioactivity for a distance of about 100 feet along the vein. Mineralization exposed in the vein is irregular and lenticular. Uranium appears as a canary-yellow, powdery coating on the fluorite, which occurs as a dark-purple mineral in a fine boxwork structure formed by silica. Because of a high percentage of silica, the ore is hard and resistant.

A grab sample of the 5-ton stockpile at the shafts assayed as follows: 0.173 percent U_3O_8, 0.02 percent V_2O_5, 50 percent CaF_2, and less than 0.1 percent rare earth oxides.

MINABLE ORE RESERVES

It is estimated that 200 tons of ore containing 0.17 percent U_3O_8 and 30 to 40 percent CaF_2, with considerable silica, constitutes the inferred ore reserve on the Eagle Rock property. The above tonnage figure was estimated by assuming the ore body to be 100 feet long, the average width to be 1 foot, and the average depth to be 25 feet, and that 12.5 cubic feet of ore in place will weigh 1 ton.

PRESENT STATUS

An access road was been constructed up the steep side of the mountain to the Eagle Rock workings. Two shallow shafts, a trench about 50 feet long, several shallow pits, more than 12,500 square feet of bulldozer stripping, and 5 drill holes, ranging from 17 to 50 feet in depth, constitute the exploratory work completed to date.

Mine labor, materials, supplies and equipment may be obtained at Delta, Utah.

Water can be transported from Topaz well, which is about 4½ miles from the property.

The only source of power is gasoline or Diesel-driven equipment.

PROJECT PROPOSALS WITH COSTS

The applicant proposes to explore the downward extension of the vein and rock under the slumped areas for uranium and rare earth ores by drilling eight 200-foot core drilled holes (fig. 3) for a total of 1,600 feet.

The project is estimated to cost as follows:

1,600 feet of core drilling at $8.50 per foot (includes drilling, drill site preparation, water haulage, core boxes, etc.)	$13,600.00
Technical services, 3 months at $250 per month	750.00
Total estimated cost of project	$14,350.00
Government participation at 75 percent	$10,762.50

PROPOSED FINANCING

The applicant reports he is prepared to invest $3,587.50 in the proposed exploratory project, which is 25 percent of the estimated cost of $14,350, in accordance with the regulations on Government participation, as stated in Section 7, DMEA Order No. 1 Amended.

CONCLUSIONS AND RECOMMENDATIONS

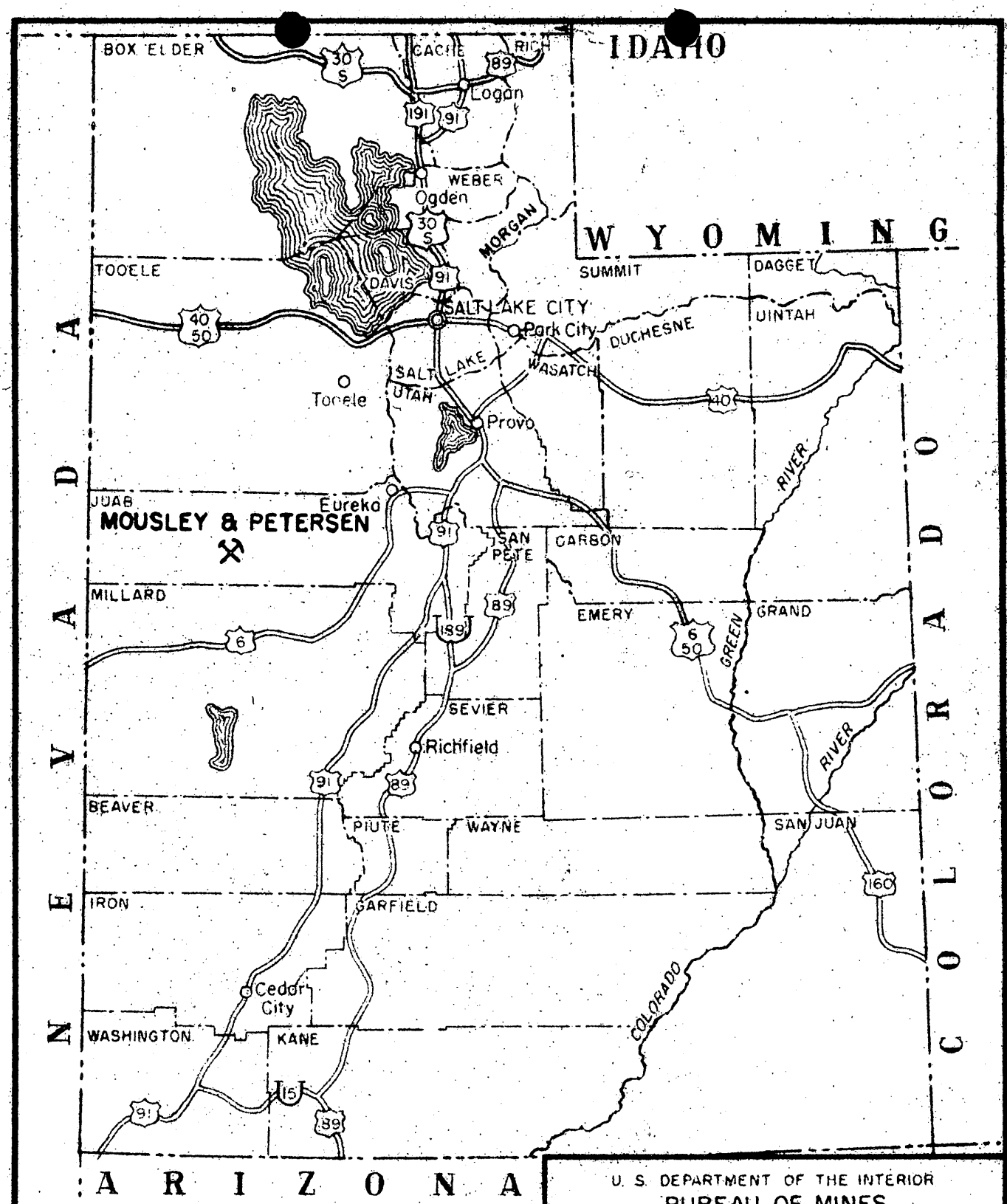
The possibility of encountering commercial ore bodies of uranium and rare earths on the Eagle Rock claims is not encouraging, because of the irregular occurrence of the exposed ore deposition and because of the remote possibilities of the apparent structural controls. All fluorite so far disclosed on the property contains a high percentage of silica, which is not desirable. There is no indication that rare earths will be found in greater amounts than minus 0.1 percent.

A communication, dated April 20, 1955, from Ernest E. Thurlow, Chief, Salt Lake Exploration Branch, Division of Raw Materials, Atomic Energy Commission, states that the Marysvale purchasing depot has been

instructed to refuse fluorite-type uranium ores because they are not amenable to present treatment processes. Therefore, even if uraniferous fluorite ores are discovered in commercial quantities there is no market for them at the present time.

Through 1953 the Topaz Mountain fluorspar area has produced more than 80,000 tons of metallurgical-grade fluorspar ores.

It is recommended that the application for Government aid to explore for uranium and rare earths on the Eagle Rock property be denied.



0 50 100
SCALE OF MILES

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3704
Location Map

MOUSLEY & PETERSEN
(EAGLE ROCK CLAIMS)
JUAB COUNTY, UTAH

ENGINEER M. H. HOWES	DATE JUNE 24, 1955
TRACED JUNE, 1955; A.P.T.S.	1900-338-E
CHECKED	

IN REPLY REFER TO:
DMEA

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

Date Rec'd,
JUN 27 1955
BUREAU OF MINES
Denver, Colorado

June 24, 1955

TRANSMITTED
JUL 18 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3704 (Uranium), Woodrow B. Mousley and Chris Peterson, partnership, Eagle Rock claims, Juab County, Utah

Enclosed are the original and nine copies of a geologic report by R. W. Osterstock, U. S. Geological Survey, covering his examination of the subject property.

Osterstock concludes that the probability of discovering significant deposits of uranium ore are remote, and he recommends denial of the request for Government aid in exploration of the claims.

I concur with this recommendation, particularly in view of the mineral composition of the vein material exposed in the open cuts and shafts.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

Routed to by
DMEA [illegible]
7-25-55

RECEIVED

JUN 1 8 1955

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
June 21, 1955

Memorandum

To: E. N. Harshman, DMEA Field Team, Region III

From: R. W. Osterstock

Subject: DMEA Docket 3704 (Uranium), Woodrow B. Moudley and Chris Peterson, partnership, Eagle Rock Claims, Juab County, Utah.

Enclosed are eleven copies of a geologic report on the subject property by R. W. Osterstock, U. S. Geological Survey.

The applicants have proposed an exploration program costing $14,350 which consists of 8 drill holes, each drilled to a depth of 200 feet.

The uranium mineralization on the Eagle Rock claims is intimately associated with fluorite beawerk occurring in a band about 1 foot wide on the south wall of the northeast trending vein. The country rock is northeast striking, northwest dipping, dolomitized Middle Paleozoic limestone. Abundant syngenetic chert is noted in the stratigraphic section. Rhyolite porphyry outcrops in a low range of hills about 1/4 mile east of the claim area and one small area of rhyolite float is noted on the Eagle Rock claim. It is suggested that a circular topographic depression just north of the vein zone may represent the weathered down top of a rhyolite plug. There is no convincing evidence of the existence of such a plug nor is there any radiometric evidence of uranium mineralization beneath the alluvium covered depression.

The vein zone itself does not exhibit sufficiently encouraging evidence to justify any great degree of either lateral or vertical persistence. It is concluded that the Eagle Rock claim area does not contain a sufficient quantity of uranium ores to materially add to the national reserve picture and therefore the project as proposed is not worthy of DMEA participation.

It is recommended that the applicant's request for DMEA assistance be denied.

cc: S. R. Wilson

Enclosures (3)
1. Report (original and 10 copies)
2. Illustrations
3. Brochure from Wash.

R. W. Osterstock

7-25-55

EAGLE ROCK CLAIMS
Juab County, Utah

DMEA Docket 3704
(Uranium)

Initial Geologic Report

By

R. W. Osterstock
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
9-25-55
(Date)

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1. Fig. 1 - Index Map of Western Utah.
2. " 2 - Claim map of Eagle Rock property, Juab County, Utah.
3. " 3 - Geologic map and section of the Eagle Rock property, Juab County, Utah.

REFERENCES

Staatz, M. H., et. al: Radioactive Fluorite in the Thomas Range, Juab County, Utah. Trace Elements Investigation Report 136, January, 1951.

Thurston, W. R., Staatz, M. H., Cox, D. C., and others: Fluorspar Deposits of Utah. U. S. Geological Survey Bull. 1005, 1954.

SUMMARY

Mousley and Peterson, a partnership, with lease and option agreements on the Eagle Rock Claims in Juab County, Utah, have applied for DMEA assistance for exploration for uraniferous ores. The Eagle Rock property lies in the central part of the Thomas Range on a low range of hills made up of Middle Paleozoic dolomitized limestone. The country rock, now predominantly dolomite, contains abundant black, tan and white chert. The regional strike of the beds is northeast with moderate northwesterly dips. Rhyolite porphyry is exposed in a low range of hills above the valley floor about a quarter of a mile east of the Eagle Rock claims. A small patch of rhyolite porphyry float was noted about 50 feet west of the discovery monument on the Eagle Rock claim. Topographic depressions in the claim area may indicate the existence of concealed, slopewash covered, rhyolite porphyry plugs.

Uraniferous mineralization on the Eagle Rock claims appears to be confined to a northeast trending vertical vein zone which has been exposed by open cuts and shafts over a strike distance of about 100 feet. The mineralized portion of the vein zone is generally less than one foot wide and is composed of black to purple boxwork fluorite which contains sporadic disseminations of carnotite as encrustations on the walls of some of the boxwork. The upward vertical extent of the vein structure appears to be cut off in the southwest face of the open cut by unbroken dolomite beds. There is no evidence to indicate that this vein structure is strong enough to have any great degree of either vertical or lateral persistence.

The property is reported to have produced seven tons of uraniferous fluorite which was shipped to Marysvale, Utah, AEC buying depot, although settlement sheets are not available, it is reported that this shipment assayed 0.17 percent U_3O_8. It is estimated that the property contains about 15 tons of fluorite ore

in sight on the south wall of the vein zone. No other reserve data can be computed. The ore in sight may contain up to 30 percent CaF_2 and from 0.10 to 0.20 U_3O_8. Major production from the Thomas Range fluorite district has come from both the irregular and circular pipe-like bodies in the rhyolite porphyry plugs. All of the mineralization noted on the Eagle Rock Claims is confined to the northeast trending vein structure. The evidence for the existence of a rhyolite porphyry plug beneath the slopewash covered depression just north of the vein zone is not sufficiently convincing to justify exploration at depth in this area. A scintillator traverse across the depression revealed no abnormal radiometric highs.

It is recommended that the applicants request for government assistance be denied.

INTRODUCTION

Woodrow Mousley and Chris Peterson, a partnership, applied, under DMEA Docket 3704, for government assistance for uranium exploration on the Eagle Rock Claims, Juab County, Utah. The application is dated December 10, 1954. The property was examined on April 12, 1955 by R. W. Osterstock, USGS. The examining geologist was accompanied in the field by Messrs. Al and Earl Willden of Delta, Utah, these gentlemen, as original owners of the claims, acted as representatives of the applicants.

The applicants propose to explore for uranium on their Eagle Rock claims by a diamond drilling program consisting of eight holes, each drilled to a depth of 200 feet.

The total cost of the exploration program as proposed by the applicants is $14,350.

Location and accessibility

The Eagle Rock Claims lie within the central portion of the Thomas Range in Juab County, Utah. The property is on the east side of a low range of hills about 300 feet high which are in the valley separating the western and eastern parts of the Thomas Range in the southeast part of T. 12 S., R. 12 W., SLB&M (unsurveyed). The property would lie within sec. 35 if the township and range were subdivided.

The Eagle Rock Claims may be reached by travelling west on paved U. S. 6 from the center of Delta, Utah .5 miles, thence take right fork on paved Utah 99 for 3.7 miles, from this crossroad go straight ahead (west) 4.0 miles, thence turn right (north) 1.5 miles, thence turn left (west) .6 of a mile to the end of the blacktopped portion of the road. Continue west on road 1.4 miles to crossroad, thence turn left 3.4

miles where road bears right (north). Continue for 14.1 miles and take right fork of road. Continue straight through crossroad 3.4 miles from righthand fork. Continue 4.2 miles, take left fork (at this point there is a roadsign pointing to Gallao, Utah), from road fork continue 6.4 miles, thence take right fork for 6.7 miles, thence turn right leaving improved dirt road for access road for 1.0 miles to the eastern edge of the Eagle Rock Claim area.

In general the road leading to the claim area is well cared for, however, the last mile after leaving the graded dirt road is subject to washouts during heavy rains.

History and production

The Eagle Rock Claims were originally staked by T. A. Claridge, Rex Claridge, Albert Willden, and Earl Willden, all of Delta, Utah. The Eagle Rock and Eagle No. 1 claims were staked on August 15, 1948, since that date the Eagle Rock No. 2 claim has been located by the same gentlemen. The Willden brothers bought out the other two partners and thus became sole owners of the property. Mousley and Peterson, the present loan applicants, have a lease and option agreement for the Eagle Rock properties which is now in effect. Mousley and Peterson informed the Willdens that approximately $9,000 had been spent on work at the property prior to the date of the present DMEA loan application. This work consisted of a road bull-dozed in from the Topaz-Fluorspar road up to the outcropping, the removal of 3,000 cubic yards of cover by bulldozing on the Eagle Rock No. 1 claim and 20,000 cubic yards of overburden removed from the Eagle Rock No. 2 claim. Some percussion drilling is also reported on the claims,

however, this phase was not deemed satisfactory as the swelling ground closed the holes almost immediately. To date the property has shipped seven tons of ore to the AEC buying station in Marysvale, Utah. The ore is reported to have assayed 0.17 percent U_3O_8. The figure corresponds with a channel sample cut by M. H. Staatz which also assayed 0.17 percent U_3O_8. The applicants report the property to have five tons of ore reserves, apparently of similar grade to the ore shipped to Marysvale.

The Thomas Range area has been of principle interest for its fluorite production which began in May 1943. By September 1950 more than 35,000 tons had been produced from the district. Several of the mines of the district are still in operation, however, recent production data are not readily available.

GEOLOGY

The Eagle Rock Claims lie in an area of undifferentiated Middle Paleozoic limestones and dolomites. Most of the dolomite is the result of secondary dolimitization rather than being a primary sedimentary feature. The dolomite near the southern end of the property is massive to heavy bedded, dark gray and coarsely crystalline. Higher in the section to the north the beds become thinner, being about 4 to 6 inches thick near the workings. As the beds thin, white, gray and black chert nodules begin to appear. These are apparently syngenetic as silicified fossils are occasionally found in the chert near the top of the section. Near the northern end of the claims chert comprises approximately 50 percent of the section. There is also considerable introduced silica in thin stringers and networks which are of diverse orientation. An appreciable increase of silicification is noted as the vein zone is approached until at the vein there is only extremely altered dolomite rock with abundant silica and some CaF_2.

The regional attitude of the dolomite beds is northeast-striking and moderate northwest dipping (see fig. 3).

On the valley floor about one quarter mile to the east of the Eagle Rock Claim, there is a low range of rhyolite porphyry hills. A small area of rhyolite porphyry float was noted about 50 feet southwest of the discovery monument on the Eagle Rock Claims. Staatz has indicated that these rhyolites are of Tertiary age.

The central part of the project area shows a circular depression, now partially stripped, (fig. 3) and similar smaller depressions are found elsewhere on the property. These depressions may have formed above ore-bearing rhyolite plugs and are characterized by (1) the absence of outcrops (2) brecciated dolomite in the outcrops adjacent to the depressions (3) networks of chert, as much as 60 percent in the dolomite adjacent to the depressions (4) the presence of pale leached chert float characterized by a boxwork structure and (5) the presence of calcite rich cream to reddish clay like material in the few small pits that prospect these areas. M. H. Staatz suggests that the general circular shape of these depressions rather than elongate shape suggests that they may be formed above intrusive plugs probably also of rhyolite porphyry.

ORE DEPOSITS

The ore deposits of the Thomas Range Mining District are probably epithermal fluorspar deposits. They are generally pipe-like bodies or veins that occur in dolomite or in rhyolite porphyry, generally the deposits are vertical or steeply dipping.

On the Eagle Rock property a fluorite bearing vein is exposed in open cuts and two shafts, the ore bearing portion of the vein averages 1 foot wide though in places it pinches down to about 6 inches. The vein

zone proper is highly brecciated and locally attains a width of about 5 feet. The vein may be traced on strike length over a distance of about 100 feet in bull-dozer cuts, shafts and open cuts. On the south wall of the vein zone a fairly persistent zone of purple to black fluorite boxwork appears to represent the highest grade section of the mineralized area. The north wall of the vein zone is reddish highly altered dolomite with some fluorite and some very fine sandy material. At the face at the southwest end of the open cut, beyond the westernmost of the two shafts, there is a stratified graded clay and sand-sized zone of material which contains sporadic 6 inch to 1 foot globs of fluorite ore. It seems likely that these CaF_2 blocks in the clay zone may indicate post-ore movement. Fluorite appears to remain as boxwork along with much silica. The original composition of the rock prior to the development of the boxwork structures origin remains unknown. Staatz has pointed out that the ore is unusually rich in silica and as a result it is hard and resistent in contrast to the more normal pulverulent ore of the district. The high silica content prevents this deposit from being worked only for its fluorite content. The purple to black fluorite on the south wall of the vein zone contains visible though extremely small yellow globular carnotite coatings. The uranium minerals do not appear to be continuous or uniformly distributed but instead occur as sporadic disseminations associated with the boxwork fluorite. It is noted that at the face of the open cut relatively fresh dolomite beds cross over the top of the vein zone. There is no indication of vertical persistence of the vein zone above the level of the open cut. The most noteworthy features of the property are the extreme alteration of the dolomites adjacent to the vein zone, the attendant clay-like white to tan pulverulent material,

intense silicification at the ore zone and the great degree of brecciation which increases as the ore zone is approached.

Although the structural geology is incompletely known there is a suggestion of a northwest trending and plunging anticlinal structure with the Eagle Rock claims approximately on the axis.

ORE RESERVES

The applicant has estimated that the property contains five tons of ore reserves and although no statement is made to that effect it is presumed that the applicant infers a grade of 0.17 percent U_3O_8 for these reserves. The examining geologist does not find it feasible to estimate ore reserves on any part of the Eagle Rock claim area, however, there remains in sight, particularly on the south wall of the open cut above the two shaft stations, 10 to 15 tons of black fluorite boxwork ore which would probably assay less than 30 percent CaF_2 and .10 to .20 percent U_3O_8.

PROPOSED EXPLORATION

The applicants have proposed an exploration program consisting of eight drill holes of 200 feet each. These holes are spotted on the map accompanying the application provided by the applicants (see fig. ~~3~~ 2 end). Holes No. 1, 2 and 3 as proposed by the applicants are apparently designed to explore the known vein zone at depth. Holes 4, 5 and 6 if inclined will explore the known vein zone at depth and will also explore the possibilities of mineralization beneath the depression. It is suggested that this depression may have resulted from the weathering down of intrusive rhyolite plug. Holes 7 and 8, well to the north of the known vein zone, are apparently designed to explore for other parallel vein zones, or other intrusive rhyolite plugs, which may be mineralized. The applicants

have estimated that the total cost of the drilling project will be $13,600. An additional cost of $750 is to be used for obtaining consulting assistance. The total overall cost of the project is estimated to be $14,350.

The vertical or lateral persistence of the fluorite zone is at present unknown. There does not appear to be vertical persistence above the level of the open pit, and its persistence with depth must, therefore, remain in doubt. There does not appear to be sufficient vertical persistence of the known ore zone to warrant exploration at depth by diamond drilling. Staatz has suggested that since most of the fluorspar production from the Thomas Range area has come from the circular or pipe-like bodies in the intrusive breccias, this type body is therefore the most favorable for prospecting. Diamond drilling of the area beneath the depression north of the vein zone, which may represent the weathering down of an intrusive rhyolite plug, may only be classified as prospecting. There is no convincing evidence pointing out the existence of such a plug nor is there any evidence to indicate that the plug may be mineralized. A scintillator traverse made across the depression did not reveal any abnormally high radiometric anomalies which would suggest the existence of the uraniferous zone beneath the slope wash.

CONCLUSIONS AND RECOMMENDATIONS

The uraniferous fluorite deposits in the Eagle Rock Claim area appear to be confined to the single vein zone exposed in the open pit and the two shallow shafts. The vein appears to have formed along a nearly vertical fault trending northeast-southwest. Most of the fluorite mineralization is confined to the south wall of the structure and is generally less than one foot thick. The dark purple fluorite is in a boxwork structure throughout which

there are sporadic fine disseminations of carnotite encrustations on some of the walls of the boxwork fluorite. The country rock in the Eagle Rock claim area is dolomitized Middle Paleozoic limestone. The beds strike northeast, dip moderately to the northwest, and contain abundant syngenetic chert. Considerable silicification is noted as the vein zone is approached. Alteration and brecciation of the dolomite also increase as the vein zone is approached. At the south end of the open pit all of the vein zone appears to stop abruptly as dolomite beds go across the top without interruption. The vein zone is now exposed over a strike distance of about 100 feet. M. H. Staatz has suggested that a topographic depression just north of the vein zone may represent the weathered, concealed top of an intrusive rhyolite plug.

It is concluded that the fracture type vein deposit as is presently exposed on the Eagle Rock property probably will not have great lateral persistence. The degree of vertical persistence appears to be somewhat limited at least at the top of the vein zone as indicated in the face of the southwest crosscut where the vein zone is stopped by overlying unbroken dolomite beds. There is, therefore, no well defined target for diamond drill exploration along the vein zone. Diamond drilling into the area of the postulated intrusive rhyolite plugs would come under the heading of prospecting and is not therefore subject to DMEA assistance.

The ore reserve potential of this deposit does not appear to be sufficient in either tonnage or grade to substantially add to the national reserve picture. It is recommended that the applicants' request for a DMEA loan be denied.

This docket and the proposed exploration program on the Eagle Rock Claims have been discussed with members of the Atomic Energy Commission, Salt Lake Exploration Branch. As a result of these discussions, Mr. E. Thurlow, Chief, Salt Lake Exploration Branch of AEC, has in a letter to M. M. Howes (USBM) dated April 20, 1955 stated that Marysvale purchasing depot of AEC has been instructed to refuse ores of the uraniferous fluorite type as they are not amenable to present treatment processes. Mr. E. A. Youngberg, Director of the Mining Division, has suggested that DMEA discourage exploration for uranium ores of the fluorite type. It was, however, noted that if a district appeared to have sufficient potential that it might eventually support a fluorite treatment plant with uranium as a by-product. An exploration venture might be justified as a joint uranium-fluorite project on such a property.

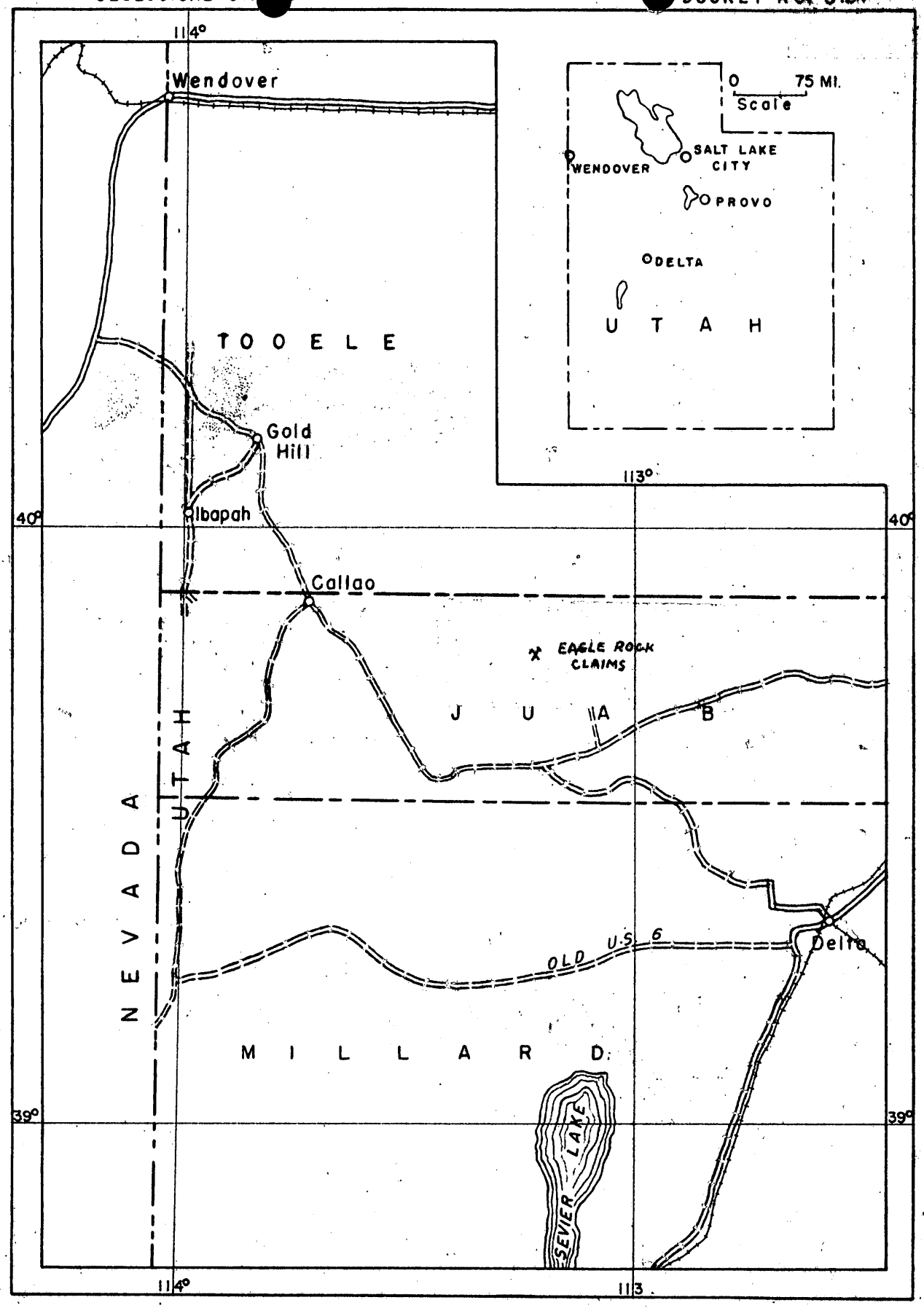
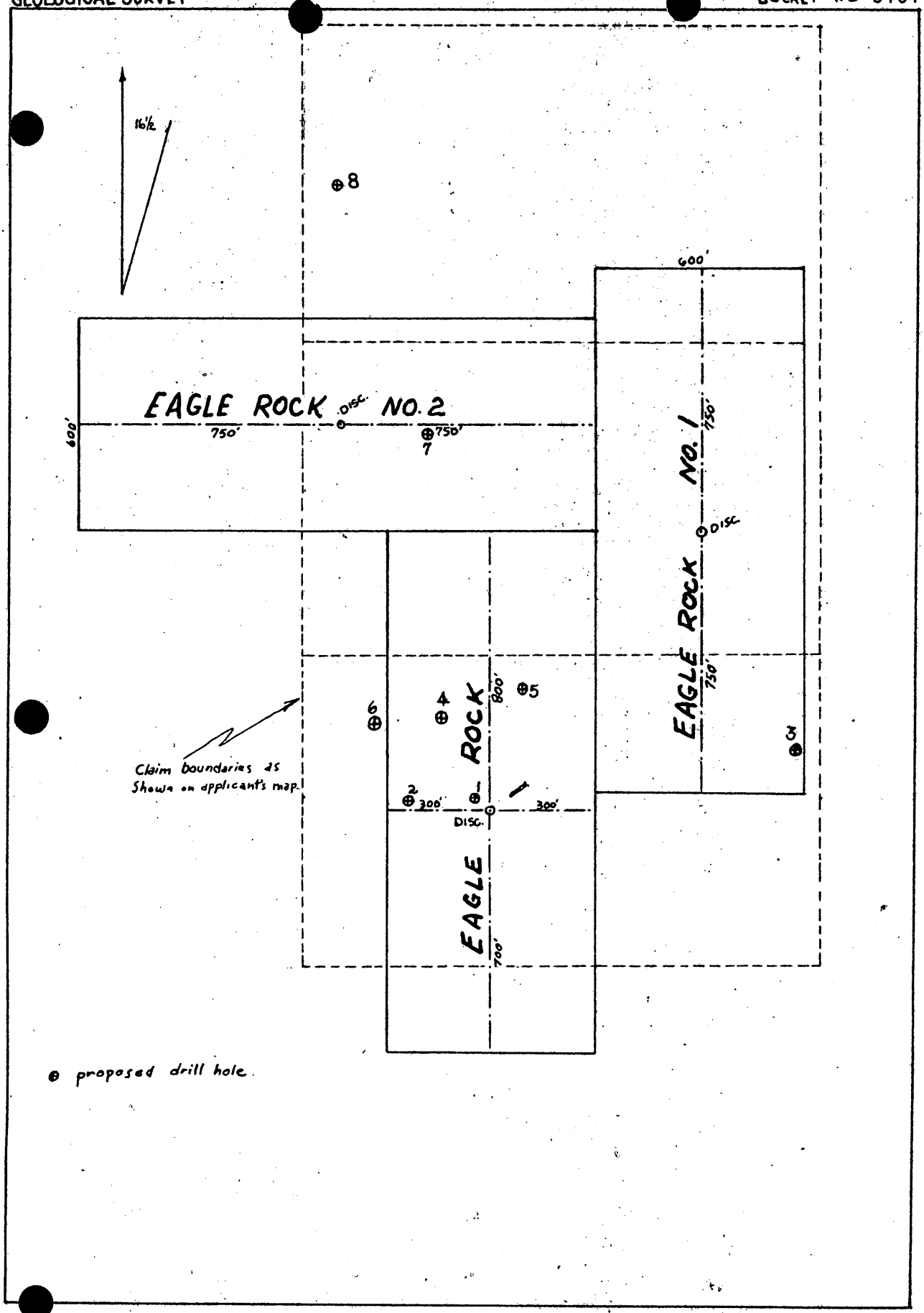


FIG. I INDEX MAP OF WESTERN UTAH

0 5 10 15 20 MILES
Scale



CLAIM MAP OF EAGLE ROCK PROPERTY, JUAB COUNTY, UTAH

FIG. 2

0 100 200 400 800 1200 ft.

Surname 700

Ellis
Mattendorf

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

Air Mail

MAY 18 1955

Mr. Woodrow V. Mousley
12412 Port Road
Los Angeles 66, California

Re: Docket No. DMEA-3704
(Uranium and rare earths)
Woodrow V. Mousley and Chris Petersen
Eagle Rock claims
Juab County, Utah

Dear Mr. Mousley:

This will acknowledge receipt of a copy of your letter dated May 14, 1955, addressed to Mr. W. M. Traver, DMEA Field Team, Region III, Denver, Colorado, which has been referred to this office for reply.

In accordance with your request, we are forwarding herewith the Option and Purchase Agreement entered into on January 15, 1955, between Earl B. Willden and Una T. Willden, his wife, and George Albert Willden and Melba M. Willden, his wife, of Delta, Utah, and W. Mousley of Venice, California, and Chris Petersen of Los Angeles, which you submitted with the above-docketed application.

With reference to the second paragraph of your letter to Mr. Traver concerning the return of this agreement for our files, it is suggested that you retain the original copy of the agreement and furnish us with a photostatic copy which we may keep with our records.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

Enclosure

EWEllis:am
5-18-55
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
DMEA Field Team, Region III(2)

R.C.G.

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

Defense Minerals Administration
RECEIVED
MAY 17 1955

224 New Customhouse
Denver 2, Colorado

May 16, 1955

AIR MAIL
SPECIAL DELIVERY

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3704 (Uranium & Rare Earths), Eagle Rock claims, Juab County, Utah

Enclosed is a copy of a letter from the Applicant requesting a copy of an agreement which he claims was made a part of his application. The copy of the application received in this office did not contain this agreement.

Will you please send your copy of the agreement to the Applicant and ask him to return it to you, which he agreed to do in the attached letter.

You will note the Applicant has need of this agreement on May 25, 1955.

W. M. Traver

W. M. Traver

Enclosure

DMEA
Date Rec'd
MAY 16 1955
BUREAU OF MINES
Denver, Colorado

May 14, 1955
12412 Port Road
Los Angeles 66, Calif.

Mr. W. M. Traver
DMEA Field Team, Region III
224 New Customhouse
Denver, Colorado.

Re: Docket No. DMEA-3704,
Eagle Rock Claims, Juab
County, Utah

Dear Mr. Traver:

It is necessary for me to present a copy of our agreement between the Wilden brothers and ourselves on the Eagle Rock claims to the Labor Commission in Los Angeles on May 25th.

Mr. Wilson suggested I request the copy from your office as he does not have one. I will return the agreement special delivery on May 26th.

Someone is claiming we owe wages for the month of Sept. and our Option Purchase Agreement didn't even take effect until October 1st. By presenting this agreement to the Commissioner we will be cleared of the claim.

I would appreciate your immediate attention to this matter.

A self-addressed, stamped envelope is enclosed.

Sincerely,

Woodrow Mousley

Enc.

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

Department of the Interior
Defense Minerals Administration
RECEIVED
MAY 17 1955

224 New Customhouse
Denver 2, Colorado

May 16, 1955

Mr. Woodrow Mousley
12412 Port Road
Los Angeles 66, California

Re: Docket DMEA-3704
Eagle Rock Claims
Juab County, Utah

Dear Mr. Mousley:

This will acknowledge receipt of your letter of May 14, 1955 requesting a copy of the agreement between you and the Wilden brothers on the Eagle Rock claims.

We did not receive a copy of this agreement with our copy of the application, so we are requesting by air mail special delivery to our Washington office, DMEA, that they forward you a copy of the agreement.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

HMC:sr

cc Subject
Chron
Chairman Op. Comm. (2)
Wilson

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

Defense Min
MAY 23 1955

224 New Customhouse
Denver 2, Colorado

May 16, 1955

AIR MAIL
SPECIAL DELIVERY

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Enclosure

DMEA
Date Rec'd
MAY 16 1955
BUREAU OF MINES
Denver, Colorado

May 14, 1955
12412 Port Road
Los Angeles 66, Calif.

Mr. W. M. Traver
DMEA Field Team, Region III
224 New Customhouse
Denver, Colorado.

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Eagle Rock Claims, Juab
County, Utah

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DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

224 New Customhouse
Denver 2, Colorado

May 16, 1955

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Los Angeles 66, California

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Eagle Rock Claims
Juab County, Utah

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Very truly yours,

W. M. TRAVER,
W. M. Traver
Executive Officer, DMEA
Field Team, Region III

HMC:sr

cc Subject
Chron
Chairman Op. Comm. (2)
Wilson

Surname 700

Murphy
Ellis
Hook
Martin
[illegible]

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

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

MAY - 4 1955

Re: Docket No. DMEA-3704 (Uranium and rare earths)
Woodrow V. Mousley and Chris Petersen
Eagle Rock claims
Juab County, Utah

Dear Mr. Traver:

This is in response to your memorandum, dated April 26, with the attached copies of a letter, dated April 20, from Mr. E. E. Thurlow and a memorandum, dated April 22, 1955, from Mr. S. R. Wilson, all in regard to aspects of the captioned application.

Mr. Thurlow states that at present the Atomic Energy Commission will not accept uranium ores of the fluorite type which apparently occur on the subject claims. However, he suggests the possibility that if a district appears to have sufficient potentiality, it might eventually support a fluorite treatment plant with uranium as a by-product.

Although we are primarily interested in individual mines, data available here indicate that only a small amount of metallurgical grade fluorspar has been shipped from the district in which the Eagle Rock claims are located. However, you may have more recent data on the potentiality of the area as a source of fluorspar and/or uranium ores.

In order that we may determine the policy to be used in regard to the subject application, we suggest that you forward the Field Team's report and recommendations to this office for our review and decision.

Sincerely yours,

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

APPROVED:

M. E. Volin (DLB)
Member, Bureau of Mines

/s/ R. D. Grace (DLB)
Member, Geological Survey

FMMurphy:am
5-3-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy

R.C.G.

4/29/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1955

224 New Customhouse
Denver 2, Colorado

April 26, 1955

Memorandum

To: Chairman of the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: DMEA-3704 (Uranium), Woodrow B. Monsley and Chris Peterson, Partnership, Eagle Rock claims, Juab County, Utah

Enclosed are the original and three copies of a memorandum from S. R. Wilson concerning the loan application on the subject docket. The memorandum transmits a letter from Ernest E. Thurlow of the AEC dated April 20, 1955 to Mike Howes, USBM, which is self-explanatory.

The Region III Field Team believes the matter is one of policy that should be decided at the Washington level and is accordingly transmitting it to you for that purpose.

May we have your decision at an early date in order to expedite preparation of the field reports for submission.

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1955

224 New Customhouse
Denver 2, Colorado

April 26, 1955

Memorandum

To: Chairman of the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: DMEA-3704 (Uranium), Woodrow B. Monsley and Chris Peterson, Partnership, Eagle Rock claims, Juab County, Utah

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E. N. Harshman

E. N. Harshman

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DMEA
Date Rec'd.
APR 25 1955

BUREAU OF MINES
Denver, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1955

April 22, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3704 (Uranium), Woodrow B. Mousley and Chris Peterson Partnership, Eagle Rock claims, Juab County, Utah

The subject property has been examined for DMEA loan appraisal by M. H. Howes of this office and R. W. Osterstock of the Survey. The property appears to have some merit for low-grade uranium ore deposits. However, because of the intimate association of fluorite with autunite or carnotite, economic recovery of the uranium is difficult.

We have discussed the property and the mineral association with members of the Atomic Energy Commission, Salt Lake City, Utah. We have been advised that the Atomic Energy Commission purchasing depot at Marysvale, Utah, is now refusing to accept ores of this type. The original and nine copies of a letter signed by Ernest E. Thurlow outlines the present policy in respect to purchase of uranium-fluorite ores.

There are several fluorspar properties in the area of the Eagle Rock claims. Many of them contain small quantities of uranium, but insofar as is known, no attempts have been made to process the ores for both uranium and fluorite. It is believed that no mills to process the ores in the district have been planned, inasmuch as the fluorite ores are sufficiently high grade to ship as metallurgical grade without further processing.

Please advise if you believe the loan request should be denied in view of the present policy of the Atomic Energy Commission relative to uranium-fluorite ores.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF RAW MATERIALS
Salt Lake Exploration Branch

ADDRESS REPLY TO:

U. S. Atomic Energy Commission
P. O. Box 2196
Salt Lake City, Utah

AND REFER TO:

SLEB:DLD:af

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1955

April 20, 1955

Mr. Mike Howes
U. S. Bureau of Mines
1600 East First South
Salt Lake City, Utah

Dear Mr. Howes:

This letter confirms a recent telephone conversation regarding the policy of the mining and processing division of the Grand Junction Operations Office of the U. S. Atomic Energy Commission with respect to fluorite-type ores.

Mr. E. A. Youngberg, Director, Mining Division, advises us that instructions have been given to the Marysvale purchasing depot to refuse these ores on the basis that they are not amenable to present treatment processes.

In view of this policy, he suggests that we discourage DMEA exploration for uranium ores of the fluorite type. However, if a district appears to have sufficient potential that it might eventually support a fluorite treatment plant with uranium as a by-product, such exploration may be justified as a joint fluorite-uranium project.

Very truly yours,

Ernest E. Thurlow

Ernest E. Thurlow, Chief
Salt Lake Exploration Branch
Division of Raw Materials

cc: E. A. Youngberg, GJ
R. W. Osterstock, GS, DMEA, SLC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DMEA
Date Rec'd.
APR 25 1955
BUREAU OF MINES
Denver, Colorado

April 22, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
APR 29 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: Stephen R. Wilson

Subject: Docket No. DMEA-3704 (Uranium), Woodrow B. Mousley and Chris Peterson Partnership, Eagle Rock claims, Juab County, Utah

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s/ Ernest E. Thurlow

Ernest E. Thurlow, Chief
Salt Lake Exploration Branch
Division of Raw Materials

cc: E. A. Youngberg, GJ
R. W. Osterstock, GS, DMEA, SLC

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DMEA
Date Rec'd.
APR 25 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 29 1955

BUREAU OF MINES
Denver, Colorado

April 22, 1955

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Division of Raw Materials
Salt Lake Exploration Branch

DEPARTMENT OF THE INTERIOR
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RECEIVED

April 20, 1955

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Ernest E. Thurlow, Chief
Salt Lake Exploration Branch
Division of Raw Materials

cc: R. A. Youngberg, GJ
R. W. Osterstock, GS, DMEA, SLC

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

DMEA
Date Rec'd.
APR 25 1955
BUREAU OF MINES
Denver, Colorado

April 22, 1955

Memorandum

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ATOMIC ENERGY COMMISSION
Division of Raw Materials
Salt Lake Exploration Branch

Bureau of the Interior
Solid Minerals Administration

April 20, 1955

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Ernest E. Thurlow, Chief
Salt Lake Exploration Branch
Division of Raw Materials

cc: E. A. Youngberg, GJ
R. W. Osterstock, GS, DMEA, SLC

COPY

Surname 700

Ellis
Kulsgaard
Hedges
Selfridge
Johnson

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

MAR 1 8 1955

Messrs. Woodrow V. Mousley
and Chris Petersen
12412 Port Road
Los Angeles 66, California

Re: Docket No. DMEA-3704 (Uranium and Rare Earths)
Eagle Rock claims
Juab County, Utah

Gentlemen:

The application for assistance in exploring your property in Juab County, Utah, 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 III at the following address:

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

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

Sincerely yours,

C. O. Mittendorf
(by EST)
Administrator

EWEllis:am
3-17-55
cc to: Admr. Reading File
Docket
Code 700
DMEA Field Team, Region III(2)

700

Ellis
Selfridge
Johnson

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

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

MAR 1 8 1955

Re: Docket No. DMEA-3704 (Uranium and Rare Earths)
Woodrow V. Mousley and
Chris Petersen
Eagle Rock claims
Juab County, Utah

Dear Mr. Traver:

The subject application is referred to Region III 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 March 7, and John B. Crawford, dated March 14, 1955, members of the Uranium Commodity Committee.

If a project is recommended, it is suggested that the Field Team make sure that the Option and Purchase Agreement is in force. Furthermore, the Applicant should be advised that we will require properly signed copies of the Owner's Consent to Lien forms in the event a contract is recommended.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JB)

Enclosures

APPROVED:

J. H. Hedges (JB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JB)
Member, Geological Survey

EWEllis:am
3-17-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700

R.C.S.

3/15/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 15 1955

March 14, 1955

Memorandum

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

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3704, Woodrow V. Mousley and
Chris Petersen, Eagle Rock Claims,
Millard County, Utah

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

We recommend that the attached 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 (2)

3/8/55 glm

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 8 - 1955

March 7, 1955

Re: DMEA-3704
Mousley & Petersen
Eagle Rock claims
Thomas Range area
Juab County, Utah
$14,350 - Uranium

Memorandum

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

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

Subject: Review of application

The Eagle Rock property is described in U.S.G.S. Bull. 1005, Fluorspar deposits of Utah, and in U.S.G.S. TEM-534.

The uranium-bearing fluorite "vein" is exposed in a trench and a pit for a minimum length of 40 feet. The country rock is dolomite.

In 1952, 40 tons of uranium-bearing fluorite reserves was inferred, containing about 0.17 percent U_3O_8.

Work in the Thomas Range area was done by the Survey in 1954 also, but the results are not available here.

I recommend the application be referred to the Field Team.

RD Trace

R. D. Trace

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals
MAR 8 - 1955

March 7, 1955

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Mousley & Petersen
Eagle Rock claims
Thomas Range area
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$14,350 - Uranium

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R. D. Trace

RDTrace:hlm
G-3/7/55

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

March 2, 1955
Subject: DMEA 3704
Re: Exploration Assistance
Eagle Rock

Messrs. Woodrow V. Mousley
and Chris Petersen
12412 Port Road
Los Angeles 66, California

Gentlemen:

The receipt of your application dated December 10, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3704 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

March 2, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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 III.

DMEA - 3704 Woodrow V. Housley and Chris Petersen

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

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

224 New Customhouse
Denver 2, Colorado

February 24, 1955

Memorandum

To: Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: (Uranium and Rare Earths), Application of Woodrow Mousley, Eagle Rock claims, Juab County, Utah

Enclosed are three copies of the application for DMEA assistance on the Eagle Rock claims in the amount of $14,350.00.

The application states that "maps" accompany the application, but only one map was received by this office of which we made copies to accompany each Form MF-103.

Also enclosed is a settlement sheet and a signed copy of the option agreement both of which the applicant has requested to be returned to him.

A fourth copy of the application is being retained in this office.

W. M. Traver

Enclosures

W. M. Traver

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

224 New Customhouse
Denver 2, Colorado

February 24, 1955

Memorandum

To: Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: (Uranium and Rare Earths), Application of Woodrow Mousley, Eagle Rock claims, Juab County, Utah

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W. M. TRAVER,

W. M. Traver

Enclosures

DMEA
Date Rec'd.

FEB 21 1955

February 14, 1955
[illegible]412 Port Road
Los Angeles 66, Calif.

Dear Mr. Traver:

Enclosed is our loan application. I trust that everything is in order but if it is not and the loan can be expedited by a telephone call, don't hesitate to call me collect -- Texas 0-1929 or Exbrook 3-7445.

When the field team is ready for an examination of the property, either Al or Earl Wilden, who reside at Delta, Utah will be on hand to show the property.

Hoping everything is in order, I remain,

Sincerely,

Woodrow Mousley

Mining Division
Date Rec'd.
DEC 15 1954
BUREAU OF MINES
Denver, Colorado

DMEA
Date Rec'd.
FEB 21 1955
BUREAU OF MINES
Denver, Colorado

(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
FEB 28 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. 3704
Metal or Mineral Uranium + Rare Earths
Date Received 2-28-55
Estimated Cost $14,350
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: Woodrow V. Mousley, 12412 Port Road, Los Angeles 66, Calif.
Chris Petersen 7723 S. Harvard Blvd., Los Angeles 44, Calif.
(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 The Eagle Rock and the Eagle Rock No. 1 and the Eagle Rock No. 2 Juab County, Utah.

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

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

(*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 ---

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

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will to explore Uranium & rare earths

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

(*c*) The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Dec. 10, 1954

Woodrow Mousley
(Applicant)

By Chris Petersen

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

1. (a) See instructions
   (b) See instructions
   (c) None
   (d) See instructions

RECEIVED

2. -----

3. (a) Eagle Rock, Eagle Rock No. 1, and Eagle Rock No. 2.
   Recorders No. 77863, Book 137, Page 534; Millard County, Utah
   (b) Eagle Rock
   (c) Purchaser under contract
   (d) Purchase Contract enclosed
   (e) Purchaser under contract
   (f) Recorders No. 77863, Book No. 137, Page 534.

4. A road was bulldozed in from the Topaz Fluorspar road up to the outcropping. 3000 cubic yards were bulldozed off from the Eagle Rock No.1 and 20,000 cubic yards of overburden were moved on Eagle Rock No. 3.

Twenty days of percussion drilling which we conducted during the month of October showed good results, however, because the clay which overlies the ore body swelled when mixed with water the drilling had to be suspended.

The radiometric results of the drilling as taken by Model DG-9 Detectron probe counter are shown below:

RADIOMETRIC READINGS

Hole	Depth	1 Sec. Time	5 Sec. Time
No. 1 - 50' deep	1' - 12'	.05 - .1½	.1
	12' - 27'	.1 - .2½	.2
	27' - 40'	.2 - .4½	.35
	40' - 50'	.2 - .7	.5
No. 2 - 32' deep	1' - 30'	.05 - 2½	.1
Cap rock	30' - 32'	.2 - .4	.37
No. 3 - 30' deep	1' - 7'	.2 - .4	.36
Over burden	7' - 20'	.2 - .6	.53
30' clay gouge	20' - 30'	.2 - .7	.61
Churn drill could not penetrate			
No. 4 - 17' deep	1' - 7'	.2 - .4	.36
Over burden	7' - 17'	.2 - .6	.93
17' clay gouge			
No. 5 - 22' deep	1' - 7'	.2 - .4	.35
Over burden	7' - 15'	.2 - .6	.57
22' clay gouge	15' - 22'	.2 - .7½	.7

Churn drilling was intended to block out the ore body. November 4, 1954 a compressor and air power tools were brought in to blast an open cut directly on the vein where two ~~forty~~ TWENTY foot shafts have been sunk into vein. To date, November 24, 1954 the ramps and open cut have been completed to the shafts. We are now engaged in driving an incline shaft on the vein to ascertain its length.

A good dry weather graded county road from Delta to the base of the mountain where the Eagle Rock claims are located can be negotiated by standard truck or passenger car.

4. (b) Seven tons of ore were shipped to Marysvale. The U_3O_8 content was .17%. Ore reserves consist of 5 tons.

(c) The geological indications are that this ore body is a primary intrusion along a secondary fault. The exposed surface strata that has intruded is rhyolite. The ore vein is a primary igneous intrusion succeeded by hydro thermal action. The vein consists of mineralized black fluorite with commercial quantities of Uranium ores and rare earths.

The desirability of continued exploration of this property are prompted first by commercial ore showings and second, peculiarities indigenous to the Belgian Congo and Marysvale primary uranium ore deposits are developing.

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(e) Manpower, materials, supplies, and equipment are readily available at Delta, Utah. A good supply of water is available and transportable from Topaz well, a distance of 4½ miles from the property. The only source of power would be by portable generators.

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(b) See enclosed maps.

(c) See instruction sheet.

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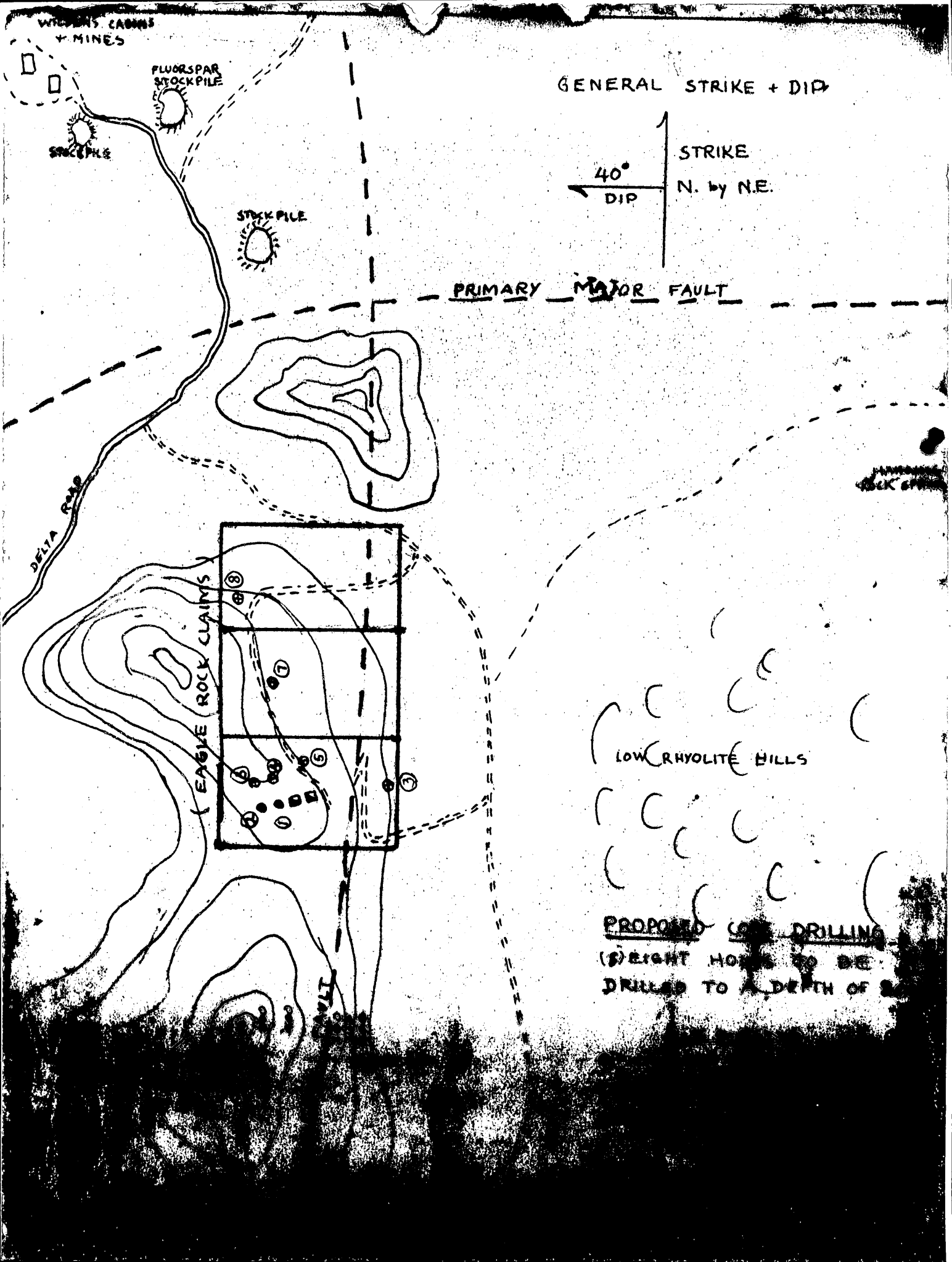
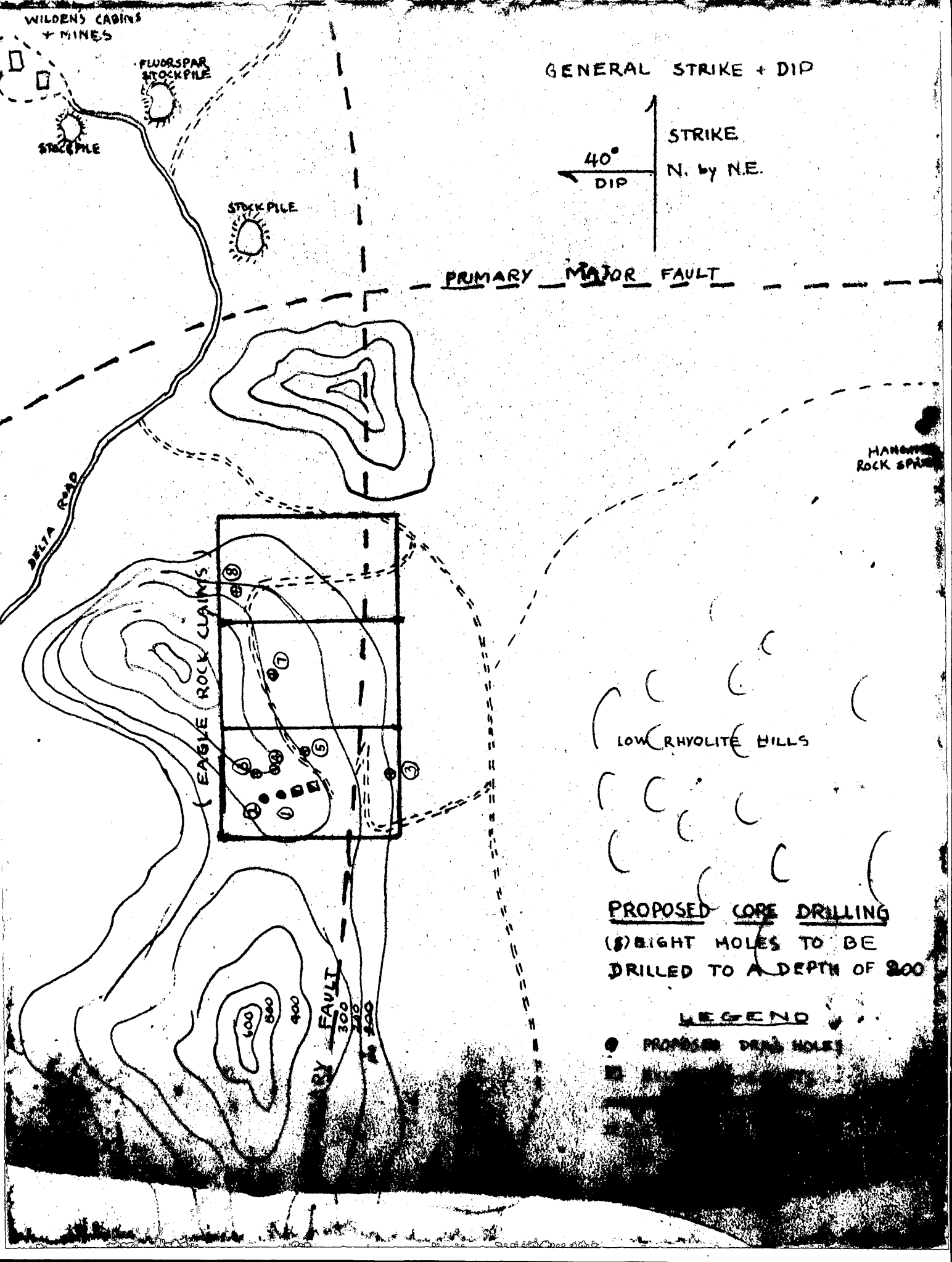
6. (a thru h incl.) Proposed 1600 feet drilling is all noted on attached maps. The drilling work will be contracted out at an estimated cost of $8.50 per foot of drilling. Consultant work is estimated at $250.00 per month for three months at a total of $750.00.

1600	feet of drilling
$8.50	per foot
80000	
12800	
$13,600.00	Total cost of drilling

$250.00	per month for consultant
3	number of months
$750.00	Total cost of consultant

$13,600.00	total cost for drilling
750.00	total cost for consultant
$14,350.00	Total cost for exploration work


WILLIAMS CABINS + MINES
FLUORSPAR STOCKPILE
STOCKPILE
STOCK PILE
GENERAL STRIKE + DIP
STRIKE
N. by N.E.
40°
DIP
PRIMARY MAJOR FAULT
DELTA ROAD
EAGLE ROCK CLAIMS
LOW RHYOLITE HILLS
PROPOSED CORE DRILLING
(8) EIGHT HOLES TO BE
DRILLED TO A DEPTH OF


WILDEN'S CABINS + MINES
FLUORSPAR STOCKPILE
STOCKPILE
STOCKPILE
GENERAL STRIKE + DIP
STRIKE
40°
DIP
N. by N.E.
PRIMARY MAJOR FAULT
DELTA ROAD
EAGLE ROCK CLAIMS
LOW RHYOLITE HILLS
PROPOSED CORE DRILLING
(8) EIGHT HOLES TO BE DRILLED TO A DEPTH OF 200
LEGEND
PROPOSED DRILL HOLES
FAULT
300
400
500
600

DMEA
Date Rec'd
FEB 21 1955

February 14, 1955
[illegible] Port Road
Los Angeles 66, Calif.

Dear Mr. Traver:

Enclosed is our loan application. I trust that everything is in order but if it is not and the loan can be expedited by a telephone call, don't hesitate to call me collect -- Texas 0-1929 or Exbrook 8-7445.

When the field team is ready for an examination of the property, either Al or Earl Wilden, who reside at Delta, Utah will be on hand to show the property.

Hoping everything is in order, I remain,

Sincerely,

Woodrow Mousley

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA
Date Rec'd
FEB 21 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. 3704
Metal or Mineral Uranium
Date Received 2-28-55
Estimated Cost $14,350
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: Woodrow V. Moubley, 12412 Fort Road, Los Angeles 66, Calif.
Chris Peterson 7723 S. Harvard Blvd., Los Angeles 44, Calif.
(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 The Eagle Rock and the Eagle Rock No. 1 and the Eagle Rock No. 2

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

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

(*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

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

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium & rare earths

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

(*c*) The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☒ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Dec. 10, 1954

Woodrow Mousley
(Applicant)

By Chris Petersen

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

1. (a) See instructions
   (b) See instructions
   (c) None
   (d) See instructions

2. ———

3. (a) Eagle Rock, Eagle Rock No. 1, and Eagle Rock No. 2.
   Recorders No. 77863, Book 137, Page 534; Millard County, Utah
   (b) Eagle Rock
   (c) Purchaser under contract
   (d) Purchase Contract enclosed
   (e) Purchaser under contract
   (f) Recorders No. 77863, Book No. 137, Page 534.

4. A road was bulldozed in from the Topaz Fluorspar road up to the outcropping. 3000 cubic yards were bulldozed off from the Eagle Rock No.1 and 20,000 cubic yards of overburden were moved on Eagle Rock No. 3.

Twenty days of percussion drilling which we conducted during the month of October showed good results, however, because the clay which overlies the ore body swelled when mixed with water the drilling had to be suspended.

The radiometric results of the drilling as taken by Model DG-9 Detectron probe counter are shown below:

RADIOMETRIC READINGS

Hole	Depth	1 Sec. Time	5 Sec. Time
No. 1 - 50' deep	1' - 12'	.05 - .1½	.1
	12' - 27'	.1 - .2½	.2
	27' - 40'	.2 - .4½	.35
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$13,600.00 Total cost of drilling

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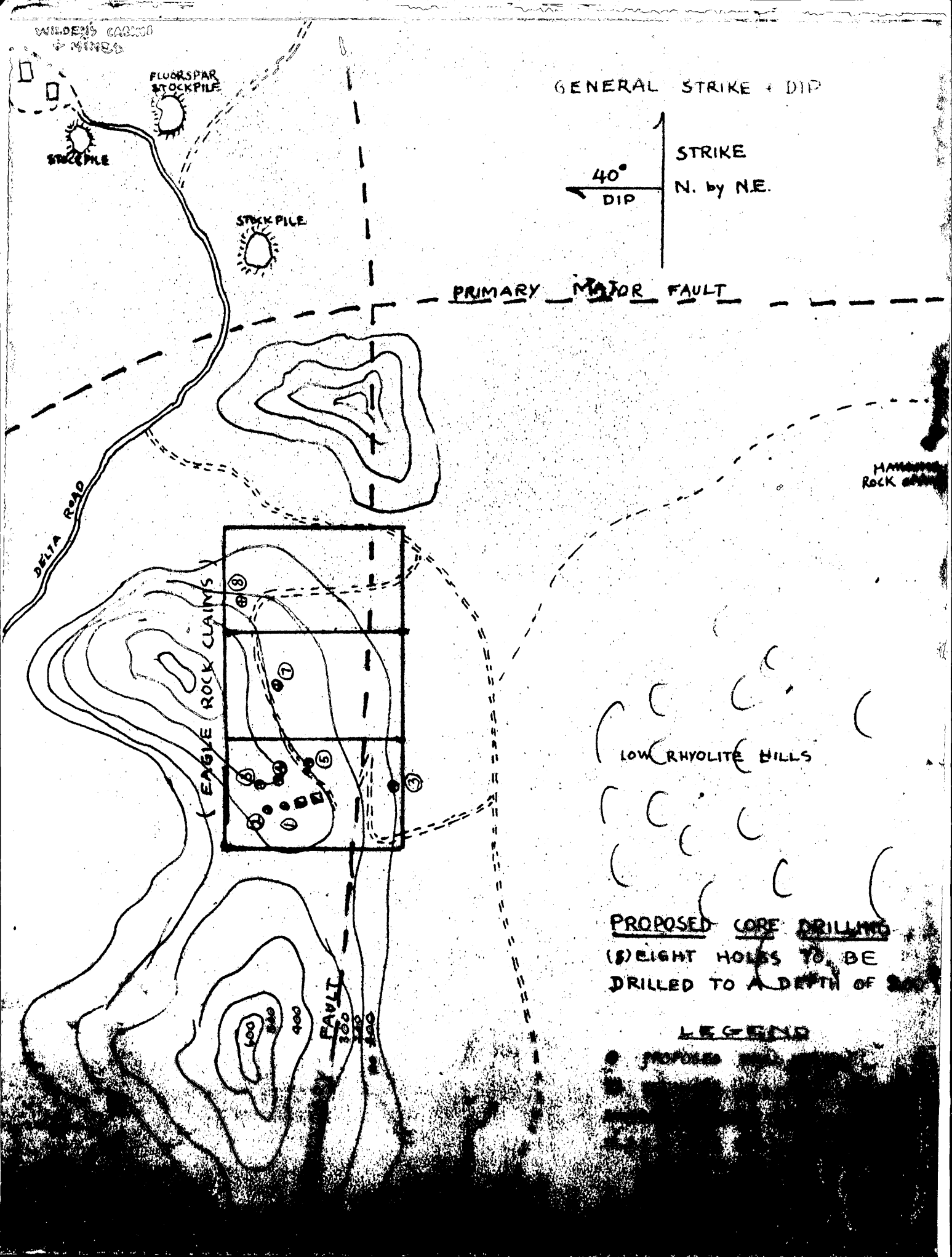
$13,600.00 total cost for drilling
750.00 total cost for consultant
$14,350.00 Total cost for exploration work


WILDER'S CABIN & MINES
FLUORSPAR STOCKPILE
STOCKPILE
STOCK PILE
GENERAL STRIKE + DIP
STRIKE
N. by N.E.
40°
DIP
PRIMARY MAJOR FAULT
DELTA ROAD
EAGLE ROCK CLAIMS
LOW RHYOLITE HILLS
FAULT
PROPOSED CORE DRILLING
(8) EIGHT HOLES TO BE DRILLED TO A DEPTH OF
LEGEND

Surname Copy

Murphy
Ellis
Nelson
Keehan
Martin

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

AUG 1 0 1955

Mr. Woodrow V. Housley
1242 Port Road
Los Angeles 66, California

Re: Docket No. DMEA-3704
(Uranium and Rare Earths)
Woodrow V. Housley and Chris Petersen
Eagle Rock claims
Juab County, Utah

Dear Mr. Housley:

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, although noting a small amount of uranium mineralization on your property, 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. Such denial, however, is made without prejudice. In the event further work on your part discloses new and more favorable evidence of ore deposition on the property, we shall be pleased to consider a new application.

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 (for)

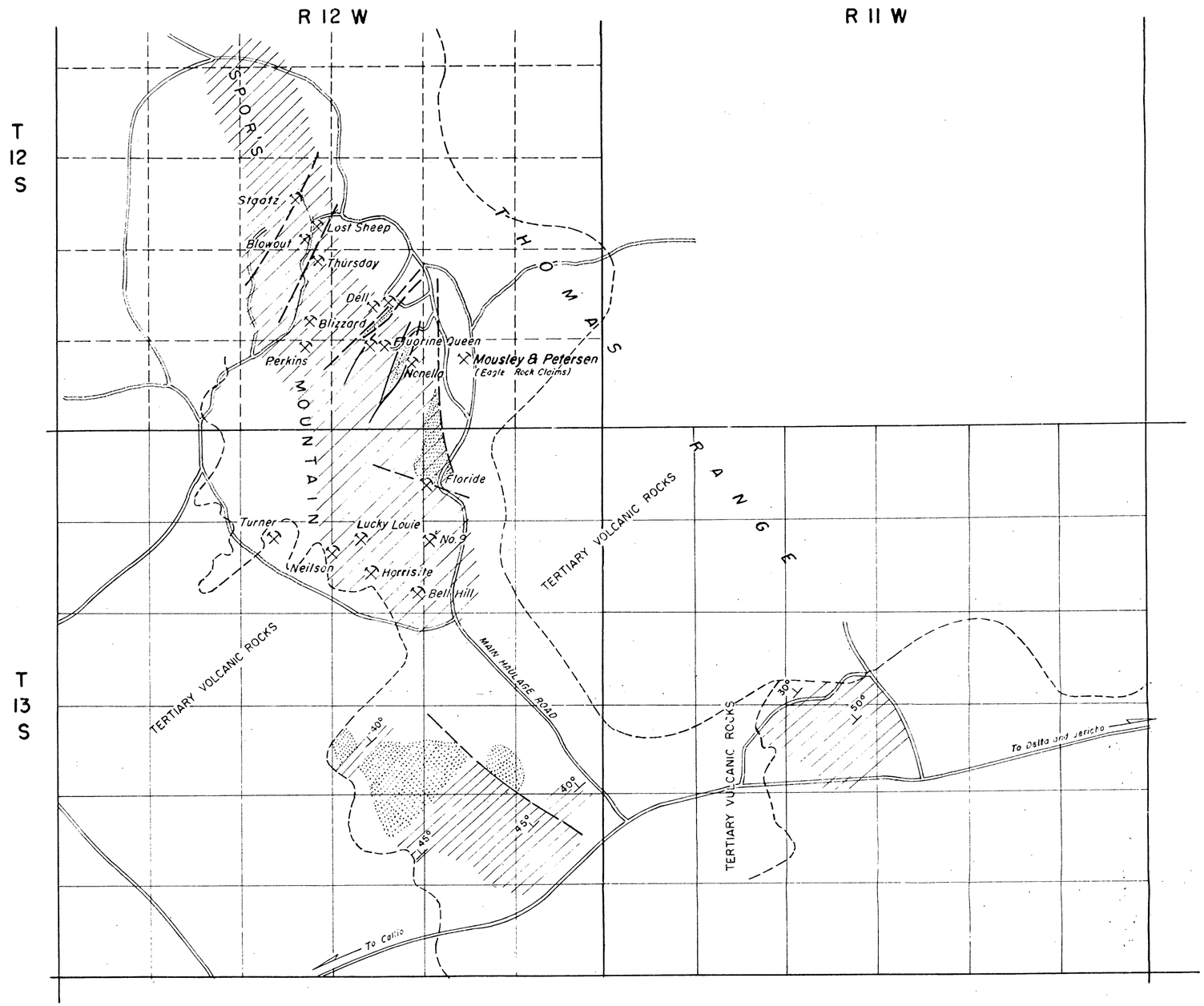
Administrator

FMMurphy/ai
8/4/55

cc to: Admr. Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKillsgaard, Rm. 3210
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

P. S. We are returning the ore settlement sheet you submitted, in accordance with the notation there. As you know, the Option and Purchase Agreement, dated January 15, 1955, was returned to you with our letter of May 18, 1955.

R.C.J.



Plan Map

0 5,000 10,000 15,000

SCALE OF FEET

LEGEND

- DOLOMITE
- QUARTZITE
- FORMATION BOUNDARY
- APPROX. LIMIT OF TERTIARY VOLCANIC ROCKS, WHERE KNOWN
- FAULT
- 45° STRIKE AND DIP OF BEDS
- BLOWOUT, MINE, OR PROSPECT

NOTE

DATA TAKEN FROM J. QUIGLEY MAP.

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 2 DMEA Docket No. 3704

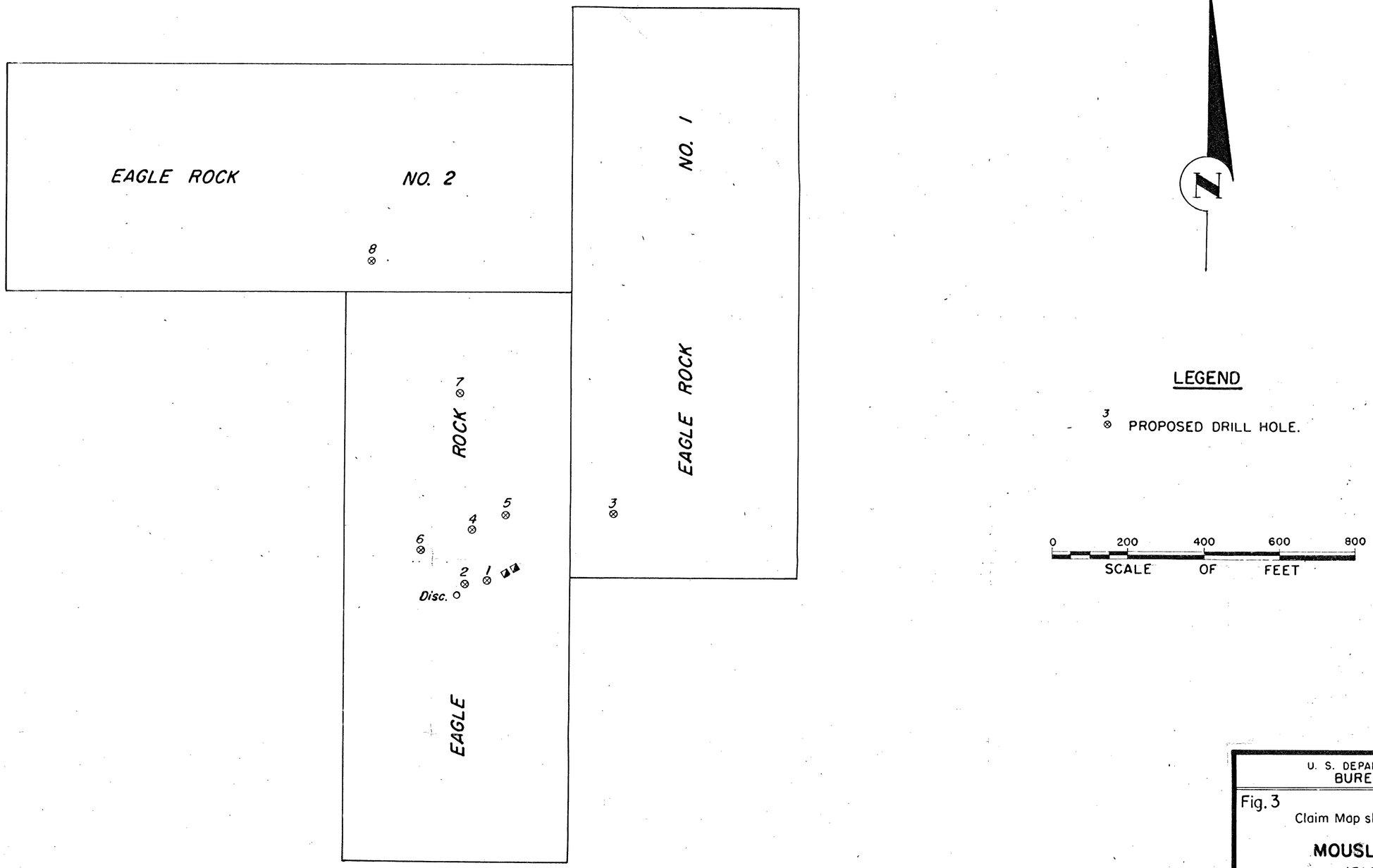
Plan Map

THOMAS RANGE FLUORITE DISTRICT

MOUSLEY & PETERSEN (EAGLE ROCK CLAIM)

JUAB COUNTY, UTAH

ENGINEER: *M. H. Howes*	DATE: JUNE 29, 1955
TRACED: JUNE, 1955; BY: A.P.T.S.	1900 - 340 - D
CHECKED:	



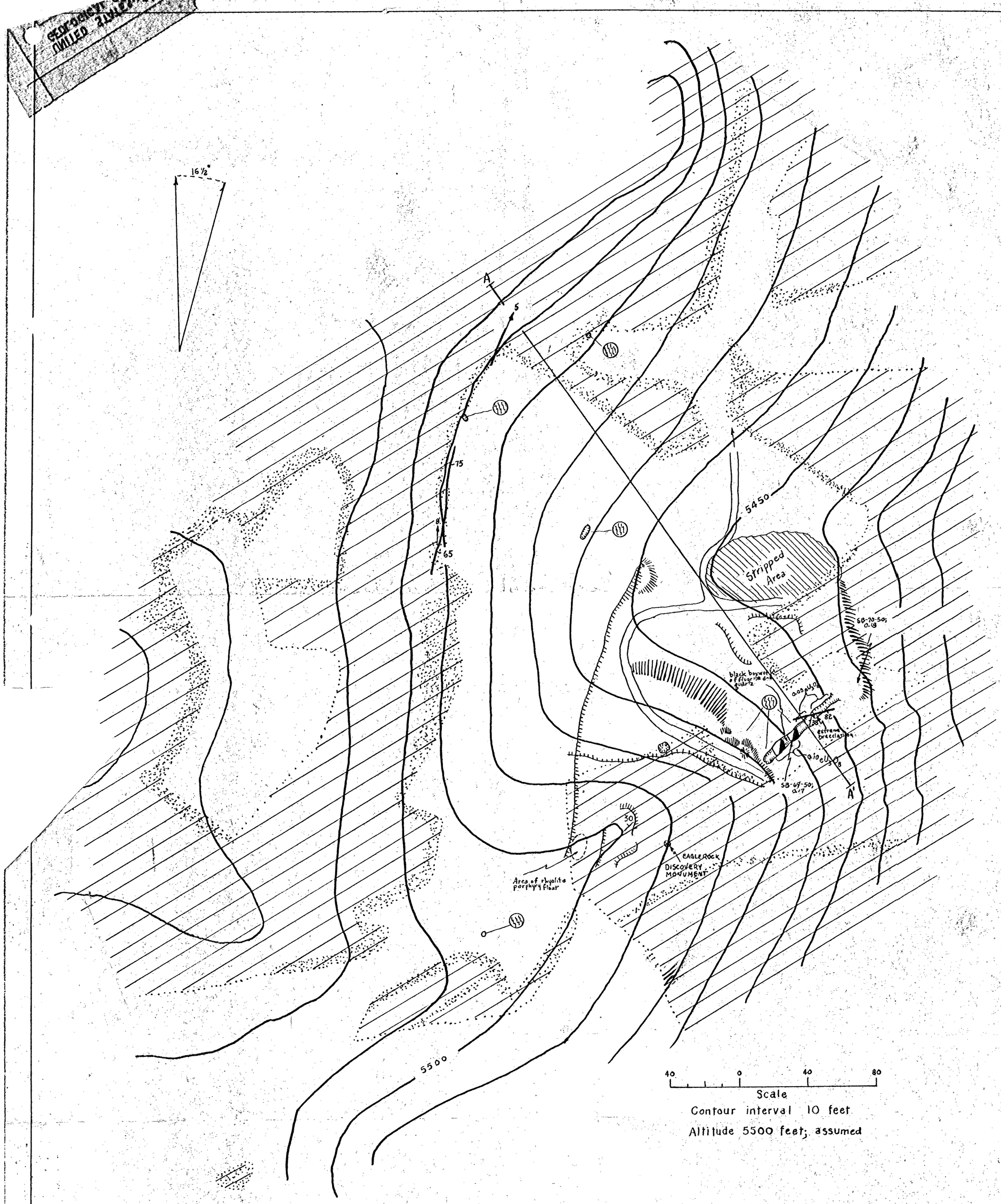
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 3 DMEA Docket No. 3704

Claim Map showing Proposed Drill Holes
of
MOUSLEY & PETERSEN
(EAGLE ROCK CLAIMS)

JUAB COUNTY, UTAH

ENGINEER: *M. H. Howes*	DATE: JUNE 27, 1955
TRACED: JUNE, 1955; BY: A.P.T.S.	1900 - 339 - D
CHECKED:	



EXPLANATION

Alluvium

Dolomite

Silicified dolomite

Strongly altered dolomite

Ore body

Approximate contact

Limit of outcrop

30 Strike and dip of beds

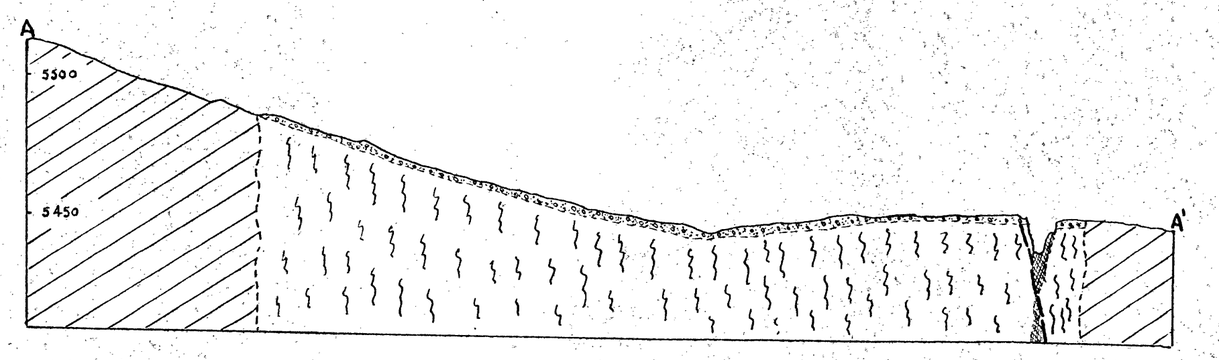
8 / 65 Fault, showing dip, bearing and plunge of slickensides

Open cut

Vertical shaft

Dump

SB-70-50; 0.18 Sample number; percent uranium



Adapted from Staatz and Bauer, TEIR 136. RW Osterstock 6-55

FIG. 3 GEOLOGIC MAP AND SECTION OF THE EAGLE ROCK PROPERTY, JUAB COUNTY, UTAH