DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3665

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Cys to USBM, USGS, and Reg. III.

This document has been recorded as

Exploration

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

Routing Slip

To:	700	Date	2/7/55
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BMEA-3665

3-29-55

Held in abeyance for some two weeks pending results of present work by Applicant. See diary of 3-29 & letter of 3-16. Samuel Miller of 649 Washington Bldg. Washington 5, D.C. requested this

700

Surname copy

Murphy
Ellis

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

JUL 29 1955

Mr. Harry E. Franks, Treasurer
Richland Uranium Corporation
225 Washington Street
Boston 8, Massachusetts

Re: Docket No. DMEA-3665 (Uranium)
Jim, Mike, Moon, and Star
claim group
Grand County, Utah

Dear Mr. Franks:

Reference is made to our letter dated June 24, 1955, in which we stated that the subject docket would be considered closed unless certain information required to process the captioned application had reached this office on or before July 24, 1955. No answer to our letter having been received, we therefore inform you that the subject docket is considered closed effective as of that date.

We regret the necessity of this action and express appreciation for your interest in the exploration program during the period your application has been under consideration.

Sincerely yours,

E. O. Mittendorf

Administrator

Copy to: Samuel Miller, Attorney
649 Washington Building
Washington 5, D.C.

FMMurphy/gla
7-26-55
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700 - Mr. Murphy
DMEA Field Team, Region III (2)

R.C.S.

Surname 700
Murphy
Ellis
Mattendorf

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

JUN 24 1955

Mr. Harry B. Franks, Treasurer
Richland Uranium Corporation
225 Washington Street
Boston 8, Massachusetts

Re: Docket No. DMEA-3665 (Uranium)
Jim, Mike, Moon, and Star
claim group
Grand County, Utah

Dear Mr. Franks:

Reference is made to our letter dated March 30, 1955, mailed to you at P. O. Box 568, c/o Arthur Jaffee, Moab, Utah, following our discussion with your attorney, Mr. Samuel Miller, concerning preliminary work which you planned to carry out on the captioned property.

Inasmuch as we have received no reply, we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data has not been received within thirty days from the date of this letter, we will then consider the docket closed.

Sincerely yours,

SIGNED
Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

Copy to: Samuel Miller, Attorney
649 Washington Building
Washington 5, D. C.

FMurphy:am
6-23-55
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
Mr. Murphy
DMEA Field Team, Region III(2)

Surname 700
Murphy
Ellis
Chronology

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

Mr. Harry E. Franks, Treasurer
Richland Uranium Corporation
225 Washington Street
Boston 8, Massachusetts

Note: This letter mailed to:
P. O. Box 568, c/o Arthur Jaffee
Moab, Utah
(by request)

MAR 30 1955

Re: Docket No. DMEA-3665 (Uranium)
Jim, Mike, Moon, and Star
claim group
Grand County, Utah

Dear Mr. Franks:

This is to acknowledge your letter, dated March 16, 1955, and the attached claim map showing the general location of seven proposed drill holes.

The above-mentioned map shows the area covered by your claims is considerably larger than was indicated on the original map, submitted with the captioned application, although the same claims are shown.

Your Attorney, Mr. Samuel Miller, visited our office on March 29. During his visit we explained the above discrepancy and also mentioned that you had not submitted various data which we had requested in our letter of February 15. Furthermore, we informed Mr. Miller that until sufficient information was presented with which to justify an examination, we were unable to authorize an inspection of the property.

Mr. Miller stated that he would advise you by letter of our observations in regard to the subject application. Also, he requested that we withhold further action until you had completed the drilling and other work mentioned in your letter of March 16.

In response to Mr. Miller's request, we have agreed to withhold action on your application for a reasonable length of time in order to permit you to complete the preliminary work planned. When we receive results of this work and other data requested we shall continue with the processing of your application.

Sincerely yours,

SIGNED
Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy:am
3-30-55
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
Mr. Murphy
DMEA FT,Reg.III(2)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.

March 28, 1955

Summary of Proposed Project

Object: Denial of application for an exploration project

Docket No.: DMEA-3665

Commodity: Uranium

Applicant: ~~Richard~~ Richland Uranium Corporation
Harry E. Franks, Treasurer
225 Washington Street
Boston 8, Massachusetts

Property: Jim, Mike, Moon, and Star groups of claims (64). One map shows claims in Secs. 7,8,18 and 19, R 21 E., T 24 S., another shows claims extend beyond these sections into Secs. 13 and 24 of R 20 E., T 24 S. Last letter, dated March 16, 1955 states that the Corporation now owns the claims; however, no documents were submitted to confirm this statement.

Date of application: January 28, 1955

Amount of application: $80,450.00

Work proposed: A half dozen shallow drill holes and then continue drilling.

Field Team Report: Not referred for examination.

Commodity Committee Members' Comment:

U. S. Bureau of Mines - John E. Crawford, dated March 24, 1955

"No evidence of uranium mineralization on the property or other substantiating information has been provided. We suggest that the Richland Uranium Corporation make a more comprehensive geologic examination of the claims. Apparently no actual prospecting was done by the organization, therefore, we recommend that the application be denied."

U. S. Geological Survey - R. D. Trace, dated March 21, 1955

"The data so far submitted by the applicant is insufficient to justify a field examination. I suggest that you contact the applicant in regard to the following two points."

"(1) The claim maps submitted under letters dated February 16 and March 16, 1955, are conflicting. Attached is a photogeologic map of Moab-10 on which I have indicated by a blue line and a green line the outline of the claims according to the two maps."

"(2) Also attached is a topographic map of the area, Moab 4 NW, Utah, on which I have traced and colored in the geology in the vicinity of applicant's claims. The geology was taken from the photogeologic map Moab-10. This map suggests that, at most, only the lower third of the Salt Wash member crops out on or underlies the applicant's claims. In general, the lower third of the Salt Wash does not contain many ore deposits. I suggest, therefore, that you ask the applicant to show us (preferably on the Moab 4 NW topographic map) where uranium is present, either on or in the vicinity of his claims."

Rare and Miscellaneous Metals Division - F. M. Murphy, March 28, 1955

A study of the maps forwarded to this office by Mr. Trace indicates that their is little possibility of finding significant deposits of uranium ore on the subject property. All the uranium-bearing Brushy Basin member and the upper part of the Salt Wash member of the Morrison formation have been eroded from the subject property; therefore, there is no objective or target for exploration work.

This division requested further information and data on the subject application in a letter, dated February 15, 1955. The applicant's reply did not answer the questions asked. Also, the map attached to the letter, does not agree on the location of the claims with respect to a previous map that he forwarded.

In transmitting the subject application, the Regional Executive Officer, notes in his memorandum dated February 3, 1955:....."Mr. Harry E. Franks, President and

Treasurer of the Richland Corporation, is also Treasurer of Trans-American Television Enterprises, Inc., the applicant company of DMEA Docket No. 3459, which was formally closed by our letter of January 24, 1955, because we were unable to obtain an acceptable application."

"We anticipate the same trouble with this application as was experienced with DMEA Docket 3459, therefore we strongly recommend that the applicant be required to submit a complete application before it is accepted."

This Division has had very little satisfactory data from the Applicant. However, as the available geological data indicate that the property has little or no merit, there seems no point in requesting that the Applicant submit data, when it is quite certain that the application would be finally denied.

Therefore this Division recommends that the application be denied per se.

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

3/25/55 gfa

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

March 24, 1955

Memorandum

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

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3665, Richland Uranium Corp., Jim, Mike, Moon and Star claims, Grand County, Utah

I have reviewed the additional information supplied by the Richland Uranium Corporation on behalf of their application, DMEA Docket 3665. Joseph O. Hosted, Washington representative of the Atomic Energy Commission also reviewed the information, and we have discussed it together.

On page 2 of the attached geologic report about the Jim, Mike, Moon and Star claims it is stated that, "A detail geologic examination is necessary to determine what sort of exploration work is necessary to prove this property." No evidence of uranium mineralization on the property or other substantiating information has been provided. We suggest that the Richland Uranium Corporation make a more comprehensive geologic examination of the claims. Apparently no actual prospecting was done by the organization; therefore, we recommend that the application be denied.

John E. Crawford
John E. Crawford

Attachment

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

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

March 24, 1955

Memorandum

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

From: Bureau of Mines Member
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BUREAU OF MINES
WASHINGTON 25, D. C.

March 24, 1955

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Branch of Rare & Precious Metals
J. C. Hosted (2)
J. E. Crawford (2)

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 22 1955

March 21, 1955

Re: DMEA-3665
The Richland Corp.
Moon & Star claims
Grand County, Utah
$80,450 - Uranium

Memorandum

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

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

Subject: Review of supplemental data

The data so far submitted by the applicant is insufficient to justify a field examination. I suggest that you contact the applicant in regard to the following two points.

(1) The claim maps submitted under letters dated February 16 and March 16, 1955, are conflicting. Attached is a photogeologic map of Moab-10 on which I have indicated by a blue line and a green line the outline of the claims according to the two maps.

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R. D. Trace

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

March 21, 1955

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R. D. Trace

RDTrace:hlm
G-3/21/55

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

IN REPLY REFER TO:

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

March 21, 1955

Re: DMEA-3665
The Richland Corp.
Moon & Star claims
Grand County, Utah
$80,450 - Uranium

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

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R. D. Trace

RDTrace:hlm
G-3/21/55

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

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
MAR 22 1955

March 21, 1955

Re: DMEA-3665
The Richland Corp.
Moon & Star claims
Grand County, Utah
$80,450 - Uranium

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R. D. Trace

RDTrace:hlm
G-3/21/55

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

3/17/55 gla

Telephones
LAfayette 3-8352
LAfayette 3-8353

Field Office
WHITE CANYON, UTAH

RICHLAND URANIUM CORPORATION

225 WASHINGTON STREET
BOSTON 8, MASS.

Defense Minerals Administration
RECEIVED
MAR 17 1955

EXECUTIVE OFFICES

March 16th, 1955

Ernest Wm. Ellis, Chief,
Rare & Misc Metals Div.,
U. S. Dept. of Interior,
DMEA,
Washington, 25, D. C.

re;- Docket No. DMEA-3665 (Uranium)
Jim, Mike Moon, and Star Claims
group, Grand County, Utah

Dear Sir,-

Please be advised that we have at last passed papers on the 64 claims, and we now own them.

We are quite anxious now to get started in exploring the property properly, because we have very strong reason to believe that we do have a substantial quantity of good ore in these claims.

Enclosed please find a copy of the suggested plans for shallow drilling on the property as sent in to me from my Geologist there. We plan to put in about half a dozen holes marked X-1 to X-6 and preliminary bull dozing, etc. right away.

I am leaving here March 28th and expect to be on the property March 29th, and we will start then.

If possible, I would like you to have your inspector on the property with us then. My Geologist, and intended operators should be there then.

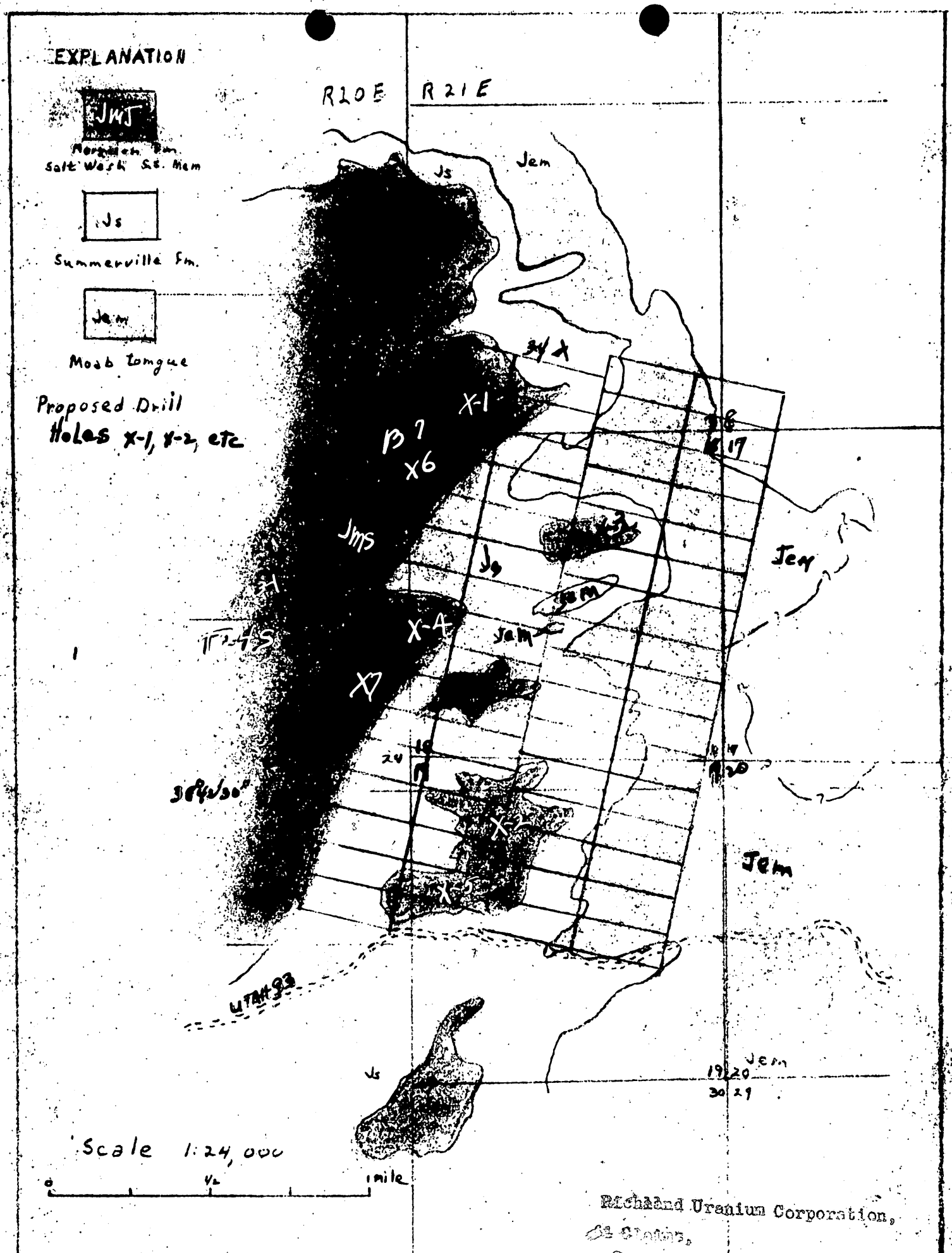
Please advise what you can do to help us.

write 3-29-55
P.O. Box 568
Moab Utah
c/o Arthur Jaffe
for the next
10 days or 2 weeks
EWE

Richaland Uranium Corporation,

Harry E. Franks, Treas.

Harry E. Franks.


EXPLANATION
JWJ
Morgan Fm.
Salt Wash S.S. Mem
Js
Summerville Fm.
Jem
Moab Tongue
Proposed Drill
Holes X-1, X-2, etc
R20E
R21E
Js
Jem
X-1
X6
Jms
X-4
X-2
Jem
Jem
Jem
Jem
UTAH 93
Scale 1:24,000
0
1/2
1 mile
Richland Uranium Corporation,
Grand County, Utah

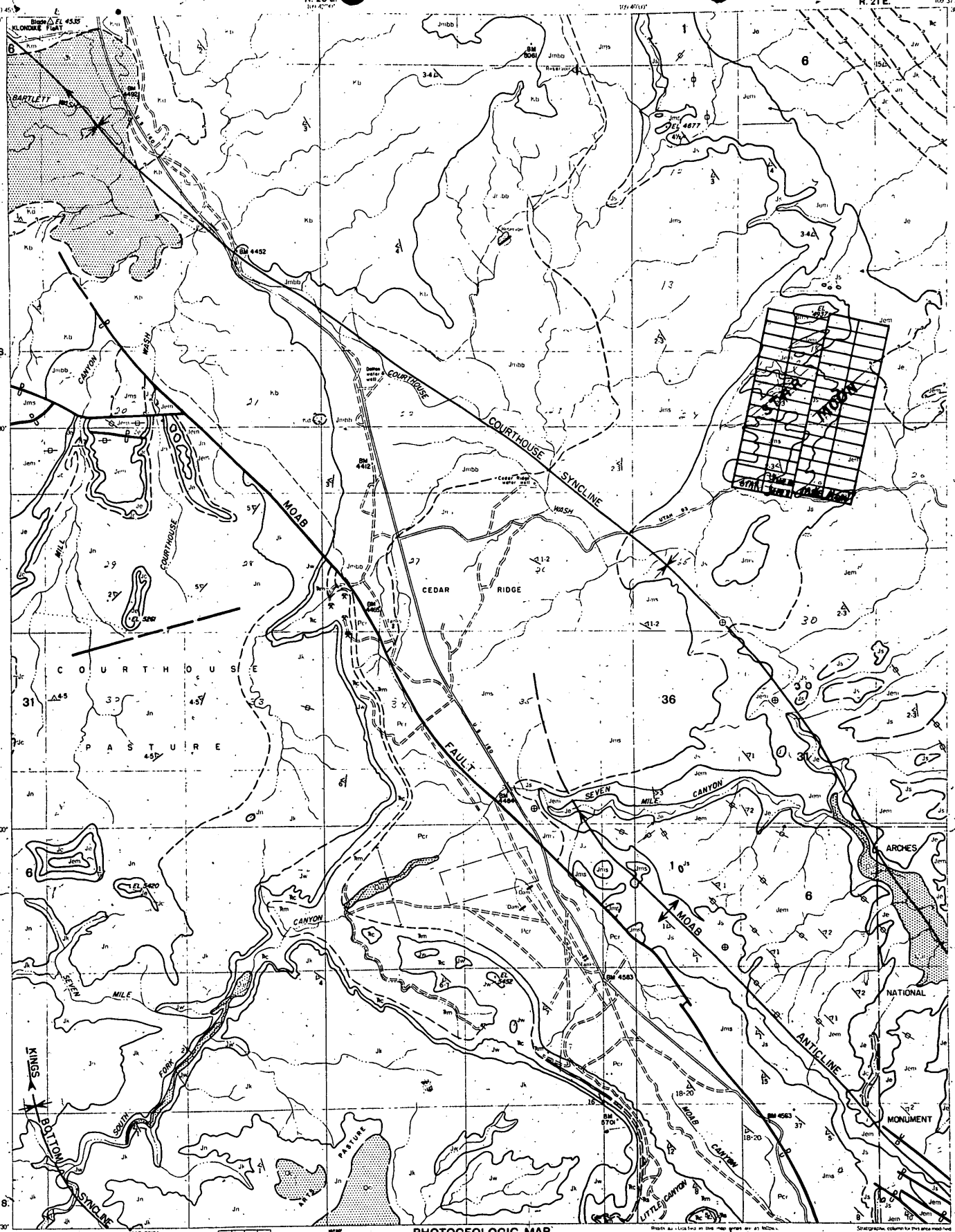
DEPARTMENT
Defense Chemical
RECEIVED
MAR 17 1955

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 818



EXPLANATION

Period	Epoch	Symbol	Formation
QUATERNARY		Qal; Qc	Alluvium, Qal; covering deposits, undifferentiated, Qc
CRETACEOUS	Upper	Km	Mancos shale
	Lower, Upper	Kd	Dakota sandstone (?)
	Lower	Kb	Burro Canyon formation
JURASSIC	Upper	Jmbb; Jms	Morrison formation: Brushy Basin shale member, Jmbb; Salt Wash sandstone member, Jms
		Js	Summerville formation
		Jem; Je	Entrada sandstone: Moab tongue, Jem
	Middle, Upper	Jc	Carmel formation
		Jn	Navajo sandstone
JURASSIC (?)		Jk	Kayenta formation
		Jw	Wingate sandstone
TRIASSIC	Upper	Rc	Chinle formation
		Rs	Shinarump conglomerate
	Lower	Rm	Moenkopi formation
PERMIAN		Pcr	Cutler and Rico formations, undifferentiated

Contact
(Can be accurately located within 30 feet horizontally)

Contact
(Can be approximately located within 30 to 200 feet horizontally)

Contact
(Cannot be located accurately; probable error greater than 200 feet)

Probable or doubtful contact

Fault
U, upthrown side; D, downthrown side; dashed where approximately located)

Anticline
Showing trace of axial plane and direction of plunge
(Dashed where approximately located)

Syncline
Showing trace of axial plane and direction of plunge
(Dashed where approximately located)

Strike and dip of beds
(Based on field measurement)

Strike and dip of beds
(Based on photo-interpretation)

Horizontal beds

Strike of approximately vertical joints
(Based on photo-interpretation)

Uninterpretable linear feature on photograph
(May be geologically significant)

Mine or prospect — **Spring**

Primary road — **Secondary road**

Trail — **Fence**

Surveyed line

National Monument boundary

Windmill — **BM 4563 Bench mark**

Note: Field data indicate that the mines in this map area are in lenses of the Shinarump conglomerate, which cannot be differentiated on aerial photographs.

PLANIMETRIC BASE MAP TAKEN FROM U. S. GEOLOGICAL SURVEY TOPOGRAPHIC MAP MOAB 4 N W (UNPUBLISHED)

This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature.

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

MOAB QUADRANGLE

PHOTOGEOLOGIC MAP
MOAB-10
GRAND COUNTY, UTAH

PHOTOGEOLOGY BY C. E. BATES
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH
SCALE 1:24,000
APRIL 1953

Roads are classified on this map series as follows: Primary roads are hard-surfaced and of wide, traversable; Secondary roads are hard-surfaced or improved earth roads, traversable generally by passenger cars; Trails are not traversable by passenger cars, but are traversable by foot or horseback. When other information is lacking, roads are classified by their appearance on aerial photographs.

Stratigraphic column for this area modified from U. S. Geol. Survey Bull. 908, 1943.

U 246 NW

MOAB BLUEPRINT CO.
MOAB, UTAH

DMEA-3665

DEPARTMENT OF THE INTERIOR
Bureau Minerals Administration
RECEIVED
FEB 14 1955

2/18/55 gla

Telephones
LAfayette 3-8352
LAfayette 3-8353

Field Office
WHITE CANYON, UTAH

RICHLAND URANIUM CORPORATION
225 WASHINGTON STREET
BOSTON 8, MASS.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 17 1955

EXECUTIVE OFFICES

Feb. 16th, 1955

Ernest Wm. Ellis Chief,
Rare & Miscellaneous,
Metals Division,
U. S. Dept. of the Interior,
Defense Minerals Exploration Administration,
Washington, 28, D. C.

re;- Docket # DMEA-3665 (Uranium)
Jim, Mike, Moon and Star
Claim Group, Grand County,
Utah

Dear Mr. Ellis,

Thank you for your letter and contents received here today. I am enclosing Geological Map, with the location of the claims marked thereon. This should answer your questions partly. I am also enclosing the Geological Report in quadruplicate,-- which will answer more of the questions. There are several mines in the general area that are succesfully mining and delivering ore that are in the same formation that we have on most of these claims.

We have exercised the option on the purchase of the claims,-- the lawyers have just about finished searching the title and the abstract of title together with the title opinion will be delivered here by the first of next week, so this will then eliminate, after the papers are passed this coming week,-- any necessity for the "Owner's consent to lien", unless you will want us, the then owners of the property to fill out these consent papers.

The DMEA forms MF-103 should read the Richland Uranium Corporation,- if you want me to make out new papers to read correctly, I will so do.

Ralph Jaffe, our consukting Geologist resides at Moab, Utah,-- and is available at any time to accompany your men on their inspection or helpful advice at any time,-- We are asking him to prepare the additional information you've requested , in the meantime.

thank you kindly,
The Richland Uranium Corporation,
Harry E. Franks. Treas.

Harry E. Franks

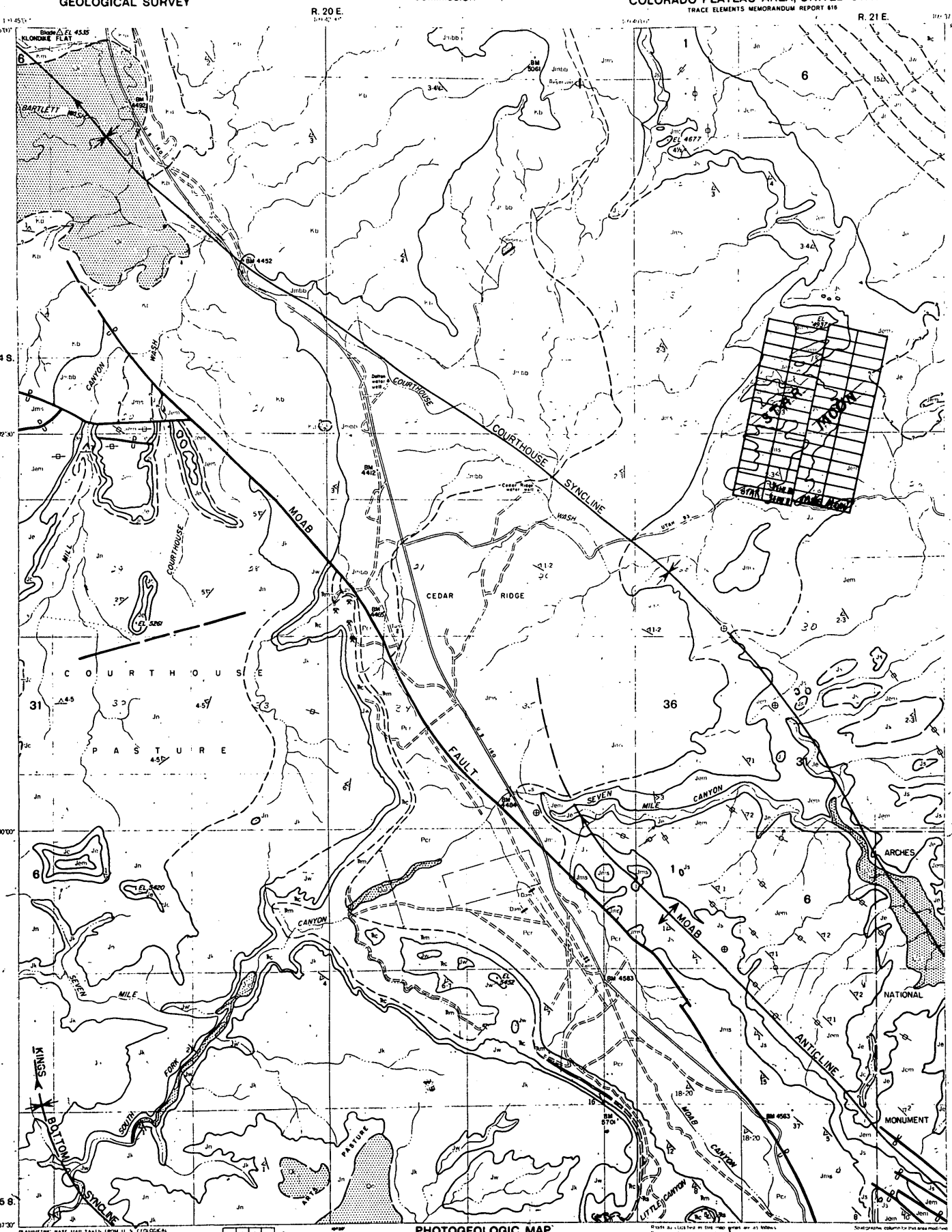
enclosed 4 copies Geologsts report
1 Geological map, showing
location of the claims

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 616



EXPLANATION

QUATERNARY

Alluvium, Qal; covering deposits, undifferentiated, Qc

CRETACEOUS

Upper — Mancos shale (Km)

Lower — Dakota sandstone (?) (Kd); Burro Canyon formation (Kb)

JURASSIC

Upper — Morrison formation (Jmbb, Jms); Brushy Basin shale member, Jmbb; Salt Wash sandstone member, Jms; Summerville formation (Js)

Middle and Upper — Entrada sandstone (Je); Moab tongue, Jem; Carmel formation (Jc)

JURASSIC (?)

Navajo sandstone (Jn); Kayenta formation (Jk); Wingate sandstone (Jw)

TRIASSIC

Upper — Chinle formation (Rc)

Lower — Shinarump conglomerate (Rs); Moenkopi formation (Rm)

PERMIAN

Cutler and Rico formations, undifferentiated (Pcr)

Contact
(Can be accurately located within 30 feet horizontally)

Contact
(Can be approximately located within 30 to 200 feet horizontally)

Contact
(Cannot be located accurately; probable error greater than 200 feet)

Probable or doubtful contact

Fault
(U, upthrown side; D, downthrown side; dashed where approximately located)

Anticline
Showing trace of axial plane and direction of plunge
(Dashed where approximately located)

Syncline
Showing trace of axial plane and direction of plunge
(Dashed where approximately located)

Strike and dip of beds
(Based on field measurement)

Strike and dip of beds
(Based on photo-interpretation)

Horizontal beds

Strike of approximately vertical joints
(Based on photo-interpretation)

Uninterpretable linear feature on photograph
(May be geologically significant)

Mine or prospect — Spring

Primary road — Secondary road

Trail — Fence

Surveyed line

National Monument boundary

Windmill — BM 4563 Bench mark

Note: Field data indicate that the mines in this map area are in lenses of the Shinarump conglomerate, which cannot be differentiated on aerial photographs.

PLANIMETRIC BASE MAP TAKEN FROM U. S. GEOLOGICAL SURVEY TOPOGRAPHIC MAP [illegible] & [illegible]

This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards and nomenclature.

4	3	2	1
5	6	7	8
12	11		9
13	14	15	16

MOAB QUADRANGLE

TRUE NORTH
MAGNETIC NORTH

PHOTOGEOLOGIC MAP
MOAB-10
GRAND COUNTY, UTAH

PHOTOGEOLOGY BY C. E. BATES
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH
SCALE 1:24,000
APRIL 1953

Roads are located on this map generally as follows: Primary roads are maintained and paved, traversable in fair weather by ordinary vehicles; secondary roads are gravel or dirt, generally traversable by passenger cars, but not traversable by passenger cars in wet weather; trails are not traversable by passenger cars. Where open, information is lacking, roads are classified by their appearance on aerial photographs.

Stratigraphic column for this area modified from U. S. Geol. Survey Bull. 908, 1940.

U 246 NW

MOAB BLUEPRINT CO.
MOAB, UTAH

Geological Report
From : A . Jaffe
To: Richland Uranium Corporation

INTRODUCTION

This report is a preliminary summary of the geology and uranium possibilities on a group of 64 adjoining unpatented lode mining claims known as Jim 1 and 2, Mike 1, Moon 0 through 30 inclusive and Star 0 through 29 inclusive.

The reconnaissance of the area was undertaken by the writer at the request of Mr. Harry E. Franks, of Boston, Massachusetts.

Many occurrences of uranium and vanadium have been reported in Grand County, Utah, in the past few years. At the present time, there is a great deal of activity in regard to exploration, development and mining of uranium ore in the formations were uranium mineralization is known to exist. In the area, which this report covers, the Morrison of Jurassic age and the Chinle and Shinarump of Triassic age are the known ore-bearing formations. These formations are known to contain uranium mineralization of commercial grade, and in many cases are is being produced at a profit from mines near these claims

LOCATION AND ACCESSABILITY.

The group of claims under investigation is located in sections 13 and 24, Range 20 East, Township 24 South, and Sections 7, 8, 17, 18, and 19 Range 21 East, Township 24 South, Grand County Utah. It is possible to drive to these claims on existing roads.

CLIMATE

The climate in the Colorado plateau area is characterized by aridity and great temperature ranges. Rainfall and Humidity are low. Precipitation averages around 20 inches a year. Water supply is adaquate; working conditions are generally good throughout the year.

PHYSIOGRAPHY

Most of Southeastern Utah is part of a ruggedly dissected Physiographic province known as the Colorado Plateau. This province covers an area of about 130,000 square miles and lies in parts of four states, Southeastern Utah, Southwestern Colorado, Northeastern

Arizona and Northwestern New Mexico. This province is composed of deeply incised ca nyons, flat topped mesas, broad shallow valleys and local laccolithic mountains. The sedimentary beds range from Late Paleozoic to Cenazoic in age; these beds are generally horizontal or nearly horizontal; in some places the beds have been disturbed by broad folds and high angle faults. These folds and faults were probably caused by the laccolith intrusions.

GEOLOGIC SETTING

These claims lie on the west limb of the Courthouse Syncline. This syncline is flanked in part by the Moab Valley Anticline, on the west, and the Salt Valley Anticline, on the East. This area is within the boundaries of the Paradox Basin.

There are two sets of faults in this area. The major set runs parallel to the anticlines and synclines in a northwestward direction and the minor set runs perpendicular to the major set. It is believed by the geologist that these faults carried the ore forming solutions.

The sediments exposed on these claims are all Jurassic in age. The following formations going from the youngest tothe oldest were observed in the area; Morrison, Summerville, Entrada, Carmel and Navajo. Of these the Morrison has been the main producer of uranium. Approximately 3/8th of these claims have the Salt Wash member of Morrison exposed. Up until now the Salt Wash has been the largest producer of uranium in the Colorado Plateau. Uranium mineralization has also been found in the Entrada formation.

Besides the Salt Wash member of the Morrison, the area could be drilled for the deeper lying Chinle and Shinarump formations. This drilling would run about 700 to 900 feet. (according to available information in this area, for most rock units, the thicknesses are preliminary because of insufficient stratigraphic control. As more drilling is done in the area estimated drilling depths will be more accurate. Some engineers in the area believe that drilling will be shallower than the present estimates for this area)

ECONOMICS OF THE AREA

In the Arches area, in which these claims are located, Uranium has been shipped from deposits in the Salt Wash member of the Morrison formation. On the property adjoining the claims and in the same stratigraphic horizon that underlie the 64 claims (approximately 3/8th of the area) uranium mineralization was uncovered while building a road.

There is a great deal of exploration activity currently going on in this area; both in Morrison and Shinarump formations.

At the present time, drilling activities are increasing. Several Companies have started and others are planning to drill for the Chinle and Shinarump formations on a large scale. These operations should be watched. If they hit ore, and the chances are good that they will, the uranium potential of the 64 claims this report covers would increase.

The cost of exploration in the Morrison formation will not be high. Chances of shipping ore of commercial grade is good.

CONCLUSIONS

The 64 claims discussed in this report are ideally situated both for surface and underground mining. Although more geologic work will have to be done to determine the best places to start exploration work, it is believed by the writer chances of favorable operations are excellant

In the areas in which the Morrison is exposed there are places where a scintallation counter reads much higher than normal background. — why not get analyses ??

Besides the uranium potential of the Morrison formation the property also has a potential second howizon in the Triassic formations.

RECOMMENDATIONS

A detail geologic examination is necessary to determine what sort of exploration work is necessary to prove this property. From my visit on this property I saw several areas that warrants some sort of exploration work. It is possible that some of the area could be proven by stripping and others by shallow drilling. If exploration proves favorable in the Morrison, a second phase drilling program could be started to determine the ore possibilities of the underlying Chinle and Shinarump formations.

I would strongly recommend that this property be developed as surface indications strongly point to uranium mineralization on these claims.

Arthur Jaffe

February 10, 1955.

Consultant Geologist.

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DEPARTMENT OF THE INTERIOR
Atomic Energy Administration
RECEIVED
FEB 17 1955

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Property of the Uranium Library at Utah State University

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February 10, 1955.

2/17/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 17 1955

February 16, 1955

Memorandum

To: Ernest W. Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA-3665, Richland Uranium Corp., 225 Washington Street, Boston 8, Massachusetts

I have reviewed the attached application of the Richland Uranium Corporation, DMEA Docket 3665, and have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We recommend that the application be denied for lack of information concerning plans of the Richland Uranium Corporation. No logical exploration program has been presented, and there is no evidence whatsoever of uranium mineralization on the 64 mining claims of the Corporation located in Grand County, 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

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Telephones
LAfayette 3-8352
LAfayette 3-8353

Denied

Field Office
WHITE CANYON, UTAH

RICHLAND URANIUM CORPORATION

225 WASHINGTON STREET
BOSTON 8, MASS.

DEPARTM
Denver M
FEB - 4 19

EXECUTIVE OFFICES

January 28th, 1955

W. M. Traver
E. N. Harshman,
U. S. Dept of Interior
DMEA
224 New Custom House
Denver, 2, Colorado.

Gentlemen,-

Enclosed please find our application for a loan under your DMEA Order -1 amended.

To start with, our Geologist, Mr. Arthur Jaffe resides right in Moab, which I understand is not very far from our claims on which we are herewith making the applications,-- any investigations or investigators that you intend to have may contact him right there in Moab,-- his telephone number is 2801 and he will furnish you with any additional information if you so wish or he will take your men right to the claims,-- which will make it much easier for them.

We are purchasing these claims from the men employed in and now operate the San Juan engineering Co., they staked the claims, surveyed them,-- mapped them. etc. etc. I have every reason to believe that the work that they did was excellent work,--

5b We intend to first bulldoze the ground so that the drill rigs can comfortably enter that part of the property that we will want to drill out. The Geologist under whom this work will be conducted,-- intends to drill out the Morrison formations on the area.-- that match the areas in the adjoining property where they are now stripping in these same like formations.

5d I have had no operating experience, but I intend to hire capable supervision for the carrying our of this work,-- such as our present geologist and mineralogist. Our vice president, Harry Butters, ins a graduate mining engineer of MIT.

6 all these estimated will be furnished on an accompanying sheet.

7. Yes, we are prepared to furnish our share of the cost of the proposed project in accordance with the regulations on Government participation. and in Cash.

yours very truly,

The Richland Corporation.

Harry E. Franks. Treas.

Harry E. Franks

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Minerals Administration
RECEIVED
FEB 4 1955

Date Rec'd. JAN 31 1955
BUREAU OF MINES
Denver, Colorado

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. 3665
Metal or Mineral Uranium, Vanadium
Date Received 2-4-55
Estimated Cost $80,450
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: The Richland Corporation, a Delaware corporation, 225 Washington Street, Boston, 8, Mass.
Harry F. Frank, Pres. & Treas., 60 Beacon St., Chestnut Hill, 67, Mass..
Harry Butler, Vice Pres., 116 Englewood Ave., Boston, Mass..
C. E. Irwin, Sec'y, 111 Lentinghouse St., North Easton, Mass., Cape Cod.

(*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 Sixty four important lode mining claims located as the Kim 1 & 2, bits 1, Moon 0 through 30 inclusive, and Star 0 through 19 inclusive, all located in Sections 13 & 24, range 20 East, Township 24 South, and sections 7, 8, 17 18 and 19, range 21 East, Township 24 South, Grand County, Utah

(*b*) State any mine name by which the property is known. only as described above.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise The option agreement for purchase has been exercised. Transfer of title happens as soon as I sign in triplicate.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Nos. 336334 through 336354 in book 39, pages 90 through 105 and also numbers 276365 through 276369 and 276372 through 276379 books 34 & 36; pages 420-427 in 34 & 215-219 in 36

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. NONE

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. NONE

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

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

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

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium and Vanadium plus any other metals present in the ore.

(*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 24 days and be completed within 6 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. See accompanying letter.

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)?

(*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 January 6th, 1955

Richfield Uranium (Applicant) Corp.

By Harry R. Franks Pres.

Harry R. Franks

address 105 Washington Ave.,

Sonora, Calif.

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

The Richland Uranium Corporation Jan. [illegible], 1953

/6 Estimate of Costs.

Colorado Minerals Administration
RECEIVED
FEB - 4 1955

a. Independent Contracts

10,000 feet of diamond drilling @ 1.73 per foot		17,300.
5,000 feet of core drilling @ 1.80 / foot		9,000.
170 hours of bulldozing (8 min.) @ 13./ hr.		2,200.
		28,500.

b. Labor, Supervision, Consultants.

10 weeks Geological consultant @ 500./week		5,000.
10 weeks Johnson & Dolpero (3) @ 60. each per week		1,200.
		6,200.

c. Operating Materials and Supplies.

Diesel Generating Plant (two or more) for electricity 10 KW		
Motor Fuel 1,000 gallons		5,000.
Fuel Fuel 1,000 gallons		750.
4 shovels, 4 picks, 4 steel buckets, 10 water buckets, 5 hand axes		150.
		200.
		6,100.

d. Operating Equipment

2 D-6 Caterpillar Bull Dozers - factory rebuilt @ $ 5,000 each delivered		10,000.
1 Caterpillar loader - factory rebuilt		7,500.
1 motor truck that will haul both rotor and fuel		2,000.
1 Pick up truck for Chevrolet		2,000.
		21,500.

e. None

f. New Buildings, Improvements, Installations.

1 Trailer house or living quarters complete		7,500.
1 Shed for equipment, tools		1,000.
		8,500.

g. Miscellaneous.

Rental part time for maintaining equipment 8 mos.		1,000.
Parts replacing during this period		300.
Analytical work		150.
Assaying 1 lead-tracer and [illegible] (estimated)		200.
Rotary's commission		500.
Employee's liability insurance		600.
Pay roll taxes		500.
		3,250.

h. Contingencies.

Reserve of necessary allowance for contingencies are included in the cross-check above. 3,000.

Total [illegible]

-COPY-

A ARTHUR JAFFE
Consultant Geologist and Mineralogist
Phone 2301
Moab, Utah

Minerals Administration
RECEIVED
FEB 14 1955

January 14th, 1955

Harry E. Franks,
285 Washington St.,
Boston, 6, Mass..

Dear Mr. Franks,

On January 14, 1955, on your instructions, I visited the 64 adjoining claims unpatented lode mining claims identified as the JEM 1 & 2 Fike 1, Mean 0 through 20 inclusive, and Star 0 through 29 inclusive. These claims are located in Section 18 & 24, range 20 East, Township 24 South and Sections 7, 8, 17, 18 , and 19 Range 21 East, Township 24 South, Grand County, Utah.

Approximately 5/8 of these claims have the Salt -wash member of the Morrison Foundation exposed on them. The rest of the area the Summerville, Entrada, and Navajo formation are exposed; these are all older than the Chinlerch. Up until now, the Chinlerch has been the major Uranium producer in the Colorado Plateau area. No Uranium has been found in the Summerville, or Navajo, but some ore has been found in the Entrada. Furthermore this area could later be drilled for the deeper lying Chinle and Shinarump formations. The Shinarump is now being mined in many areas and large tonnages are expected to be found in this formation.

Although no Uranium was seen on the property ore has been shipped from the area. On the adjoining property a gr at deal of activity is going on and ore has been discovered. The same ore bearing strata extends through the claims I examined. Very little road construction would be necessary to develop these claims. On the Morrison, work development costs would be relatively low, and if ore is mined, it could be done by stripping. Although any mining program is speculative, the value of an ore discovery warrants taking long odds. The price of these claims make these properties an excellent investment. If at a later date, it is decided that you do not want to mine these claims, they could be sold at a profit.

It must be remembered that although the potential ore horizons do exist on these claims, the mere fact that they do exist does not give assurance that commercial ore will be found therein. This can only be determined and the extent of an ore body ascertained by performing actual exploration work.

I would recommend that your option on these properties be exercised.

Very truly yours,

Arthur Jaffe (signature)

ARTHUR JAFFE

Consultant Geologist.

Surname

TO
Murphy
Ellis
Johnson

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

FEB 1 5 1955

Mr. Harry L. Franks, Treasurer
The Richland Corporation
225 Washington Street
Boston 8, Massachusetts

Re: Docket No. DMEA-3665 (Uranium)
Jim, Mike, Moon, and Star claim group
Grand County, Utah

Dear Mr. Franks:

The above-docketed application, dated January 28, 1955, requesting exploration assistance has been referred to this Division for review and recommendations. However, the data submitted is not complete, therefore, in order to further process the subject application we require the following:

1) Maps of the claims showing:

a) Location of the claims in reference to some fixed land mark, such as section corner, etc.

b) Locations of indicated uranium mineralization (anomalies-assays) or/and favorable geological structure.

c) Approximate contour lines of the principal exposed formations.

d) Sections showing the approximate surface levels, with the horizons of the principal ore-bearing formations indicated on the section.

e) Approximate location of each individual proposed drill hole

2) Supporting data giving the reason for employing the proposed drill-hole pattern, and giving the estimated depth of each drill hole.

3) Copies of the purchase agreement pertinent to the land described in the application. Note: If the land is held only on an option to purchase, then said option must allow for the right of possession for the length of time required under an exploration contract.

4) If the land is not owned outright by your Corporation, the Government requires 6 copies of an "Owner's Consent to Lien" duly signed by the present owners, before an exploration contract is executed.

R.C.B.

5) Clarification of the name of your Corporation. The application cites two names, "The Richland Corporation" and "Richland Uranium Corporation."

Ordinarily, physical evidence of mineralization is required before the Defense Minerals Exploration Administration will recommend a project. However, in the exploration for uranium on the Colorado Plateau, structural criteria indicating favorable trends of known uranium-bearing zones in the Morrison, Entrada, Chinle, Shinarump, and Cutler formations are sometimes accepted, if such formations outcrop on, or have been located by drilling or shafting performed on or adjacent to the land in question.

Therefore, any other additional information, which might indicate favorable possibilities of uranium mineralization on your group of claims will assist this Agency in determining whether or not a field examination of your property by our engineers and geologists is warranted.

In regard to the estimate of costs submitted with your application, if a field examination is undertaken and a project is recommended, the Field Team at that time will also submit their estimate for the cost of such work.

Attached are 6 "Owner's Consent to Lien" forms, a copy of "DMEA Order - 1 Amended," and a booklet explaining this Agency's program, also, a copy of Application Form MF-103. Please note, in form MF-103, under 2. "General" - that all accompanying papers must be submitted in quadruplicate (four copies). It will not be necessary to submit new MF-103 forms with the additional information requested.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy:am
2-14-55
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
DMEA Field Team, Region III(2)

2/15/55 gla

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

DEPARTMENT OF THE INTERIOR
Grants Branch Administration
RECEIVED
FEB 14 1955

224 New Customhouse
Denver 2, Colorado

February 10, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), The Richland Corporation, Jim, Mike, Moon, and Star claim group, Grand County, Utah

DMEA-3665

Enclosed are three copies of a claim map submitted by The Richland Corporation which are to be attached to copies of applications transmitted to your office on February 3, 1955.

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

Enclosures

Copies of map to Geol. Survey + Bur. Mines Commodity Members 2/17/55 gla

224 New Customhouse
Denver 2, Colorado

February 10, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

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W. M. TRAVER

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

Enclosures

FEB 14 1955

224 New Customhouse
Denver 2, Colorado

February 10, 1955

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To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

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W. M. TRAVER

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

Enclosures

cc: Subject
Chron
Harshman
Administrator

Telephones
LAfayette 3-8352
LAfayette 3-8353

DMEA
FEB 7 1955

THE RICHLAND CORPORATION

225 WASHINGTON STREET
BOSTON 8, MASS.

EXECUTIVE OFFICES

Feb. 4th, 1955

Docket # ?

U. S. Dept. of Interior,
D M E A
224 New Custom House,
Denver, 2, Colorado.

attention W. M. Traver & E. N. Harshman

Gentlemen,-

re our application for a loan made and sent to you January 28th, 1955 enclosed please find a map of the area showing the location of these claims with relation to the surrounding area.

Since evrything is in quadruplicate, I am also sending you this in quadruplicate as well.

yours very truly,

The Richland Corporation.

Harry E. Franks. Treas.

Harry E. Franks.

2/10/55 glm

IN REPLY REFER TO:

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

February 10, 1955

Re: DMEA-3665
The Richland Corp.
Moon & Star Claims
Grand County, Utah
$80,450 - Uranium

Memorandum

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

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

Subject: Review of application

The subject application is "completely" incomplete! I doubt that you can get much more information but I suppose you should try.

Incidentally, "TEM-616, Photogeologic map of the Moab-10 quadrangle", has been released by the Survey. This map covers most of the land sections mentioned by the applicant.

According to Moab-10, most of these land sections are underlain by the Entrada, Summerville, or lower part of the Salt Wash member of the Morrison formation. Therefore, I doubt that the applicant has much, if any, of the "ore bearing" sandstone on or underlying his claims.

Peter H Kilgoard
FOR: R. D. Trace

IN REPLY REFER TO:

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

February 10, 1955

Re: DMEA-3065
The Richland Corp.
Moon & Star Claims
Grand County, Utah
$80,450 - Uranium

Memorandum

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

Subject: Review of application

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R. D. Trace

RDTrace:hlm
G-2/10/55

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

IN REPLY REFER TO:

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

February 10, 1955

Re: DMEA-3665
The Richland Corp.
Moon & Star Claims
Grand County, Utah
$80,450 - Uranium

Memorandum

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

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R. B. Trace

RBTrace:hlm
G-2/10/55

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

IN REPLY REFER TO:

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

February 10, 1955

Re: DMEA-3665
The Richland Corp.
Moon & Star Claims
Grand County, Utah
$80,450 - Uranium

Memorandum:

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

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

Subject: Review of application

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Incidentally, "MM-616, Photogeologic map of the Moab-10 quadrangle", has been released by the Survey. This map covers most of the land sections mentioned by the applicant.

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R. D. Trace

RDTrace:hlm
G-2/10/55

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

February 7, 1955
Subject: DMEA 3665
Re: Exploration Assistance
Jim, Mike, Moon, and
Star claim group

The Richland Corporation
225 Washington Street
Boston 8, Massachusetts

Gentlemen:

The receipt of your application dated January 28, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3665 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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1955

224 New Customhouse
Denver 2, Colorado

February 3, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), The Richland Corporation, Jim, Mike, Moon, and Star claim group, Grand County, Utah

Enclosed are all copies of the subject application for exploration assistance to explore the property for uranium at an estimated cost of $80,450.00.

The proposals of the applicant are purely prospecting in nature as no target areas have been established. In fact the letter of January 18, 1955 from Arthur Jaffe, Consulting Geologist, indicates that no evidence of uranium mineralization exists on the property. This letter was submitted as part of the application.

A copy of the purchase agreement between the Richland Corporation (Richland Uranium Corporation as per letterhead on transmittal letter) was not furnished with the application, and no definite work proposals are outlined. A map showing the proposed work in relation to the companies boundary lines is required as per question 5 (b) of Form MF-103 but was not furnished by the applicant.

NOTE

Mr. Harry E. Franks, President and Treasurer of the Richland Corporation, is also Treasurer of Trans-American Television Enterprises, Inc., the applicant company of DMEA Docket-3459 which was formally closed by our letter of January 24, 1955, because we were unable to obtain an acceptable application.

We anticipate the same trouble with this application as was experienced with DMEA Docket-3459, therefore we strongly recommend that

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

the applicant be required to submit a complete application before it is accepted.

PLEASE REVIEW ALL CORRESPONDENCE DMEA DOCKET 3459 BEFORE ASSIGNING DOCKET NUMBER..

W. M. Traver

Enclosures

W. M. Traver

RDB:pw

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 24 1955

224 New Customhouse
Denver 2, Colorado

February 3, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), The Richland Corporation, Jim, Mike, Moon, and Star claim group, Grand County, Utah

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The proposals of the applicant are purely prospecting in nature as no target areas have been established. In fact the letter of January 18, 1955 from Arthur Jaffe, Consulting Geologist, indicates that no evidence of uranium mineralization exists on the property. This letter was submitted as part of the application.

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NOTE

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We anticipate the same trouble with this application as was experienced with DMEA Docket-3459, therefore we strongly recommend that

the applicant be required to submit a complete application before it is accepted.

PLEASE REVIEW ALL CORRESPONDENCE EMRA DOCKET 3459 BEFORE ASSIGNING DOCKET NUMBER..

W. M. TRAVER

Enclosures

W. M. Traver

RDB:pw

Telephone
Lafayette 3-2552
Cable Address LAFAYE

RICHLAND URANIUM CORPORATION
225 WASHINGTON STREET
BOSTON 8, MASS.

EXECUTIVE OFFICES

DEPARTMENT OF THE INTERIOR
Bureau of Mines
RECEIVED
FEB 4 1955

January 28th, 1955

Date Rec'd. 1
JAN 31 1955
BUREAU OF MINES
Denver, Colorado

U. M. Traver
E. N. Harshman,
U. S. Dept of Interior
DMEA
224 New Custom House
Denver, 2, Colorado.

Gentlemen,-

Enclosed please find our application for a loan under your DMEA Order -1 amended.

To start with, our Geologist, Mr. Arthur Jaffe resides right in Moab, which I understand is not very far from our claims on which we are herewith making the application,-- any investigations or investigators that you intend to have may contact him right there in Moab,-- his telephone number is 2801 and he will furnish you with any additional information if you so wish or he will take your men right to the claims,-- which will make it much easier for them.

We are purchasing these claims from the men employed in and now operate the San Juan engineering Co., they staked the claims, surveyed them,-- mapped them, etc. etc. I have every reason to believe that the work that they did was excellent work,--

5b We intend to first bulldoze the ground so that the drill rigs can comfortably enter that part of the property that we will want to drill out. The Geologist under whom this work will be conducted,-- intends to drill out the Morrison formations on the area,-- that match the areas in the adjoining property where they are now stripping in these same like formations.

5d I have had no operating experience, but I intend to hire capable supervision for the carrying out of this work,-- such as our present geologist and mineralogist. Our vice president, Harry Butters, has a graduate mining engineer of MIT.

6 All these estimates will be furnished on an accompanying sheet.

7. Yes, we are prepared to furnish our share of the cost of the proposed project in accordance with the regulations on Government participation. and in Cash.

Yours very truly,

The Richland Corporation.

Harry E. Franks, Treas.

Harry E. Franks

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1085.2.

Minerals Administration
RECEIVED
FEB 3 4-1955

Date Rec'd,

JAN 31 1955
BUREAU OF MINES
Denver, Colorado

Not to be filled in by applicant

Docket No. 3665
Metal or Mineral Uranium, Vanadium
Date Received 2-4-55
Estimated Cost $80,450
Participation (Government %)

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

INSTRUCTIONS

225 Washington St., Boston, 8, Mass..

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: The Richland Corporation, a Delaware corporation, 1954
Harry E. Franks Pres. & Treas. 60 Beacon St., Chestnut Hill, 67, Mass..
Harry Butters, Vice Pres. 116 Englewood Ave., VBoston, Mass..
C. H. DEVille, Sec'y, 111 Meetinghouse Rd., North Eastham, Mass.. Cape Cod.

(*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 sixty four unpatented lode mining claims identified as the Jim 1 & 2 ; Mike 1; Moon 0 through 30 inclusive, and Star 0 through 29 inclusive. all located in Sections 13 & 24, range 20 East, Township 24 South, and sections 7, 8, 17 18 and 19, range 21 East, Township 24 South, Grand County, Utah

(*b*) State any mine name by which the property is known. only as described above.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise The option agreement for purchase has been exercised, Transfer of title happens as soon as Lawyer is through .

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Nos. 238824 through 238854 in book 39, pages 90 through 105 and also numbers 234655 through 234669 and236262 through 235279 book34 & 36; pages 489-487 in 34 & 211-219 in 36

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. NONE

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. NONE

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

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

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

see the Geology report

16—66551-1

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium and Vanadium plus any other metals present in the ore.

(*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 24 days and be completed within 6 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. see accompanying letter.

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)?

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

[V] 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 January 28th, 1955

Richland Uranium Corporation
(Applicant)

By Harry E. Franks Treas.
Harry E. Franks

address 225 Washington Street,
Boston, 8, Mass.

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

The Richland Uranium Corporation Jan 5th, 1955

#6 Estimate of Costs.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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a. Independent Cotracts

10,000 feet of plug drilling	@ 1.75 per foot	17,500.	
3,000 feet of core drilling	@ 3.00 / foot	9,000.	
120 hours of bulldozing(3 wks.)	@ 15./ hr.	1,800.	
			28,300.

b. Labor, Supervision, consultants.

10 weeks Geologist consultant	@ 300./week	3,000.	
10 weeks laborers & helpers (3) @ 60. each per week		1,800.	
			4,800.

c. Operating materials and supplies.

Diesel Generating Plant (new or used) for electricity	15 KW	5,000.
Water Tank	1,000 gallons	750.
Fuel Tank	1,000 gallons	750.
4 shovels, 4 picks, 4 wheel barrows, 10 water buckets, 3 first aid kits		100.
		6,600.

d. Operating Equipment

2 D-6 Caterpillar Bull Dozers -factory rebuilt @ $ 5,000 each delivered		10,000.
1 Caterpillar Loader - factory rebuilt		7,500.
1 water Truck that will bring both water and fuel		5,000.
1 Pick up truck New Chevrolet		3,500.
		21,000.

e. NONE

f. New Buildings, improvements, installations.

1 Trailer house or living quarters comparable	7,500.	
1 shack for equipment, tools	1,000.	
		8,500.

g. Miscellaneous .

Mechanic part time for maitaining equipment 6 mos.	2,000.	
Parts replacing during this period	500.	
Analytical work	500.	
Accounting 1 book-keeper and accountant (contract	2,000.	
Workmen's compensation	350.	
Employer's liability Insurance	400.	
Pay roll taxes	500.	
		6,250.

h. Contingencies.

Estimate of necessary allowances for contingencies not included in the costs stated above. 5,000.

Total 80,450.

- COPY-

A RTHUR JAFFE
Consultant Geologist and Mineralogist
Phone 2801
Moab, Utah

January 18th, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 4 1955

Harry E. Franks,
225 Washington St.,
Boston, 8, Mass..

Dear Mr. Franks,

On January 14, 1955, on your instructions, I visited the 64 adjoining claims unpatented lode mining claims identified as the JIM 1 & 2 Mike 1, Moon 0 through 30 inclusive, and Star 0 through 29 inclusive. These claims are located in Section 13 & 24, range 20 East, Tpwnship 24 South and Sections 7, 8, 17, 18 , and 19 Range 21 East, Township 24 South, Grand County, Utah.

Approximately 3/8 of these claims have the Salt -wash member of the Morrison foundation exposed on them. The rest of the area the Summerville, Entada, and Navajo formation are exposed; these are all older than the Saltwash. Up until now, the saltwash has been the major Uranium producer in the Colorado Plateau area. No Uranium has been found in the Summerville, or Navajo, but some ore has been found in the Entada. Furthermore this area could later be drilled for the deeper lying Chinle and Shinarump formations. The Shinarump is now being mined in many areas and large tonnages are expected to be found in this formation.

Entrada

Although no Uranium was seen on the property ore has been shipped from the area. On the adjoining property a gr at deal of activity is going on and ore has been discovered. The same ore bearing strata extends through the claims I examined. Very little road construction would be necessary to develop these claims. On the Morrison, work development costs would be relatively low, and if ore is mined, it could be done by stripping. Although any mining program is speculative, the value of an ore discovery warrants taking long odds. The proce of these claims make these properties an excellent investment. If at a later date, it is decided that you do not want to mine these claims, they could be sold at a profit.

It must be remembered that although the potential ore horizons do exist on these claims, the mere fact that they do exist does not give assurance that commercial ore will be found therein. This can only be determined and the extent of an ore body ascertained by performing actual exploration work.

I would recommend that your option on these properties be exercised.

very truly yours,

Arthur Jaffe (signature)

ARTHUR JAFFE

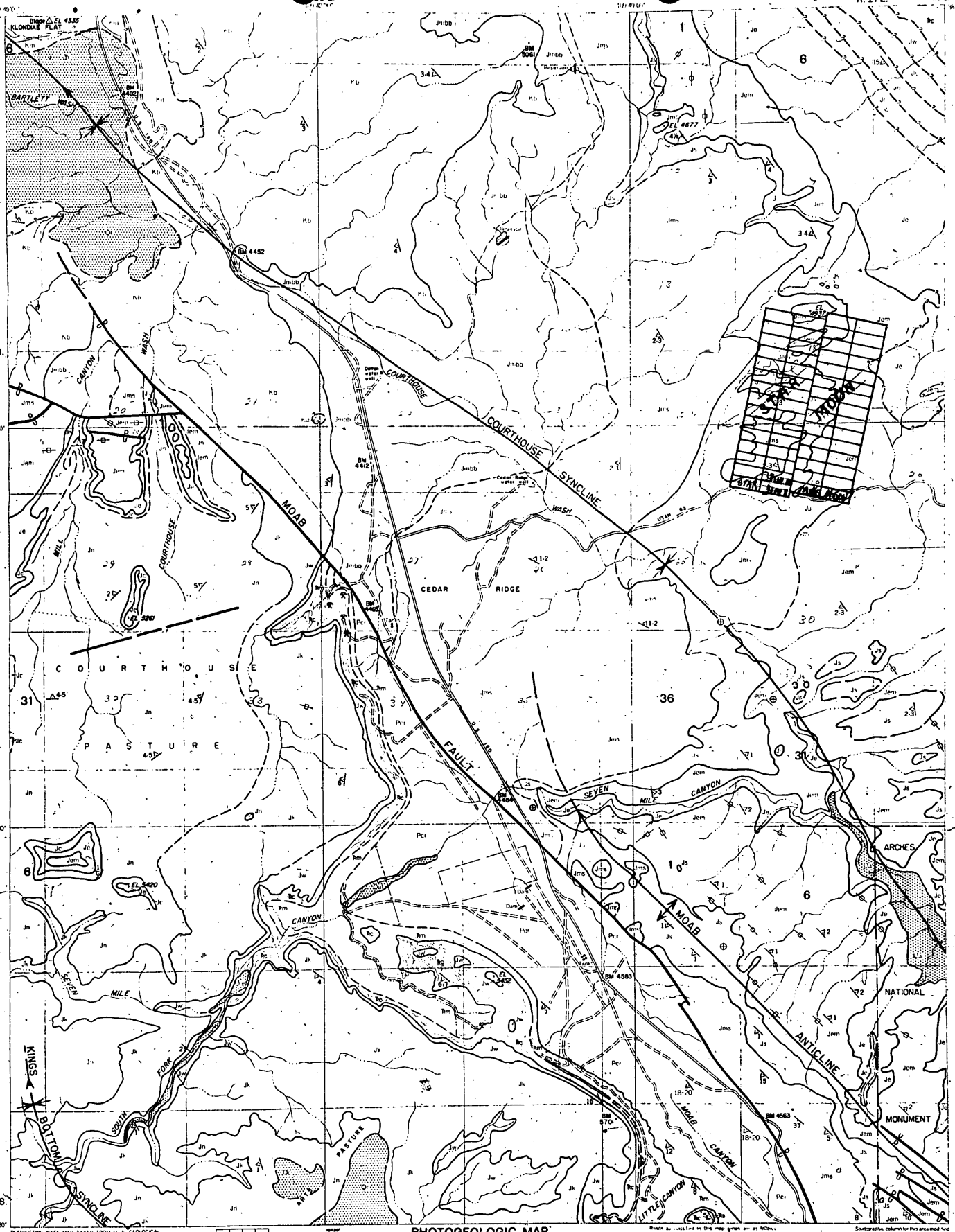
Consultant Geologist.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 616



EXPLANATION

Symbol	Formation	Period
Qal; Qc	Alluvium, Qal; covering deposits, undifferentiated, Qc	QUATERNARY
Km	Mancos shale (Upper)	CRETACEOUS
Kd	Dakota sandstone (?) (Lower and Upper)	CRETACEOUS
Kb	Burro Canyon formation (Lower)	CRETACEOUS
Jmbb; Jms	Morrison formation: Brushy Basin shale member, Jmbb; Salt Wash sandstone member, Jms (Upper)	JURASSIC
Js	Summerville formation (Upper)	JURASSIC
Jem; Je	Entrada sandstone: Moab tongue, Jem (Middle Upper)	JURASSIC
Jc	Carmel formation (Middle Upper)	JURASSIC
Jn	Navajo sandstone	JURASSIC (?)
Jk	Kayenta formation	JURASSIC (?)
Jw	Wingate sandstone	JURASSIC (?)
TRc	Chinle formation (Upper)	TRIASSIC
TRs	Shinarump conglomerate	TRIASSIC
TRm	Moenkopi formation (Lower)	TRIASSIC
Pcr	Cutler and Rico formations, undifferentiated	PERMIAN

Contact
(Can be accurately located within 30 feet horizontally)

Contact
(Can be approximately located within 30 to 200 feet horizontally)

Contact
(Cannot be located accurately; probable error greater than 200 feet)

Probable or doubtful contact

Fault
(U, upthrown side; D, downthrown side; dashed where approximately located)

Anticline
Showing trace of axial plane and direction of plunge
(Dashed where approximately located)

Syncline
Showing trace of axial plane and direction of plunge
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Strike and dip of beds
(Based on field measurement)

Strike and dip of beds
(Based on photo-interpretation)

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Strike of approximately vertical joints
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Uninterpretable linear feature on photograph
(May be geologically significant)

Mine or prospect — Spring

Primary road — Secondary road

Trail — Fence

Surveyed line

National Monument boundary

Windmill — BM 4563 Bench mark

Note: Field data indicate that the mines in this map area are in lenses of the Shinarump conglomerate, which cannot be differentiated on aerial photographs.

PLANIMETRIC BASE MAP TAKEN FROM U. S. GEOLOGICAL SURVEY TOPOGRAPHIC MAP MOAB, N. W. QUADRANGLE

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

MOAB QUADRANGLE

TRUE NORTH — MAGNETIC NORTH

PHOTOGEOLOGIC MAP
MOAB-10
GRAND COUNTY, UTAH

PHOTOGEOLOGY BY C. E. BATES
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH
SCALE 1:24,000
APRIL 1953

Roads are included on this map areas are as follows: Primary roads are improved and U-shaped, traversable in fair weather; secondary roads are U-shaped, traversable probably by four-wheel-drive vehicles; trails are not traversable by four-wheel-drive vehicles and not usually shown. Where other information is lacking, roads are classified by their appearance on aerial photographs.

Stratigraphic column for this area modified from U. S. Geol. Survey Bull. 908, 1940.

U 246 NW

This map is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards and nomenclature.

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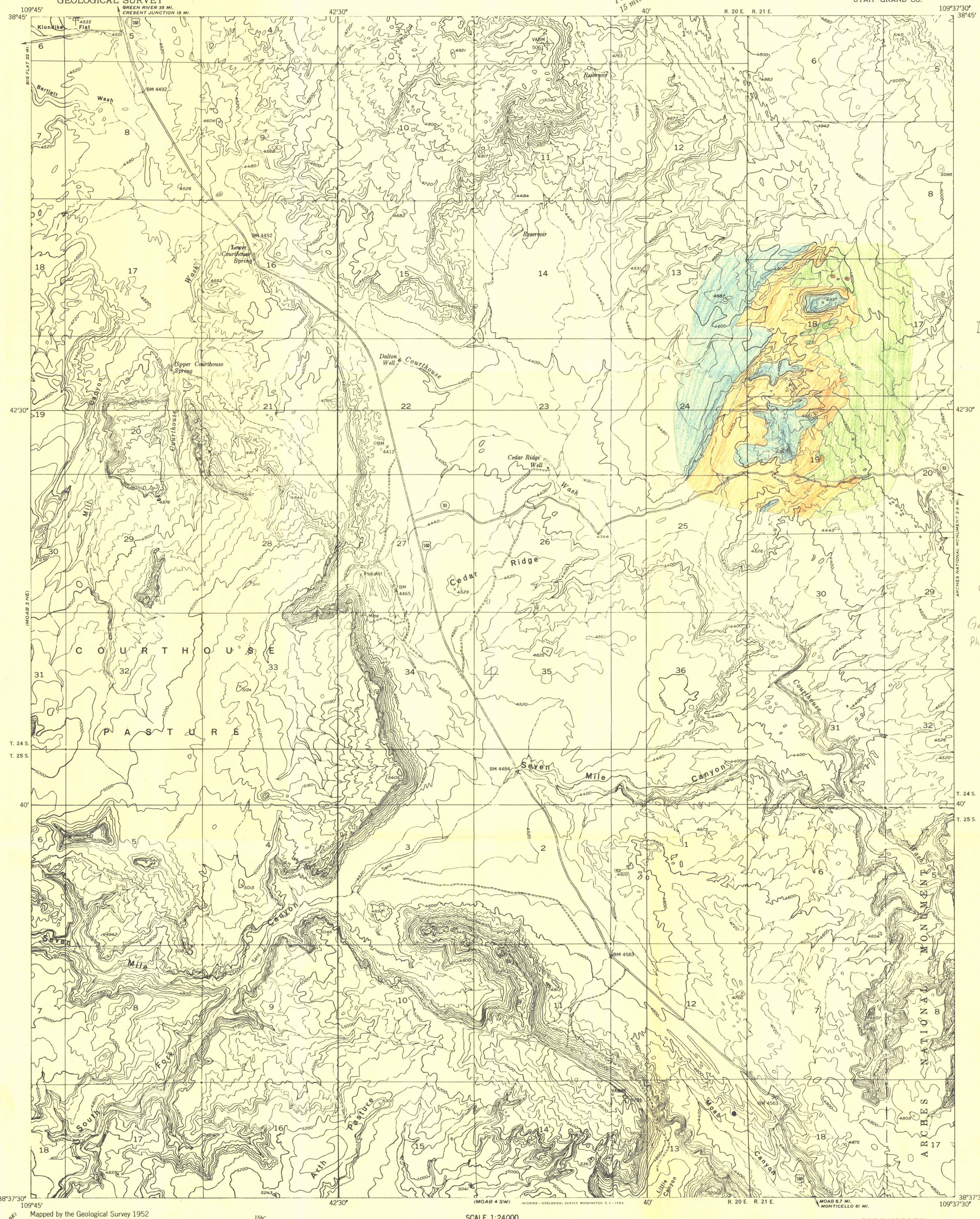
MOAB BLUEPRINT CO.
MOAB, UTAH

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Preliminary edition
Pending completion of 1:62,500 scale
15 minute maps covering this area

MOAB 4 NW QUADRANGLE
UTAH–GRAND CO.



Salt Wash

Summerville

Entrada (including Moab tongue)

Geology from Photogeologic map Moab-10

R.D. Trace 3/21/55

DMEA 3665

Mapped by the Geological Survey 1952

Topography by multiplex methods from aerial photographs taken 1951

TRUE NORTH
MAGNETIC NORTH
15½°
APPROXIMATE MEAN DECLINATION, 1952

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Improved ——— Unimproved - - - - -

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1954

MOAB 4 NW, UTAH
N3837.5-W10937.5/7.5

U. S. DEPARTMENT OF THE INTERIOR
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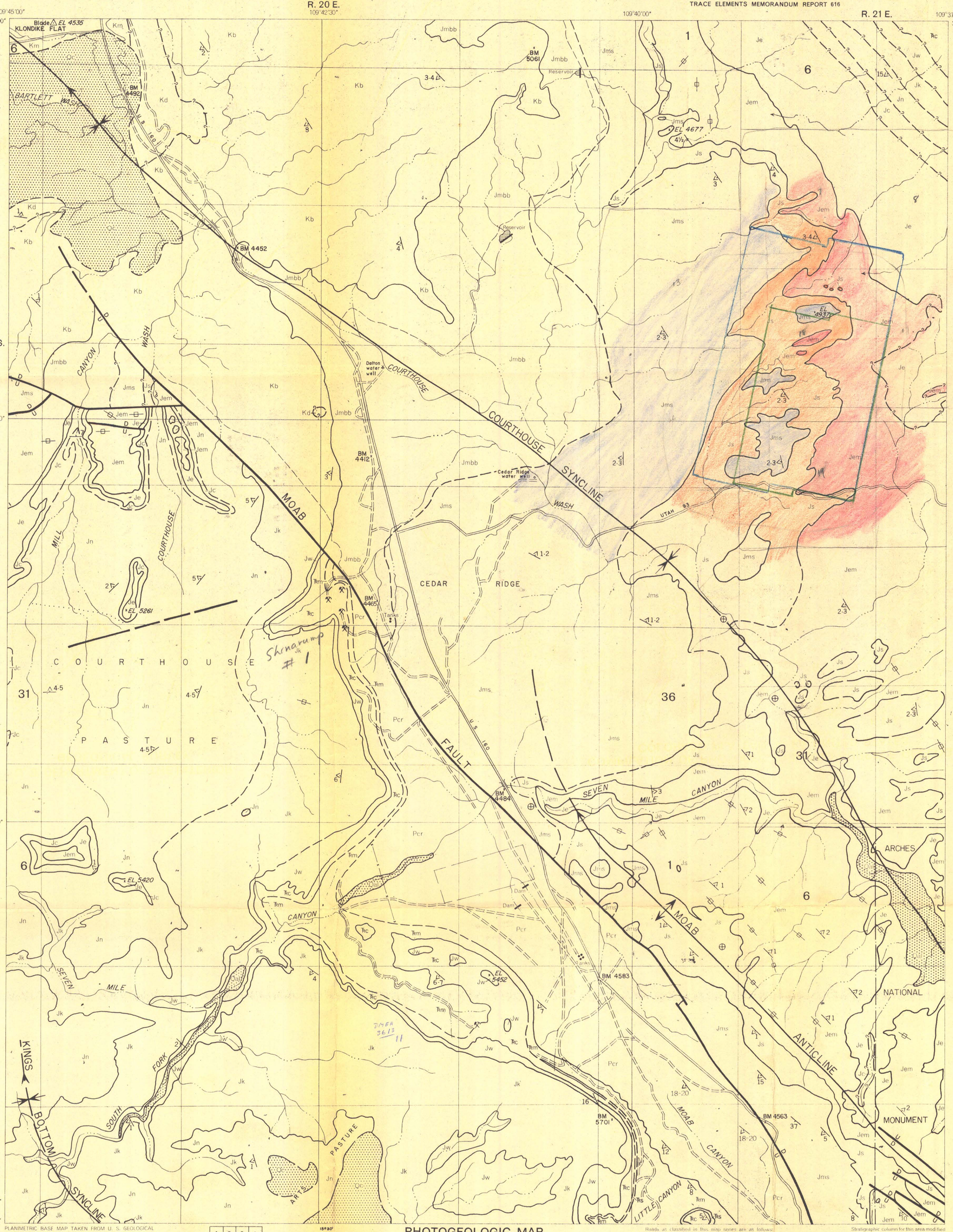

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PLANIMETRIC BASE MAP TAKEN FROM U. S. GEOLOGICAL SURVEY TOPOGRAPHIC MAP MOAB 4, N. W., (UNPUBLISHED)

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MOAB QUADRANGLE

15°30'
TRUE NORTH
MAGNETIC NORTH

PHOTOGEOLOGIC MAP
MOAB-10
GRAND COUNTY, UTAH

PHOTOGEOLOGY BY C. E. BATES
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH
SCALE 1:24,000
0 — 1 MILE
APRIL 1953

Roads as classified in this map series are as follows: Primary roads are maintained and graded, traversable by two-wheel-drive vehicles; secondary roads are traversable possibly by two-wheel-drive vehicles; trails are not traversable by four-wheel-drive vehicles except locally. When other information is lacking, roads are classified by their appearance on aerial photographs.

Stratigraphic column for this area modified from U. S. Geol. Survey Bull. 908, 1940.