Surname 700

Murphy
Ellis
Nelson
Guhon
Selfridge

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

Messrs. M. C. Ginther, H. C. Warren SEP 22 1955
and W. L. Ginther
1714 Nels Esperson Building
Houston 2, Texas

Re: Docket No. DMEA-3766 (Uranium)
Money Pot Project
Garfield County, Utah

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington relating to the above-named project claims 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 assistance is denied without prejudice to your property. If future work on your property reveals evidence which could materially alter this opinion, be assured we will 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,

Frank E. Johnson

ACTING Administrator

FMMurphy:am
9-19-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5222
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy DMEA Field Team, Region III(2)

R.C.S.

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

September 19, 1955

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-3766

Commodity: Uranium

Applicant: Owners - N. C. Ginther, H. C. Warren, and W. L. Ginther
1714 Nels Esperson Building
Houston 2, Texas

Property: Property referred to as "Honey Pot," 6 unpatented claims, Optimist Nos. 4,5,6,14,15, and 16, in unsurveyed T. 36S., R. 11E., S.L.B&M, Garfield County, Utah

Date of Application: April 6, 1955

Referred to Field Team: April 28, 1955

Field Team Report Received in Washington: August 26, 1955

Amount of Application: $23,819.40

Work Proposed: 300 feet of drift
300 feet of crosscuts, on alternate sides of drift at 50-foot intervals.

Estimated Cost of Project:

Labor, supervision consultants	$22.23/ft.
Operating equipment (rental)	4.27 "
Operating material and supplies	5.57 "
Miscellaneous	3.02
Total (does not check with application)	$35.09

Application states:

600 feet @ $36.09/ft.	$21,654.00
Contingencies @ 10%	2,165.40
	$23,819.40

Field Team Report (excerpts):

The Optimist group of claims is located on a rim of Salt Wash sandstone that registers about three times above background, in an area that resembles a stream channel.

The claims were held until December 1954, by Lehigh Valley Coal Corporation under lease from the Honey Pot Uranium Corporation.

During July 1 to September 30, 1954, Honey Pot drove six short adits into cliff faces in the lower end of Thompson Creek and in Hansen Creek directly above its confluence with Thompson Canyon. Although areas of high count were encountered, no ore was found.

From October 25 to 30, 1954, the Lehigh Corporation had the Uranium Aerial Explorations Company make an aerial radiometric survey of the property. 21 anomalies were recorded, however, the Lehigh Corporation dropped their option on the claims.

In the period December, 1954, to February, 1955, the Applicants verified the anomalies by ground examination. The more favorable areas were then further explored by short drifts and blasting cliff faces.

The best showing, on Optomist No. 15 claim was opened up by a 30-foot adit. The adit was ~~a~~ driven along a slightly mineralized seam, which pinched out and no mineralization can now be observed in the face. The work proposed by the Applicant is the extension of this drift an additional 300 feet in a southeast direction.

The subject claims have no production and no ore bodies have been developed. About 3 miles northeast of the property the Lucky Strike mine has produced 216 tons of ore over a period of several years. The Lone Eagle has produced 184 tons, and other mines nearby have produced a total of 45 tons. The above production has been from small, individual ore bodies of from 3 to 5 tons, and the ore has been produced by selective mining.

The Field Team recommends the application be denied because the ore bodies in the area are small. Also because very little geologic control for the localization of ore bodies could be found on the Optimist group of claims, such as channels, scours, thicksands, or faults, and therefore, no geologic guide could be determined for exploration by drifting.

Commodity Committee Members' Comments:

U. S. Geological Survey (excerpts)- N. E. Nelson - 9-1-55

... "The examiners found little evidence of the uranium occurrences mentioned in the application or a structure which might be favorable for an occurrence.

"The recommendation of denial is justified and with it I concur."

U. S. Bureau of Mines (excerpts)- J. E. Crawford - 9-15-55

... "The report of examination from the DMEA Field Team indicates the possibility of finding uranium in significant quantities in this area is considered poor because no geologic guide could be determined on subject claims that would indicate a favorable geologic control for localization of ore bodies."

Joseph O. Hosted, A.E.C. and J. E. Crawford concur in the recommendation of the Field Team that the application be denied.

Rare and Miscellaneous Metals Division - F. M. Murphy - 8-29-55

Because the known ore bodies within an area of three miles of the subject property are small (3 to 5 tons) and are erratically distributed, there is little possibility of making a significant discovery by the proposed drifting and crosscutting, therefore, this Division concurs in the Field Team's recommendation of Denial of the application DMEA-3766

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

8/26/55 gla

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

August 23, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, Docket DMEA-3766 (Uranium), Ginther, Warren and Ginther, Garfield County, Utah

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

The field examiners believe there is little chance of finding a significant amount of uranium on this property and they recommend that the application be denied.

We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

E. N. Harshman

Enclosures

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

TRANSMITTED
AUG 23 1955.

August 18, 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3766 (Uranium), Ginther, Warren and Ginther, Honey Pot project, Garfield County, Utah

Enclosed are the original and 10 copies of an engineering report pertaining to examination of the Honey Pot project for DMEA loan appraisal. Also included are copies of a separate section, Summary, Conclusions and Recommendations, and a copy of the brochure.

The property was examined by Howard Albee of the Survey and W. E. Young of this office. The examining personnel noted that the Salt Wash member of the Morrison formation outcrops on the property and has been extensively prospected. Known mineralization occurs in the Salt Wash and is related to a roll in the sandstone bedding. No production has been recorded from the property. The examiners believe that the proposed work, consisting of drifting and crosscutting, may disclose small and erratically distributed uranium occurrences, but no deposits of commercial significance. It is therefore recommended that the request for Government assistance be denied. I concur in this recommendation.

The Survey member of the examining team discussed the docket with a representative of the Atomic Energy Commission.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

DMEA
Date Rec'd
AUG 22 1955
BUREAU OF MINES
Denver, Colorado

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By Howard Albee and W. E. Young

Ginther, Warren and Ginther have applied for DMEA assistance in exploration of the Optimist group of uranium claims in Garfield County, Utah. The property, 60 miles south of Hanksville, Utah, was examined by DMEA personnel June 7, 1955. The applicant has proposed an exploratory project consisting of 600 feet of drifting and crosscutting at a total estimated cost of $23,819.40.

Rocks in the area are sandstones, shales, and conglomerates of Jurassic age. The Salt Wash sandstone member of the Morrison formation outcrops on the Optimist claims and has been extensively prospected. Known mineralization occurs in this member and is related to a roll in the sandstone bedding. Uranium occurrences uncovered on the property are too small and erratically distributed to be considered minable. No shipments have been made from the property to date.

The examining engineer and geologist do not believe that exploratory work proposed by the applicant will result in discovery of significant uranium ore bodies. Denial of the request for Government assistance is therefore recommended.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
Date Rec'd.
JUL 20 1955
BUREAU OF MINES
Denver, Colo.

Defense Minerals Exploration Administration

July 19, 1955

TRANSMITTED
AUG 23 1955

Memorandum

To: DMEA Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3766 (uranium), Ginther, Warren, and Ginther, Optimist group of claims, Garfield County, Utah

Enclosed are 10 copies of a report by Howard F. Albee, U. S. Geological Survey, in which denial of the subject application is recommended. This recommendation appears justified by the fact that there is little known geologic control for localization of ore on the claims and the fact that ore bodies, if present, would be small.

I assume that the property was or will be examined by a representative of the U. S. Bureau of Mines. No mention of such an examination is made in the geologic report.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

MINERAL DEPOSITS
DMEA
RECEIVED
JUL 18 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
P. O. BOX 360
GRAND JUNCTION, COLORADO

July 12, 1955

DMEA
Date Rec'd.
JUL 20 1955
BUREAU OF MINES
Denver, Colorado
TRANSMITTED
AUG 23 1955

Memorandum

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

From: J. William Hasler

Subject: DMEA Docket 3766, (Uranium) Ginther, Warren and Ginther, Optimist group of claims, Garfield County, Utah

Enclosed are 12 copies of a geologic report and the accompanying maps on the Ginther, Warren and Ginther, Optimist group of claims, Garfield County, Utah.

The property was examined on June 7, 1955, by Howard F. Albee of the U. S. Geological Survey, and H. C. Warren of the applicant company. The area is underlain by sandstone, shale, siltstone and conglomerate of Jurassic age. The principal ore-bearing formation in the vicinity of the Optimist group of claims is the Salt Wash member of the Morrison formation. The applicant has driven an adit for a distance of about 30 feet along a mineralized seam in the Morrison formation. The seam has pinched out and no mineralization was observed at the face of the adit. The exploratory drift was driven along mineralized sandstone partings that contain abundant carbonaceous films. Production from the area, in general, has been highly selective and production has come from small, individual ore bodies of from 3 to 5 tons. There were only a few places on the Optimist group of claims where radioactivity was as much as three times the background count. There is very little geologic control for the localization of ore bodies evident on the applicant's property and the chance of finding uranium ore in any significant quantity is not good.

It is, therefore, recommended that DMEA assistance to explore the Optimist group of claims be denied. I concur with the conclusions and recommendations resulting from the field examination of the subject property.

We have conferred with the Atomic Energy Commission regarding this application.

J. William Hasler
J. William Hasler
Geologist

JWH/mlr
Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3766, Ginther, Warren and Ginther, Optimist group of claims
Garfield County, Utah

Uranium

Geologic Report

by

Howard F. Albee
U. S. Geological Survey

July 14, 1955

INTRODUCTION

N. C. Ginther, H. C. Warren, and W. L. Ginther, lessees of the Optimist group of claims known as the Honey Pot mine, have applied (DMEA No. 3766) to the Defense Minerals Exploration Administration for assistance in exploration for uranium on a portion of the Optimist group of claims. These claims are near the confluence of Thompson and Hansen canyons in the Henry Mountains mining district, Garfield County, Utah, in unsurveyed land (fig.1). The Optimist group of claims are about 120 miles by road south of Green River, Utah, the nearest source of major supplies.

The applicant company proposes to explore the claims with 600 feet of five by seven feet drift underground workings. 300 feet of drift is to be driven southerly from the outcrop and the remaining footage as right angle cross-cuts on alternate sides of the main drift at fifty feet intervals. The total cost of the project is estimated at $23,819.40.

The claims were examined June 7, 1955, by Howard F. Albee of the U. S. Geological Survey, accompanied by H. C. Warren of the applicant company.

GEOLOGY

The area containing the Optimist group of claims is underlain by sandstone shale, siltstone and conglomerate of rocks of Jurassic age. They are, in descending order, the Morrison formation and the Summerville formations.

The Morrison formation in the Henry Mountains district is divided into two members, the Brushy Basin shale member which is about 165 feet thick and consists of variegated shale, siltstone, mudstone, and sandstone, and the underlying Salt Wash member, which is the principal ore-bearing formation, is about 500 feet thick (unpublished stratigraphic section measured by L. C. Craig). The Salt Wash sandstone is a grayish yellow, fine-grained sandstone, composed of clean subangular quartz grains. The unit forms a series of thin ledges channeling into each other, and where separated, are separated by thin gray siltstone partings. Small lenses and stringers of chert granules are sparsely distributed throughout the sandstone. The rocks exposed at the Optimist group of claims strike about N. 65° E. and dip about 1° northwest.

ORE DEPOSITS

The Optimist group of claims are located on a rim of Salt Wash sandstone that registers about three times above background, in an area that resembles a stream channel. An adit was driven for 30 feet along a slightly mineralized seam, which pinched out and no mineralization can be observed at the face. The exploratory drift was driven in mineralized siltstone partings, that contained abundant carbonaceous films. Zones of radioactivity are shown on figure 2.

The subject group of claims have had no production and no ore bodies have been developed. About 3 miles northeast of the area of proposed exploration the Lucky Strike mine has had a total production of 216 tons over a period of several years. The Lone Eagle mine has produced 184 tons

and other mines nearby have produced a total of 45 tons. The above production has been from small, individual ore bodies of from 3 to 5 tons, and the ore has been produced by selective mining.

PROPOSED EXPLORATION

The applicant proposes to explore the Optimist group of claims for uranium ore by 600 feet of drift. A main drift is to extend southerly from the present adit for 300 feet. At 50-foot intervals and on opposite sides of the main drift, are to be 50-foot cross-cuts. The estimated cost plus ten percent for contingencies is $39.70 per foot. The exploration program is estimated to cost $23,819.40.

CONCLUSIONS AND RECOMMENDATIONS

Zones of abnormal radioactivity seen on the Optimist Nos. 15 and 16 were probably representative of the amount of radioactivity on subject claims. The nearest production to the claims is about three miles to the northeast. This production is small and from small ore bodies of from three to five tons each. There is no geologic probability that ore bodies ranging from 3 to 5 tons is present on the subject claims. Very little geologic control for the localization of ore bodies could be found on the Optimist group of claims, such as channels, scours, thick sands, or faults; therefore, no geologic guide could be determined for exploration by drifting. The chance of finding uranium ore of any significance is not good. It is, therefore, recommended that DMEA assistance to explore the Optimist group be denied.

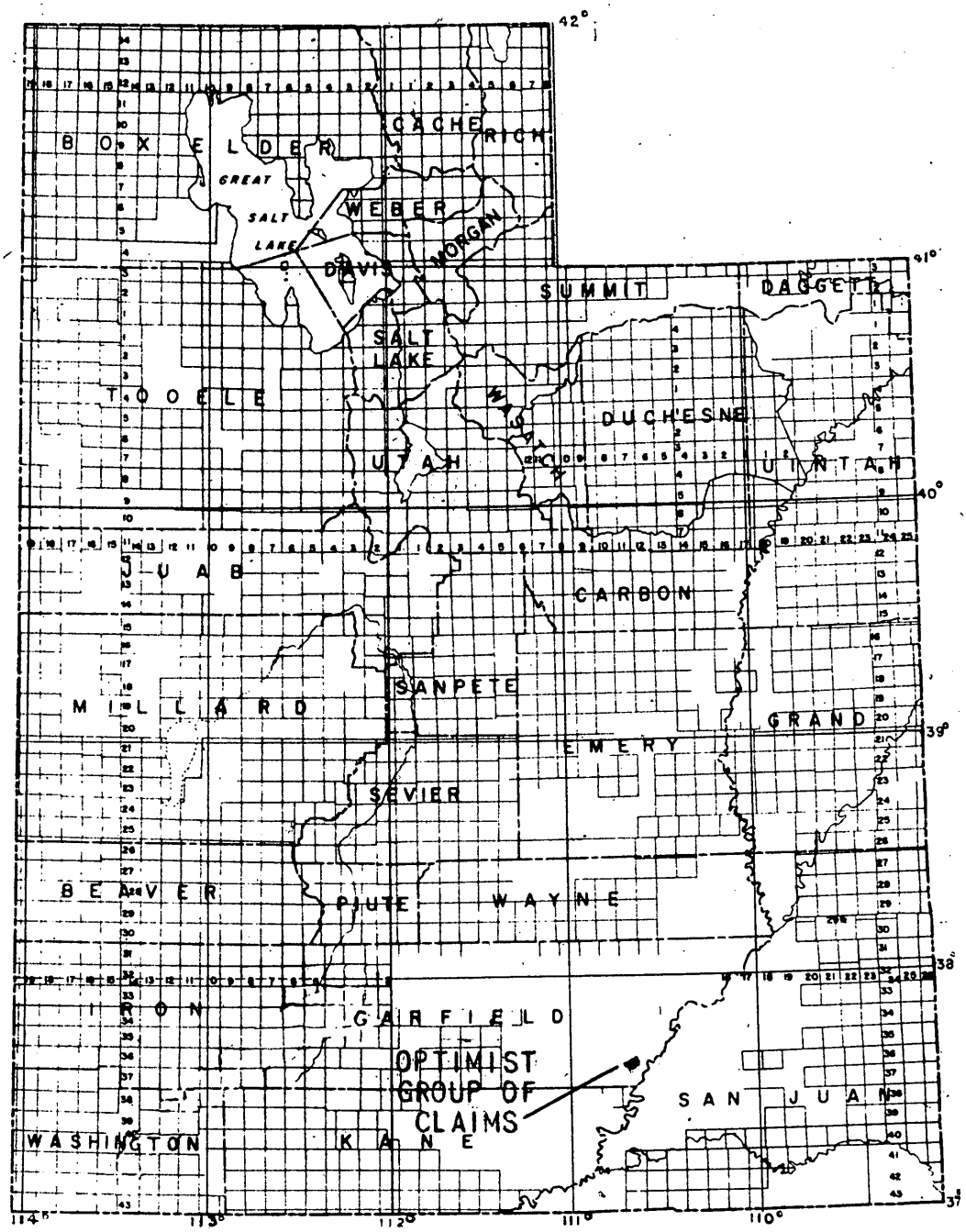
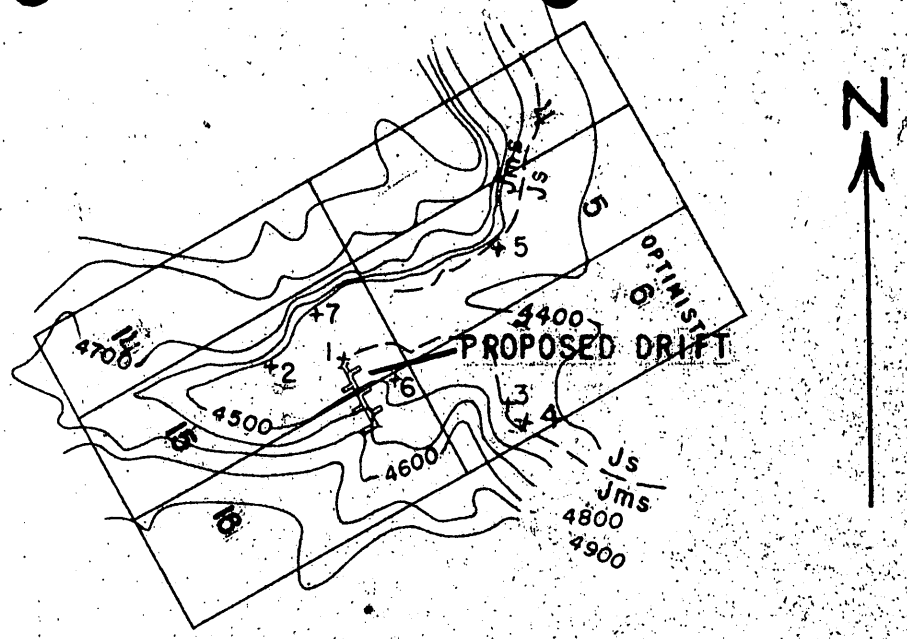


Figure 1. INDEX MAP OF UTAH SHOWING LOCATION OF OPTIMIST GROUP OF CLAIMS, GINTHER, WARREN, AND GINTHER, GARFIELD COUNTY, UTAH



EXPLANATION

CONTACT BETWEEN SUMMERVILLE FORMATION, Js AND SALT WASH MEMBER OF MORRISON FORMATION, Jms

+7 POINT REFERRED TO IN TEXT BY NUMBER

DRIFT WITH CROSSCUTS (PROPOSED)

Note: TOPOGRAPHY, GEOLOGY AND CLAIM BOUNDARIES FROM APPLICANT'S MAP

1000 0 2000 FEET

Figure 2. MAP OF PART OF T. 36 S., R. 11 E., S.L.M. (UNSURVEYED) SHOWING LOCATION OF PROPOSED DRIFT AND CROSSCUTS ON OPTIMIST 4, 5 6, 14, 15, AND 16, CLAIMS, GINTHER, WARREN AND GINTHER GARFIELD COUNTY, UTAH

GIVENS, WARREN AND GIVENS
HONEY POT PROJECT
SAWTELLE COUNTY, WEAK
DOBA-3766
Uranium

Engineering Report

By W. R. Young
Mining Engineer
Bureau of Mines

GINTHER, WARREN AND GINTHER
HONEY POT PROJECT
GARFIELD COUNTY, UTAH

CONTENTS

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Project proposals	4
Conclusions and recommendations	4

ILLUSTRATIONS

Fig. 1 Location map, Ginther, Warren and Ginther, Honey Pot project, Garfield County, Utah

Fig. 2 Plain map

SUMMARY

Gintner, Warren and Gintner have applied for a RMA loan to explore for uranium ores on the Optimist group of claims in Garfield County, Utah. The property is about 40 miles south of Escalante, Utah, and covers an outcrop of the Salt Wash member of the Morrison formation.

The applicant has driven a 30-foot drift at one location on a bedding roll which showed mineralization, and proposes to advance this drift an additional 300 feet and drive 50-foot crosscuts at 50-foot intervals from the drift. The estimated cost of this work is $23,819.40.

The possibility of finding uranium in significant quantity in this area is considered poor. It is recommended that the loan be denied.

INTRODUCTION

The Honey Pot claims of Gintner, Warren and Gintner were examined June 7, 1955, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. Examination was made at the request of the Regional Field Team to determine the advisability of granting a Government assistance loan. Mr. W. Roth and Mr. Gordon Reich conducted the examining personnel over the property.

The applicant proposes to explore the property by drifting and crosscutting at an estimated cost of $23,819.40.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property is located approximately 40 miles south of Hanksville, Utah, in unsurveyed T. 36 S., R. 11 E., S.L.B. and M. (fig. 1). The claims cover an outcropping escarpment of Salt Wash sandstone. Deep, steep-walled canyons intersect the escarpment exposing the full thickness of the Salt Wash formation. Variable thicknesses of the Brushy Basin member remain on the mesas between canyons.

The property is accessible over existing dirt roads from Hanksville, Utah, passing within 5 miles of the claims. The road into the area, now under construction, will be a good gravel-surfaced road when completed.

HISTORY AND PRODUCTION

The claims are held by right of location by the Cartel Uranium Co. and the Honey Pot Uranium Co. They were recorded in 1954 and 1955.

Ginther, Warren and Ginther have a lease on the claims involved. There has been no production from the property. There is no stockpiled ore.

This property with the surrounding area was held under lease by the Lehigh Valley Coal Corp. until December 1954.

OWNERSHIP AND HISTORY

The property involved consists of the following unpatented mining claims: Optimist Nos. 4, 5, 6, 14, 15 and 16 (fig. 2).

DESCRIPTION OF THE DEPOSITS

Rocks exposed in the area are sandstones, shales and conglomerates of Jurassic age. The outcropping rim of Salt Wash sandstone has been prospected extensively. The applicant has driven an adit 30 feet in length along a pell in this sandstone bed on one of the claims involved. A representative of the applicant stated that mineralization along the pell had been high in grade but spotty.

Radioactive highs about three times the normal background count have been located on the property and investigated. No ore bodies have been developed and no ore has been shipped from the property.

PROJECT PROPOSALS

The applicant proposes to further explore the property by drifting and crosscutting. The present drift which has been driven 30 feet is to be extended 300 feet in a southerly direction with 50-foot crosscuts on alternate sides of the drift at 50-foot intervals. This work is to be done at the base of the massive sandstone above the Summerville-Salt Wash contact. The applicant estimates the cost of this work at $39.70 per foot with a total cost of the project estimated at $23,819.40.

CONCLUSIONS AND RECOMMENDATIONS

Extensive prospecting of the Salt Wash member of the Morrison formation has been carried on in the area of the claims of the subject application. No ore bodies have been discovered and no ore has been

shipped as a result of this work. Production from the area in general has been small. Known ore bodies in the area, although high in grade, have been in the 3- to 5-ton class. The chances of finding uranium ores in significant quantities is considered poor. It is recommended that the application for loan be denied.

9/16/5-5-gla

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

RECEIVED
SEP 15 1955

September 15, 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 3766, Ginther, Warren and Ginther, Carfield County, Utah

I have reviewed the report of examination of the Field Team, Ginther, Warren and Ginter, DMEA Docket 3766; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicants, Ginther, Warren and Ginther, had applied for DMEA assistance to explore for uranium on the Optimist group of claims in Garfield County, Utah, by 600 feet of drifting and crosscutting at an estimated cost of $23,819.40.

The report of examination from the DMEA Field Team indicates the possibility of finding uranium in significant quantities in this area is considered poor because no geologic guide could be determined on subject claims that would indicate a favorable geologic control for the localization of ore bodies.

We concur in 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
SEP 15 1955

September 15, 1955

Memorandum

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

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

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The applicants, Ginther, Warren and Ginther, had applied for DMEA assistance to explore for uranium on the Optimist group of claims in Garfield County, Utah, by 600 feet of drifting and crosscutting at an estimated cost of $23,819.40.

The report of examination from the DMEA Field Team indicates the possibility of finding uranium in significant quantities in this area is considered poor because no geologic guide could be determined on subject claims that would indicate a favorable geologic control for the localization of ore bodies.

We concur in 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

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

RECEIVED
SEP 15 1955

September 15, 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 3766, Ginther, Warren and Ginther, Garfield County, Utah

I have reviewed the report of examination of the Field Team, Ginther, Warren and Ginter, DMEA Docket 3766; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicants, Ginther, Warren and Ginther, had applied for DMEA assistance to explore for uranium on the Optimist group of claims in Garfield County, Utah, by 500 feet of drifting and crosscutting at an estimated cost of $23,819.40.

The report of examination from the DMEA Field Team indicates the possibility of finding uranium in significant quantities in this area is considered poor because no geologic guide could be determined on subject claims that would indicate a favorable geologic control for the localization of ore bodies.

We concur in 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

9/6/55 gla

IN REPLY REFER TO:

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

RECEIVED
SEP - 2 1955

September 1, 1955

Re: DMEA 3766
Ginther, Warren & Ginther
Honey Pot (Optimist) Group
Garfield Co., Utah
$23,819.40 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The application concerned a prospect on the southeast flank of the Henry Mountains.

The examiners found little evidence of the uranium occurrences mentioned in the application or a structure which might be favorable for an occurrence.

The recommendation of denial is justified and with it I concur.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

September 1, 1955

Re: DMEA 3766
Ginther, Warren & Ginther
Henry Pet (Optimist) Group
Garfield Co., Utah
$23,819.40 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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The examiners found little evidence of the uranium occurrences mentioned in the application or a structure which might be favorable for an occurrence.

The recommendation of denial is justified and with it I concur.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-9/1/55
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
SEP - 7 1955

September 1, 1955

Re: DMEA 3756
Ginther, Warren & Ginther
Honey Pot (Optimist) Group
Garfield Co., Utah
$23,819.40 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The application concerned a prospect on the southeast flank of the Henry Mountains.

The examiners found little evidence of the uranium occurrences mentioned in the application or a structure which might be favorable for an occurrence.

The recommendation of denial is justified and with it I concur.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-9/1/55
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

September 1, 1955

Re: DMEA 3766
Ginther, Warren & Ginther
Henry Pot (Optimist) Group
Garfield Co., Utah
$23,819.40 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The application concerned a prospect on the southeast flank of the Henry Mountains.

The examiners found little evidence of the uranium occurrences mentioned in the application or a structure which might be favorable for an occurrence.

The recommendation of denial is justified and with it I concur.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-9/1/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Kested, 3210

8/31/55 gla

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

August 23, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, Docket DMEA-3766 (Uranium), Ginther, Warren and Ginther, Garfield County, Utah

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

The field examiners believe there is little chance of finding a significant amount of uranium on this property and they recommend that the application be denied.

We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
8-29-55
(date)

TRANSMITTED

AUG 2 3 1955

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

August 18, 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3796 (Uranium), Ginther, Warren and Ginther, Honey Pot project, Garfield County, Utah

Enclosed are the original and 10 copies of an engineering report pertaining to examination of the Honey Pot project for DMEA loan appraisal. Also included are copies of a separate section, Summary, Conclusions and Recommendations, and a copy of the brochure.

The property was examined by Howard Albee of the Survey and W. E. Young of this office. The examining personnel noted that the Salt Wash member of the Morrison formation outcrops on the property and has been extensively prospected. Known mineralization occurs in the Salt Wash and is related to a roll in the sandstone bedding. No production has been recorded from the property. The examiners believe that the proposed work, consisting of drifting and crosscutting, may disclose small and erratically distributed uranium occurrences, but no deposits of commercial significance. It is therefore recommended that the request for Government assistance be denied. I concur in this recommendation.

The Survey member of the examining team discussed the docket with a representative of the Atomic Energy Commission.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

Reviewed by
DMEA OPERATING COMMITTEE
8-29-55
(date)

DMEA
Date Rec'd.
1955
Denver, Colorado

TRANSMITTED
AUG 23 1955

[redacted], [redacted] AND [redacted]

By Howard Allen and W. R. Young

Gaither, Yarrow and Gaither have applied for DMEA assistance in exploration of the Ophirdale group of uranium claims in Garfield County, Utah. The property, 90 miles south of Salina, Utah, was examined by DMEA personnel June 7, 1955. The applicant has prepared an exploratory project consisting of [redacted] feet of drilling and sampling at a total estimated cost of $[redacted].

Rocks in the area are sandstone, shales and conglomerates of Jurassic age. The Salt Wash sandstone member of the Morrison formation outcrops on the Ophirdale claims and has been extensively prospected. Some mineralization occurs in this member and is related to a fault in the sandstone bedding. Uranium occurrences uncovered on the property are too small and sporadically distributed to be considered minable. No shipments have been made from the property to date.

The consulting engineer and geologist do not believe that exploratory work proposed by the applicant will result in discovery of significant uranium ore bodies. Denial of the request for Government assistance is therefore recommended.

Reviewed by
DMEA OPERATING COMMITTEE
8-29-55
(Date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
Date Rec'd.
JUL 20 1955
BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration

July 18, 1955

TRANSMITTED
AUG 23 1955

Memorandum

To: DMEA Field Team, Region III

From: E. N. Hershman

Subject: DMEA Docket 7766 (uranium), Slather, Harvey, and Slather, Splinter group of claims, Garfield County, Utah

Enclosed are 10 copies of a report by Donald F. Allen, U. S. Geological Survey, in which denial of the subject application is recommended. This recommendation appears justified by the fact that there is little known geologic control for localization of ore on the claims and the fact that ore bodies, if present, would be small.

I assume that the property was or will be examined by a representative of the U. S. Bureau of Mines. No mention of such an examination is made in the geologic report.

E. N. Hershman

E. N. Hershman
Member, Field Team

Enclosures (10)

Reviewed by
DMEA OPERATING COMMITTEE
8-29-55
(date)

MINERAL DEPOSITS
DMEA
RECEIVED
JUL 18 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

TRANSMITTE
AUG

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
P. O. BOX 360
GRAND JUNCTION, COLORADO

RECEIVED
AUG 25 1955

July 12, 1955

DMEA
Date Rec'd.
AUG 12 1955
BUREAU OF MINES
Denver, Colorado

andum

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

rom: J. William Hasler

Subject: DMEA Docket 3766, (Uranium) Ginther, Warren and Ginther, Optimist group of claims, Garfield County, Utah

Enclosed are 12 copies of a geologic report and the accompanying maps on the Ginther, Warren and Ginther, Optimist group of claims, Garfield County, Utah.

The property was examined on June 7, 1955, by Howard F. Albee of the U. S. Geological Survey, and H. C. Warren of the applicant company. The area is underlain by sandstone, shale, siltstone and conglomerate of Jurassic age. The principal ore-bearing formation in the vicinity of the Optimist group of claims is the Salt Wash member of the Morrison formation. The applicant has driven an adit for a distance of about 30 feet along a mineralized seam in the Morrison formation. The seam has pinched out and no mineralization was observed at the face of the adit. The exploratory drift was driven along mineralized sandstone partings that contain abundant carbonaceous films. Production from the area, in general, has been highly selective and production has come from small, individual ore bodies of from 3 to 5 tons. There were only a few places on the Optimist group of claims where radioactivity was as much as three times the background count. There is very little geologic control for the localization of ore bodies evident on the applicant's property and the chance of finding uranium ore in any significant quantity is not good.

It is, therefore, recommended that DMEA assistance to explore the Optimist group of claims be denied. I concur with the conclusions and recommendations resulting from the field examination of the subject property.

We have conferred with the Atomic Energy Commission regarding this application.

J. William Hasler
J. William Hasler
Geologist

JWH/mlr
Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
8-29-55
(date)

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

RECEIVED

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3766, Ginther, Warren and Ginther, Optimist group of claims
Garfield County, Utah

Uranium

Geologic Report

by

Howard F. Albee
U. S. Geological Survey

July 14, 1955

Reviewed by
DMEA OPERATING COMMITTEE
8-29-55
(date)

INTRODUCTION

N. C. Ginther, H. C. Warren, and W. L. Ginther, lessees of the Optimist group of claims known as the Honey Pot mine, have applied (DMEA No. 3766) to the Defense Minerals Exploration Administration for assistance in exploration for uranium on a portion of the Optimist group of claims. These claims are near the confluence of Thompson and Hansen canyons in the Henry Mountains mining district, Garfield County, Utah, in unsurveyed land (fig.1). The Optimist group of claims are about 120 miles by road south of Green River, Utah, the nearest source of major supplies.

The applicant company proposes to explore the claims with 600 feet of five by seven feet drift underground workings. 300 feet of drift is to be driven southerly from the outcrop and the remaining footage as right angle cross-cuts on alternate sides of the main drift at fifty feet intervals. The total cost of the project is estimated at $23,819.40.

The claims were examined June 7, 1955, by Howard F. Albee of the U. S. Geological Survey, accompanied by H. C. Warren of the applicant company.

GEOLOGY

The area containing the Optimist group of claims is underlain by sandstone shale, siltstone and conglomerate of rocks of Jurassic age. They are, in descending order, the Morrison formation and the Summerville formations.

The Morrison formation in the Henry Mountains district is divided into two members, the Brushy Basin shale member which is about 165 feet thick and consists of variegated shale, siltstone, mudstone, and sandstone, and the underlying Salt Wash member, which is the principal ore-bearing formation, is about 500 feet thick (unpublished stratigraphic section measured by L. C. Craig). The Salt Wash sandstone is a grayish yellow, fine-grained sandstone, composed of clean subangular quartz grains. The unit forms a series of thin ledges channeling into each other, and where separated, are separated by thin gray siltstone partings. Small lenses and stringers of chert granules are sparsely distributed throughout the sandstone. The rocks exposed at the Optimist group of claims strike about N. 65° E. and dip about 1° northwest.

ORE DEPOSITS

The Optimist group of claims are located on a rim of Salt Wash sandstone that registers about three times above background, in an area that resembles a stream channel. An adit was driven for 30 feet along a slightly mineralized seam, which pinched out and no mineralization can be observed at the face. The exploratory drift was driven in mineralized siltstone partings, that contained abundant carbonaceous films. Zones of radioactivity are shown on figure 2.

The subject group of claims have had no production and no ore bodies have been developed. About 3 miles northeast of the area of proposed exploration the Lucky Strike mine has had a total production of 216 tons over a period of several years. The Lone Eagle mine has produced 184 tons

and other mines nearby have produced a total of 45 tons. The above production has been from small, individual ore bodies of from 3 to 5 tons, and the ore has been produced by selective mining.

PROPOSED EXPLORATION

The applicant proposes to explore the Optimist group of claims for uranium ore by 600 feet of drift. A main drift is to extend southerly from the present adit for 300 feet. At 50-foot intervals and on opposite sides of the main drift, are to be 50-foot cross-cuts. The estimated cost plus ten percent for contingencies is $39.70 per foot. The exploration program is estimated to cost $23,819.40.

CONCLUSIONS AND RECOMMENDATIONS

Zones of abnormal radioactivity seen on the Optimist Nos. 15 and 16 were probably representative of the amount of radioactivity on subject claims. The nearest production to the claims is about three miles to the northeast. This production is small and from small ore bodies of from three to five tons each. There is no geologic probability that ore bodies ranging from 3 to 5 tons is present on the subject claims. Very little geologic control for the localization of ore bodies could be found on the Optimist group of claims, such as channels, scours, thick sands, or faults; therefore, no geologic guide could be determined for exploration by drifting. The chance of finding uranium ore of any significance is not good. It is, therefore, recommended that DMEA assistance to explore the Optimist group be denied.

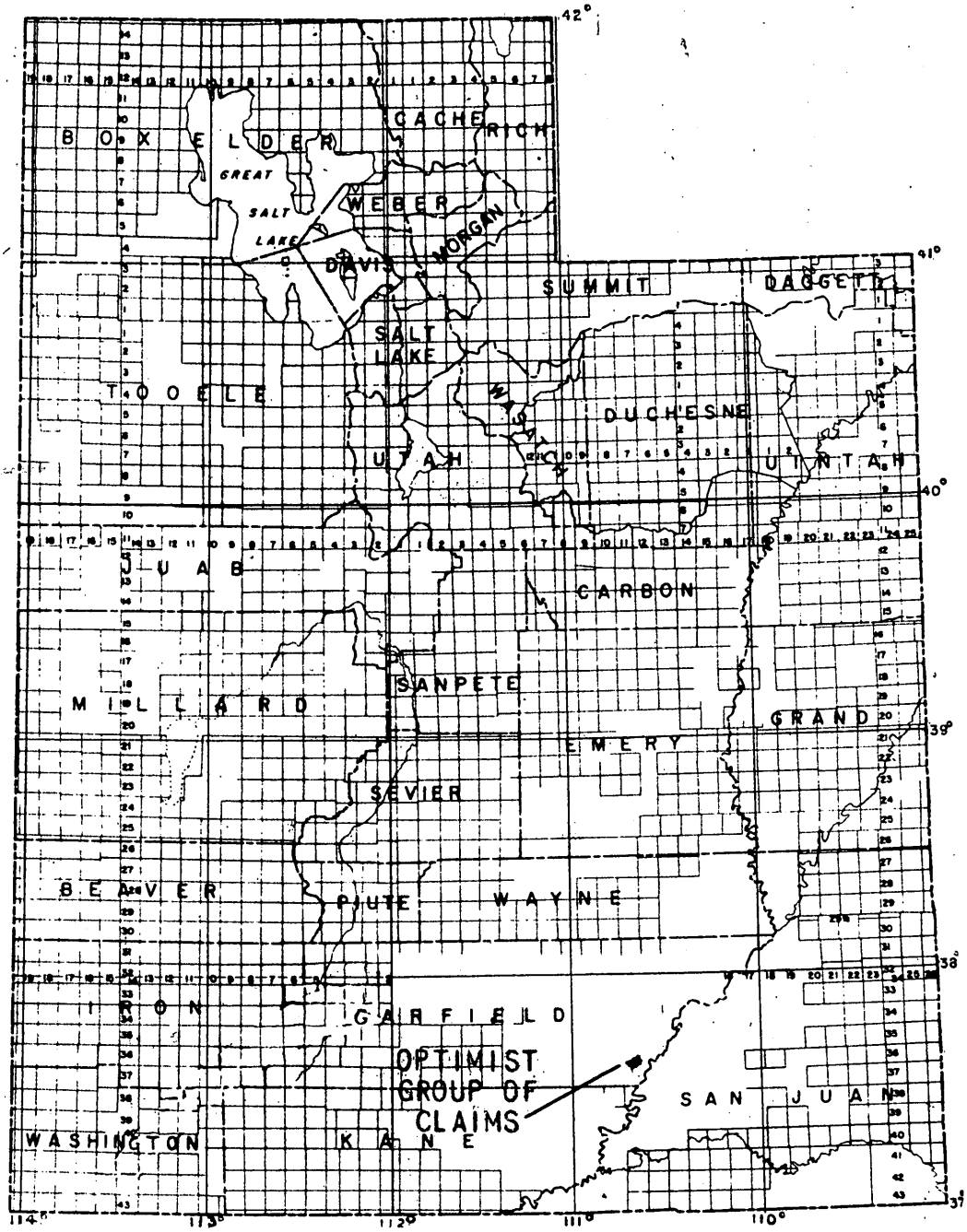
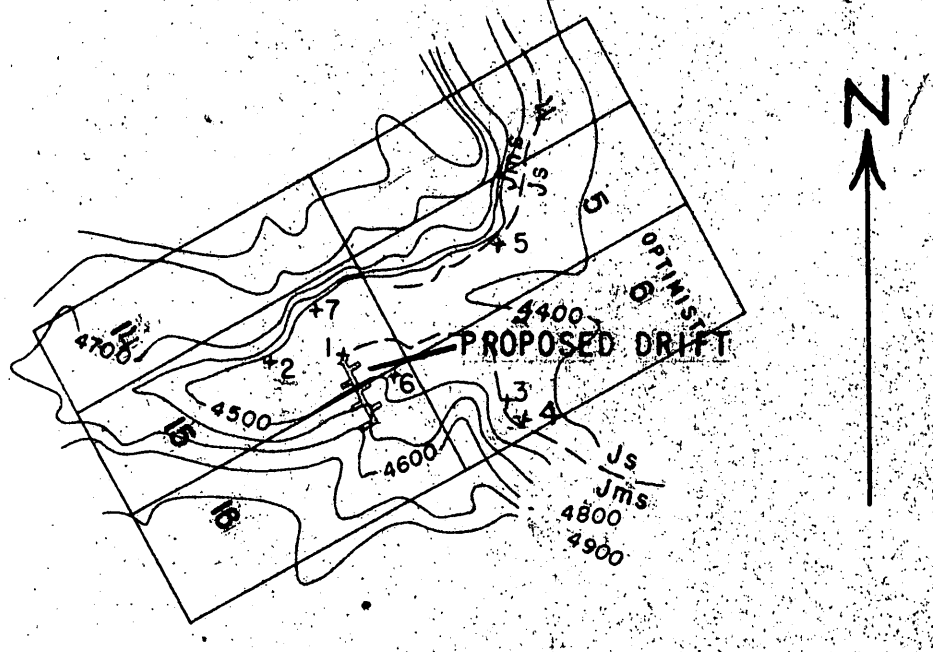


Figure 1. INDEX MAP OF UTAH SHOWING LOCATION OF OPTIMIST GROUP OF CLAIMS, GINTHER, WARREN, AND GINTHER, GARFIELD COUNTY, UTAH



EXPLANATION

CONTACT BETWEEN SUMMERVILLE FORMATION, Js AND SALT WASH MEMBER OF MORRISON FORMATION, Jms

+7 POINT REFERRED TO IN TEXT BY NUMBER

DRIFT WITH CROSSCUTS (PROPOSED)

Note: TOPOGRAPHY, GEOLOGY AND CLAIM BOUNDARIES FROM APPLICANT'S MAP

1000 0 2000 FEET

Figure 2. MAP OF PART OF T. 36 S., R. 11 E., S.L.M. (UNSURVEYED) SHOWING LOCATION OF PROPOSED DRIFT AND CROSSCUTS ON OPTIMIST 4, 5 6, 14, 15, AND 16, CLAIMS, GINTHER, WARREN AND GINTHER GARFIELD COUNTY, UTAH

GINTHER, WARREN AND GINTHER
HONEY POT PROJECT
GARFIELD COUNTY, UTAH
DMEA-3766
Uranium

Engineering Report

By W. E. Young
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
8-29-55
(date)

GINTHER, WARREN AND GINTHER
HONEY POT PROJECT
GARFIELD COUNTY, UTAH

CONTENTS

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Engineering report	
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History and production	3
Ownership and extent	3
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Project proposals	4
Conclusions and recommendations	4

ILLUSTRATIONS

Fig. 1 Location map, Ginther, Warren and Ginther, Honey Pot project, Garfield County, Utah

Fig. 2 Claim map

SUMMARY

Ginther, Warren and Ginther have applied for a DMEA loan to explore for uranium ores on the Optimist group of claims in Garfield County, Utah. The property is about 60 miles south of Hanksville, Utah, and covers an outcrop of the Salt Wash member of the Morrison formation.

The applicant has driven a 30-foot drift at one location on a bedding roll which showed mineralization, and proposes to advance this drift an additional 300 feet and drive 50-foot crosscuts at 50-foot intervals from the drift. The estimated cost of this work is $23,819.40.

The possibility of finding uranium in significant quantity in this area is considered poor. It is recommended that the loan be denied.

INTRODUCTION

The Honey Pot claims of Ginther, Warren and Ginther were examined June 7, 1955, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. Examination was made at the request of the Regional Field Team to determine the advisability of granting a Government assistance loan. Mr. W. Booth and Mr. Gordon Hatch conducted the examining personnel over the property.

The applicant proposes to explore the property by drifting and crosscutting at an estimated cost of $23,819.40.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property is located approximately 60 miles south of Hanksville, Utah, in unsurveyed T. 36 S., R. 11 E., S.L.B. and M. (fig. 1). The claims cover an outcropping escarpment of Salt Wash sandstone. Deep, steep-walled canyons intersect the escarpment exposing the full thickness of the Salt Wash formation. Variable thicknesses of the Brushy Basin member remain on the mesas between canyons.

The property is accessible over existing dirt roads from Hanksville, Utah, passing within 5 miles of the claims. The road into the area, now under construction, will be a good gravel-surfaced road when completed.

HISTORY AND PRODUCTION

The claims are held by right of location by the Cartel Uranium Co. and the Honey Pot Uranium Co. They were recorded in 1954 and 1955.

Ginther, Warren and Ginther have a lease on the claims involved. There has been no production from the property. There is no stockpiled ore.

This property with the surrounding area was held under lease by the Lehigh Valley Coal Corp. until December 1954.

OWNERSHIP AND EXTENT

The property involved consists of the following unpatented mining claims: Optimist Nos. 4, 5, 6, 14, 15 and 16 (fig. 2).

DESCRIPTION OF THE DEPOSITS

Rocks exposed in the area are sandstones, shales and conglomerates of Jurassic age. The outcropping rim of Salt Wash sandstone has been prospected extensively. The applicant has driven an adit 30 feet in length along a roll in this sandstone bed on one of the claims involved. A representative of the applicant stated that mineralization along the roll had been high in grade but spotty.

Radiometric highs about three times the normal background count have been located on the property and investigated. No ore bodies have been developed and no ore has been shipped from the property.

PROJECT PROPOSALS

The applicant proposes to further explore the property by drifting and crosscutting. The present drift which has been driven 30 feet is to be extended 300 feet in a southerly direction with 50-foot cross-cuts on alternate sides of the drift at 50-foot intervals. This work is to be done at the base of the second massive sandstone above the Summerville-Salt Wash contact. The applicant estimates the cost of this work at $39.70 per foot with a total cost of the project estimated at $23,819.40.

CONCLUSIONS AND RECOMMENDATIONS

Extensive prospecting of the Salt Wash member of the Morrison formation has been carried on in the area of the claims of the subject application. No ore bodies have been discovered and no ore has been

shipped as a result of this work. Production from the area in general has been small. Known ore bodies in the area, although high in grade, have been in the 3- to 5-ton class. The chance of finding uranium ores in significant quantities is considered poor. It is recommended that the application for loan be denied.

57/2/5-5-gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 12 1955

224 New Customhouse
Denver 2, Colorado

May 6, 1955

Memorandum

To: S. R. Wilson (w/brochure)
W. P. Williams

From: DMEA Field Team, Region III

Subject: Docket DMEA 3766 (Uranium), Ginther, Warren & Ginther (Honey Pot Project, Optimist Claims), Garfield County, Utah

Enclosed are copies of the subject loan application for $23,819.40, its transmittal from the Chairman of the Operating Committee, and memoranda to E.W. Ellis from J.E. Crawford, U.S. B.M., and N.E. Nelson, U.S.G.S., members of the Uranium Commodity Committee.

After consultation with the appropriate office of the A.E.C. a field examination and covering reports are required. If a contract is recommended Owner's Consent to Lien will be obtained by this office.

W. M. Traver

E. N. Harshman

E. N. Harshman

WMT:jp
cc Subject
Enclosures
Chron
ENHarshman w/copy Chairman's ltr & attachments
Sec. to Op. Comm.

700

Surname copy

Ellis
Kulsgaard
Gukon
Selfridge
Johnson

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

APR 28 1955

Messrs. N. C. Ginther, H. C. Warren
and W. L. Ginther
1714 Nels Esperson Building
Houston 2, Texas

Re: Docket No. DMEA-3766 (Uranium)
Honey Pot Project
Garfield County, Utah

Gentlemen:

The application for assistance in exploring your property, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred for a field examination to the Executive Officer of Region 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 at the earliest opportunity in regard to your project.

Sincerely yours,

D. D. Mittenden (for)

Administrator

EWEllis/gla
4-25-55
cc to: Admr.'s Reading File
Docket
Code 700
DMEA Field Team, Region III (2)

R.C.G.

Docket copy

Ellis
Kiilsgaard
Selfridge
Johnson

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

APR 28 1955

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

Re: Docket No. DMEA-3766 (Uranium)
Messrs. Ginther, Warren and Ginther
Honey Pot Project
Garfield 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 John E.Crawford, dated April 18,and N. E.Nelson, dated April 22, 1955, members of the Uranium Commodity Committee.

If a project is recommended, it is suggested that Applicant be requested to supply executed Owner's Consent to Lien forms (revised March 24, 1955) in septuplicate.

Sincerely yours,

George C. Selfridge By ESY
Chairman, Operating Committee

Enclosures

APPROVED:
/s/ Robert W. Geehan By ESY
Member, Bureau of Mines

Thor H. Kiilsgaard By ESY
Member, Geological Survey

EWEllis/gla
4-25-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5
J. C. Hosted, Rm. 3210
Code 700

R.C.S.

4/22/55 gla

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
APR 22 1955

April 22, 1955

Re: DMEA-3766
Ginter, Warren & Ginter
Honey Pot Project
Garfield Co., Utah
$23,819.40 - Uranium

Memorandum

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

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

Subject: Review of application

The subject application concerns six unpatented claims, west of Hansen Creek in the lower Henry Mountains Region in Garfield County, Utah. The six claims are a selected part of the 20 claim Optimist Group which is in turn a part of a 527 claim property held by the Cartel Uranium Corporation (312 claims) and the Honey Pot Uranium Co. (313).

An air-borne radiometric survey of the entire area was made by Uranium Aerial Explorations for the Lehigh Valley Coal Corporation which at the time, October 1954, held the 527 claim area under option. The option expired in December 1954.

The air-borne survey located some 21 radiometric anomalies on the property. The applicants, Ginter, Warren and Ginter, checked the anomalies and the prospecting by the Honey Pot Company in the Hansen Creek section. Work was eventually centered at the site of the proposed drifting and crosscutting. At this place the Salt Wash member of the Morrison formation outcrops and at one horizon consistent radiometric highs and spot samples (as high as 0.3% U_3O_8) have been obtained. The application says the production of the Ecker Mine, which adjoins on the east, averaged about 2% U_3O_8 for a year. The carnotite ore comes from irregular pods in beds of the Salt Wash member characterized by carbonaceous trash, usually considered a favorable condition.

The work in the 30 foot drift at the Honey Pot disclosed three or four short lenses of uranium-vanadium material up to 1 foot thick and a 6 inch streak shows in the face. Except for the counts and the small lenses no details are furnished concerning cross bedding, color, discontinuity and lenticularity of sandstone beds, presence of mudstone etc., the somewhat accepted guides to favorable Salt Wash ore making horizons.

A field examination of the Honey Pot work and, if practicable, the nearby Ecker Mine should provide the information needed in judging this application.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

Department of the Interior
Defense Minerals Administration
RECEIVED
APR 22 1955

April 22, 1955

Re: DMEA-3706
Ginter, Warren & Ginter
Honey Pot Project
Garfield Co., Utah
$23,819.40 - Uranium

Memorandum

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

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

Subject: Review of application

The subject application concerns six unpatented claims, west of Hansen Creek in the lower Henry Mountains Region in Garfield County, Utah. The six claims are a selected part of the 20 claim Optimist Group which is in turn a part of a 587 claim property held by the Cartel Uranium Corporation (312 claims) and the Honey Pot Uranium Co. (313).

An air-borne radiometric survey of the entire area was made by Uranium Aerial Explorations for the Lehigh Valley Coal Corporation which at the time, October 1954, held the 587 claim area under option. The option expired in December 1954.

The air-borne survey located some 21 radiometric anomalies on the property. The applicants, Ginter, Warren and Ginter, checked the anomalies and the prospecting by the Honey Pot Company in the Hansen Creek section. Work was eventually centered at the site of the proposed drifting and crosscutting. At this place the Salt Wash member of the Morrison formation outcrops and at one horizon consistent radiometric highs and spot samples (as high as 0.3% U_3O_8) have been obtained. The application says the production of the Baker Mine, which adjoins on the east, averaged about 2% U_3O_8 for a year. The carnotite ore comes from irregular pods in beds of the Salt Wash member characterized by carbonaceous trash, usually considered a favorable condition.

The work in the 30 foot drift at the Honey Pot disclosed three or four short lenses of uranium-vanadium material up to 1 foot thick and a 6 inch streak shown in the face. Except for the cements and the small lenses no details are furnished concerning cross bedding, color, discontinuity and lenticularity of sandstone beds, presence of mudstone etc., the somewhat accepted guides to favorable Salt Wash ore making horizons.

A field examination of the Honey Pot work and, if practicable, the nearby Rainer Mine should provide the information needed in judging this application.

Referral to the Field Team is recommended.

W. E. Nelson

WENelson:hlm
G-4/22/55

Copy to: Director's reading, 4212
Branch reading, 4212
BMEA (3)
Docket file
J. E. Crawford, 3641 Interior
J. O. Kosted, 3210 GSA

4/19/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 19 1955

April 18, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3766, Ginther, Warren and Ginther,
Honey Pot claims, South Henry Mountains, Utah

I have reviewed the attached application of Ginther, Warren and Ginther, DMEA Docket 3766, and have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the application be referred to the Field Team for examination and report and that the Field Team be requested to discuss the application with Ernest Gordon, Atomic Energy Commission, Grand Junction, Colorado.

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)

April 12, 1955
Subject: DMEA 3766
Re: Exploration Assistance
Honey Pot Project

Messrs. N. C. Ginther,
H. C. Warren, & W. L. Ginther
1714 Nels Esperson Bldg.
Houston 2, Texas

Gentlemen:

The receipt of your application dated April 6, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3766 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

60932

April 12, 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 - 3766 N. C. Ginther, H. C. Warren, & W. L. Ginther

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

April 8, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance, (Uranium), Ginther, Warren & Ginther, Honey Pot claims, Garfield County, Utah

Enclosed are three copies of the subject application in the amount of $23,819.40.

One copy of the application is being retained in this office.

W. M. Traver

Enclosures

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

224 New Customhouse
Denver 2, Colorado

April 8, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance, (Uranium), Ginther, Warren & Ginther, Honey Pot claims, Garfield County, Utah

Enclosed are three copies of the subject application in the amount of $23,819.40.

One copy of the application is being retained in this office.

W. M. TRAVER

Enclosures

W. M. Traver

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
APR 11 1955

H. F. McFARLAND
Engineer, Denver, Colo.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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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. 3766
Metal or Mineral Uranium
Date Received 4-11-55
Estimated Cost $23,819.40
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: M. C. Ginther 1714 Nels Experson Bldg., Houston 2, Texas
M. C. Warren 1714 Nels Experson Bldg., Houston 2, Texas
W. L. Ginther 1714 Nels Experson Bldg., Houston 2, Texas

(*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 six unpatented mining claim "Optimist 15" and five adjoining claims, Optimist #4, #5, #6, #14 and #16. See Exhibit 2 which accompanies this application

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

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

(*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. See Exhibit E

(*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. See supplemental sheets

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.

16—66551-1

(See supplemental sheets for 4 (a)-(e).)

(See supplemental sheets for 5 (a) - 6 (b).)

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

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

(*c*) The work will start within 10 days and be completed within 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.

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?

[X] 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 April 6, 1955

N. C. Ginther, H. C. Warren, W. L. Ginther
(Applicant)

By N. C. Ginther

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

H. F. McFARLAND
Engineer, Denver, Colo.

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Engineer, Denver, Colo.

DEPARTMENT OF THE INTERIOR
Bureau of Lands Administration
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SUPPLEMENTAL SHEETS

to accompany

APPLICATION FOR AID

in an

EXPLORATION PROJECT,

Pursuant to D.M.E.A. Order 1

Applicant: Ginther, Warren & Ginther

Honey Pot Project

3. <u>Applicant's property rights</u>

(e) The book and page numbers of each recorded location notice are as follows:

Location	Date	Book	Page
Optimist # 4	May 14, 1954	26	130
(Amended Location)	March 24, 1955	68	34
Optimist # 5	May 14, 1954	26	131
(Amended Location)	March 24, 1955	68	35
Optimist # 6	May 14, 1954	26	132
(Amended Location)	March 24, 1955	68	36
Optimist # 14	March 24, 1955	68	44
Optimist # 15	March 24, 1955	68	45
Optimist # 16	March 24, 1955	68	46

4. Physical description

(a) Exploration operations which have been or now are being done upon the land are as follows:

(1) During the period July 1 to September 30, 1954 the Honey Pot Uranium Corporation prospected in the lower end of Thompson Canyon and in Hansen Creek directly above its confluence with Thompson Canyon. This prospecting consisted of some six drifts into the cliff faces and of cuts in favorable areas. Although areas of high count were encountered in several instances, no ore was found.

The Honey Pot Company also mined seven tons of fossilized tree trunks in upper Thompson Canyon. These showed considerable carotite stain. The value on analysis at the Climax Mill was 0.05% U_3O_8, not high enough to be commercial.

(2) An air borne radiometric survey of the entire area was made by Uranium Aerial Explorations of 215 Yucca Drive, N.W., Albuquerque, New Mexico, working under contract for the Lehigh Valley Coal Corporation. This survey, made during the period October 25-30, 1954, located some 21 radiometric anomolies on the property. The report of the survey, together with the accompanying map, was turned over to the present operators upon the expiration of the

4. Physical description, continued

Lehigh Valley option in December, 1954. The radiometric anomolies located in this survey are shown on Exhibit A. A copy of the report appears as Exhibit F.

(3) The air borne radiometric survey mentioned in (2) above was checked, extended and intensified by Ginther, Warren & Ginther during the period December, 1954 to February, 1955. The anomolies located in both surveys were verified by ground examination and those which had no values, such as anomolies caused by a mass effect of low value shale or sandstone were eliminated. After consideration of the most favorable anomolies left, a compressor, tractor and dozer, air drill slusher hoist, and other mining equipment were put in action, and the more favorable areas were explored more intensively by means of drifts, cuts, trenches, and exposures on the cliff faces.

The first exploration was in the form of drifts on three separate faults, one major and two sympathetic, at the confluence of Thompson and Hansen Creeks near the location marked NE on Exhibit B. These faults all showed considerable mineralization, mostly iron, and some radiometric count. Drifts four to eight feet failed to show any increase in the radiometric count or any increase of

4. Physical description, continued

uranium mineralization and they were abandoned.

Next the cliff face was blasted at the location marked "Mine Portal" on Exhibit B, on the strength of high radiometric count at the surface. After the first blast, the count showed an increase, and one exposed zone four feet in length by three inches in thickness gave radiometric values in uranium on the order of 0.03 per cent U_3O_8. After the second blast, this zone had increased to about eight inches in thickness and some ten feet in length. A wet assay by Charles O. Parker & Co. of Denver, gave an U_3O_8 content of 0.282% U_3O_8 and a vanadium content of 3.28%. (See Assay, Exhibit D1) When the next blast was removed, it was found that the mineralization had disappeared. Also, the overhanging sandstone was fractured and broken to such an extent that it was necessary to remove some ten feet of the cliff for a height of thirty feet and a width of forty feet before it was safe to continue the prospecting.

After the fractured rock had been removed, drifting was again resumed on one small spot that still had radiometric count. The count increased until there was again a showing of ore which again disappeared except for a

4. Physical description, continued

small stringer. This count was again followed, developed and again decreased. This process had continued until there is now a drift thirty feet into the cliff which shows areas of high count along the walls. Near the face are two zones that show assays of uranium and vanadium, as follows:

		U_3O_8	V_2O_5
February 14, 1955 -	Sample 6" wide across face, 7 ft. long	0.182%	0.34%
February 21, 1955 -	AM1, Zone on left wall 1' wide, 4 ft. long	0.168%	0.49%
February 21, 1955 -	PM2, Zone on left wall 3" wide, 2 ft. long	0.377%	0.72%

Copies of these assays are included with this application as Exhibits D2 and D3.

Three other areas of high count were investigated by means of blasting off the weathered face of the cliff and pushing off the broken rock with a dozer. They failed to show the anticipated increase in count, and were abandoned. They are shown on Exhibit B as 2, 3 and 5.

The work described above was done and paid for in total by Ginther, Warren & Ginther, (except for the work done by Honey Pot Uranium Company and Lehigh Valley), during the period November 10, 1954 to March 1, 1955.

4. Physical description, continued

The workings and zones of enrichment are accessible for examination. Check samples may be taken at the same locations as those taken February 14 and 21, copies of which are enclosed.

(b) There has been no past, and is no current production. There are no ore reserves.

(c) Geological Features

The Morrison formation (upper Jurassic) is the outstanding feature of the property. In this area it has an over-all thickness of some 600 feet. It is divided into two members. The upper member, known as the Brushy Basin, is some 100 feet in thickness. It is composed predominantly of purple, red, green, gray, and white shale beds with a few indefinite sandstone beds. The lower member, known as the Salt Wash, is some 500 feet in thickness. It consists of massive beds of sand from 4 to 40 feet in thickness separated by comparatively thin beds of shale and mudstone.

The claims subject to this application cover the Salt Wash member over its entire section, from its contact with the Sommerville at the bottom to the Brushy Basin on top.

From all observations to date, indications are

4. Physical description, continued

that the most favorable ore horizon is in the lower portion; to be more precise, in the second massive sandstone member above the Salt Wash - Sommerville contact. This is substantiated by the following facts:

(1) Production from the Ecker Mine, which adjoins the property on the east, comes exclusively from this horizon.

(2) Radiometric highs occur consistently along this horizon.

(3) The ore exposed in the target area is at this horizon.

TYPE OF DEPOSIT

The mineralization as indicated by the assays of ore showing on claim Optimist 15 and by production on the Ecker property previously mentioned are the carnotite mineralization type of deposit in association with carbonaceous trash. The assays show uranium-vanadium values to as much as 0.3 per cent of the first mentioned and 3.3 per cent in the case of vanadium (see assays, Exhibits D1, D2, and D3.).

The occurrence is in the form of horizontal irregular pods, parallel to but not necessarily in the

H. F. McFARLAND
Engineer, Denver, Colo.

4. Physical description, continued

bedding planes. On the basis of experience on the adjacent property, deposits would tend to be small and high-grade.

The grade of ore from this adjacent property is about 2 per cent of U_3O_8 averaged over a year's production.

The reasons for wishing to explore are:

(1) All indications are that there is a good possibility of extending and increasing the present discoveries of ore into sufficiently large bodies to be of economic importance. These indications are, first, the favorable geological conditions; second, the fact that there is at present ore of economic grade exposed; and thirdly, the proximity to present production.

(2) Commercial deposits can be located <u>only</u> by underground exploration. Experience in the Salt Wash formation in general, and in the specific area under consideration, is that the mineralization is leached out near the surface. This fact

4. Physical description, continued

has further been verified by radiometric observations, both airborne and on the ground, in proximity to known deposits on the Ecker property.

Included herewith under supplemental date is a copy of an airborne radiometric survey of the general area made by Uranium Aerial Explorations of Albuquerque, New Mexico, during the period of October 25-30, 1954. Radiometric anomolies made on the ground on the claims under discussion are shown on Exhibit B at points 2, 3, 4, 5, 6, and 7. They are discussed in more detail under application heading 4 (a), Physical Features.

(d) Accessibility

The property is accessible by road from Hanksville, Utah (which is 60 miles south of Green River, Utah, over a graveled road). From Hanksville an improved road runs southeasterly fifty miles to Hansen Creek, which is the northern extremity of the Honey Pot holdings (see Exhibit A). An unimproved road follows down Hansen Creek to the claims under consideration.

Ginther, Warren and Ginther have planes available and will be pleased to make these available to the examin-

4. Physical description, continued

ing engineers. There is a landing strip within less than one-quarter mile of the target area. If this arrangement were used, it would simplify the transportation problem.

The distance to the shipping point, Green River, Utah, is 120 miles. Green River is also the nearest supply and residence point. Men are quartered in a building on the property located at the point marked "camp" on Exhibit A.

(e) Availability

Manpower is available in the general area at Green River, 120 miles distant, and at Grand Junction, which is some 240 miles distant.

Materials, supplies, and equipment are available in ample amounts at Grand Junction, Colorado.

Water, other than that for domestic use, is available on the property, with a small amount of development, such as dozing out pits in the streambed. Domestic water must be hauled from Star Springs, ten miles away.

There is no electric power available.

5. THE EXPLORATION PROJECT

(a) Uranium

(b) The proposed work consists of 600 feet of drift 5 x 7 in cross section. This drifting to consist of one main drift driven in a southerly direction 300 feet from the present strike (at the location marked "Mine Portal" on Exhibit 2) with right-angle crosscuts some fifty feet in length driven on alternate sides of the main drift on 50-foot centers. All the above-mentioned drifts is to be on that level which is considered to be the most favorable ore horizon, that is, the bottom of the second massive sandstone bed above the Salt Wash - Sommerville contact. This is the horizon from which the production is now coming in the Ecker mine, which is immediately adjacent to the Honey Pot property on the east.

(c) The work will start within 10 days and be completed within six months from the date of an exploration project contract.

(d) Applicants are independent oil operators with experience in geological and geophysical exploration, drilling, and production of oil and gas wells,

5. The Exploration Project, continued

construction and operation of natural gasoline and liquid petroleum gas plants, construction and operation of oil and gas pipe lines, dehydration plants, compressor stations, and similar facilities.

The resident supervisor will be E. A. Warren. The consultant will be H. F. MacFarland.

Experience and background of E. A. Warren:

Experienced in geological mapping, core and placer drilling, gold dredge construction, supervisor in connection with oil and gas well drilling, oil production, and in airborne radiometric surveys.

Experience and background of H. F. MacFarland:

Education:

Graduate Colorado School of Mines, E. M. degree, 1932.

Graduate work Howard University, 1933-1934, and Colorado School of Mines, 1942-1943.

Experience:

1934-1937--Chief Engineer Cerrode Pasco Copper Corporation, Morococha Division, Peru, South America.

5. The Exploration Project, continued

1937-1940--Surveyor, West Rand Consolidated Mines, Johannesburg, Transvaal, Union of South Africa.

1940-1942--Consulting Engineer, Coal operations in Colorado and Wyoming.

1942-1943--Instructor in Mining Engineering, Colorado School of Mines, Golden, Colorado.

1944-1953--Consulting Engineer, practicing in Colorado, Utah, Wyoming and New Mexico.

6. ESTIMATE OF COSTS

(a) Independent contracts -- none.

(b) Labor, Supervision, Consultants

It is proposed to use four men and a supervisor on the project, to work five shifts per week. The labor cost per shift would be:

4 miners, 8 hours per shift, $2 per hour	$ 64.00
1 supervisor, $600 per mo., (25 shifts per mo.)	24.00
Consultant's services, $300 per mo.	12.00
	100.00

It is estimated that the average advance per foot will be 4.5 feet per round. Dividing the cost per round

MINING LEASE

THIS AGREEMENT OF LEASE, Made and entered into this 3rd day of November, 1954, by and between HONEY POT URANIUM CO., a Colorado corporation, and CARTEL URANIUM CORPORATION, a Colorado corporation, hereinafter called "Lessors," and N. C. GINTHER, H. C. WARREN, and W. L. GINTHER, whose address is Esperson Building, Houston, Texas, their heirs and assigns, hereinafter called "Lessees";

WITNESSETH, That

The Lessors for and in consideration of $3,000.00 by the Lessees paid to the Lessors, receipt of which is hereby acknowledged by the Lessors, and of the rents, royalties, covenants and agreements hereinafter expressed to be paid, kept and performed by the Lessees, have leased, let and demised unto the Lessees those certain mining properties and premises situated in Garfield County, Utah, consisting of 527 unpatented mining claims held by right of location and continued occupation, the descriptions of which are set forth in the respective location certificates thereof, which location certificates are recorded in the public records of said Garfield County; and being those mining claims which, with the book and page of the record of their respective location certificates, are listed in Schedule A hereto annexed. The rights granted are subject to any existing easements and rights-of-way, and to all terms of United States Patents to be issued to said property; and there is expressly excluded herefrom any portion of the above described unpatented mining claims which may be deeded, relinquished or lost to the Lessors in settlement of conflicts; and the Lessors make no warranty of title or covenant of quiet enjoyment with respect to said mining claims.

TO HAVE AND TO HOLD the above described premises for a period of 20 years from the date hereof, unless this lease be forfeited or terminated as hereinafter provided.

The parties, in consideration of the premises, have covenanted, contracted and agreed, and by these presents do covenant, contract and agree:

1. Relationship of Parties.

The relationship of the parties hereto is exclusively that of lessors and lessees, and no relationship of partner, joint adventurer, or otherwise than lessors and lessees, is intended to be or is created by this agreement; there shall be no privity of contract between the Lessors and any of the employees, licensees, contractors, subcontractors, or sublessees of the Lessees, and all prospecting, development and mining operations hereunder shall be under the sole and exclusive control of the Lessees.

2. Operations by Lessees.

Lessees shall have the right to work and operate on any and all of the demised property, to mine, extract, take and market ores and minerals therefrom, sell or otherwise dispose of the same, and receive the full proceeds therefrom; to treat said ores and minerals in a mill or plant on said property, and to ship or take same to any other plant for treatment, reduction or sale; to erect and operate on said property a plant or plants and other facilities for mining, treating, or processing of ores and minerals from said property, or other properties, and for processing of the content thereof into any obtainable products; and generally to do any and all things, which Lessees may deem desirable in connection with the operation of the property. The Lessees shall have the full right of ingress and egress over, under or through the demised property for prospecting, mining, ventilating and draining adjacent or contiguous land operated by Lessees, and Lessees or any person, firm or corporation working by or under Lessees, or purchasing ore from Lessees, shall have the right to place dumps or other debris on the premises and Lessees shall have the right, at their election and upon giving Lessors notice of their desire so to do, to mine ore from the demised premises through or from adjacent or contiguous premises owned by or held under lease by the Lessees.

3. Work Requirements and Payments.

The Lessees shall promptly enter upon said properties and commence the prospecting thereof by such methods as they deem

advisable, and shall thereafter prospect and mine said property with reasonable diligence as a prudent mine operator would do under the same or similar conditions.

Anything to the contrary herein notwithstanding, this lease shall terminate on December 31, 1954, unless the Lessees shall on or before said date pay to the Lessors the sum of $10,666.00; provided, that any royalties paid to Lessees between the date hereof and the close of business on December 31, 1954 shall be credited as partial payment of said sum; but if the aggregate amount of royalties paid during said period exceeds $10,666.00, such excess shall be retained by the Lessors free of any claims by the Lessees.

Anything to the contrary herein notwithstanding, this lease shall terminate on March 1, 1955, unless the Lessees shall on or before said date pay to the Lessors the further sum of $10,666.00; provided, that any royalties paid to the Lessees between December 31, 1954 and March 1, 1955 shall be credited as a partial payment of said sum; but if the aggregate amount of royalties paid during said period exceeds $10,666.00, such excess shall be retained by the Lessors free of any claims by the Lessees.

Anything to the contrary herein notwithstanding, this lease shall terminate on May 15, 1955, unless the Lessees shall on or before said date pay to the Lessors the further sum of $10,667.00; provided that any royalties paid to the Lessees between March 1, 1955 and May 15, 1955 shall be credited as a partial payment of said sum; but if the aggregate amount of royalties paid during said period exceed $10,667.00, such excess shall be retained by the Lessors free of any claims by the Lessees.

Prospecting, development work, and mining shall be done by such methods and at such places as Lessees shall deem advisable; provided, however, that if Lessees shall have made the payments required to be made as aforesaid, they shall prior to July 1, 1955, do or make, or cause to be done or made, work or improvements of sufficient value on or for the benefit of each unpatented mining claim covered by this lease, as will when added to the value of the work and improvements heretofore done by the Lessors (estimated to be of a value of not less than $30,000) amount in the aggregate to the value of at least $100.00 per claim.

After July 1, 1955, the Lessees shall, during each annual period for the doing of assessment work, do or make, or cause to be made and performed, work or improvements of sufficient value on or for the benefit of each unpatented mining claim covered by this lease, or which shall hereafter become included thereunder, to preserve the possessory right of the Lessors; provided, however, that the Lessees shall have the continuing right to surrender this lease as to any claim at any time more than four months prior to the end of the period for the doing of such assessment work, and by such surrender shall be relieved from the performance of assessment work on the claim or claims so surrendered; and provided further, that the requirement of doing assessment work shall cease as to any claim when application for United States Patent therefor shall have been made and a Manager's Final Receipt, or its equivalent, has been issued and delivered to the applicant by the Bureau of Land Management or other authorized agency of the federal government.

Lessees shall seasonably furnish to Lessors sufficient information concerning assessment work done as will enable Lessors to seasonably file affidavits concerning the same in the public records.

The Lessees shall work the demised premises in mine fashion and manner consistent with good and economical mining, and with due regard to the preservation thereof as workable mining properties.

The Lessees shall well and sufficiently timber all workings through which they work, in accordance with good and safe mining practice, and shall keep drifts, shafts and other workings through which they shall work, drained and cleared of loose rock and rubbish unless prevented by extraordinary mining casualty. The Lessees shall have the right to abandon any workings whenever, in their opinion, ore is exhausted or further mining would be unprofitable.

After operations hereunder shall have been commenced by the Lessees, the suspension of actual operations of prospecting, developing and mining, for a period of 90 consecutive days shall, at the option of the Lessors as hereinbelow provided, and the mere keeping of watchmen or caretakers at the premises shall not be sufficient to maintain this lease in force and effect.

4. Unpatented Claims.

The Lessees shall promptly notify the Lessors in writing of any acts of third parties which in Lessees' opinion might adversely affect any of the titles of the Lessors but the Lessees assume no obligation to protect or defend said titles, or any of them, against any claims of third persons.

The Lessees shall have the right, at their option, after thirty (30) days written notice to the Lessors, to make application, at Lessees' expense, for patent to all or any of said unpatented claims, in the name of the Lessors, and if such notice be given, Lessors shall promptly furnish to Lessees proper authority to enable the Lessees to proceed. Lessees shall not be entitled to reimbursement for such patenting expense.

5. Information and Reports.

The Lessees shall at all times have sufficient surveys and maps made and kept to disclose the location of test holes and the nature and location of underground workings. All information obtained by drilling shall be the exclusive property of the Lessees, but shall be furnished to the Lessors upon the happening of any of the following:

(a) As to claims which may be surrendered, promptly after the date of surrender.

(b) After patent application has been made and "Manager's Final Receipt" or its equivalent, has been issued and delivered by the Bureau of Land Management, the Lessees shall promptly disclose to Lessors to the best of Lessees' information, the nature, quality, thickness and extent of all mineral bearing deposits encountered within the patented ground.

(c) If this lease be terminated by surrender, cancellation, or by expiration of the term, the Lessees shall make disclosures as provided in the preceding paragraph (b), and in such case shall also deliver to Lessors the maps hereinabove mentioned, or copies thereof.

(d) By agreement of the parties.

6. Royalty

Lessees shall pay Lessors as royalty on all ores and minerals extracted from the demised premises and sold, 10% of the returns received therefrom. By "returns received therefrom" is meant the gross sales price, plus all bonuses, and plus all allowances except haulage allowances. The Lessees shall request each ore purchaser to supply to Lessors upon settlement for each lot sold, a copy of the settlement statement for such lot.

Royalties shall be paid on a monthly basis, as soon as accounting for the same shall be accomplished, and each payment shall be accompanied by a statement showing the items constituting said payment.

7. Records and Inspection.

The Lessees agree that they will keep and maintain correct and complete books of account and records showing truthfully and accurately and in reasonable detail the amount of all minerals or ores mined and sold from the demised premises; the names and addresses to whom shipments of product are made; any and all returns received therefrom, including bonuses and allowances, and all other particulars necessary and proper for the true and accurate ascertainment of royalties. To enable the Lessors to be currently informed and assured as to the correctness of the statements of account to be rendered by the Lessees from time to time as herein provided, the accredited representative of the Lessors at all reasonable times shall have full and free access to the property and to the plants on the property handling the ores, at the sole risk and expense of the Lessors, and also the right to inspect and audit all such records and books of account kept by the Lessees relating to ores and minerals mined and sold; and to inspect, check, and if deemed advisable or desirable, make copies of or extracts from, all reports, records, memoranda, books of account, ore returns or other documents, vouchers, or memoranda relating to ores and minerals mined and sold; provided, however, that such inspection, audit, checking and copying shall not unreasonably interfere with the business requirements of the Lessees.

The provisions of this paragraph do not apply to drilling records, drill cores, or logs, as to which the provisions of Paragraph 5 shall apply.

8. Taxes.

The real estate and production taxes shall be paid by the Lessees. For the security and payment of such taxes, the Lessees shall each month deposit in International Trust Company, Denver, Colorado, in a savings account subject to withdrawals upon joint order of the Lessees and an agent of the Lessors, 2% of the returns received from ores and minerals, computed in the same manner as hereinabove provided for computing percentage royalty. The money deposited in any calendar year shall be used for the payment of taxes for that calendar year, and any excess of deposits in any calendar year shall, after taxes for that calendar year are paid, be promptly withdrawn and paid over to the Lessees. If the amount so deposited in any year is not sufficient to pay, as aforesaid, the full amount of taxes, the Lessees shall promptly, upon request of the Lessors, pay to the Lessors or to the tax collecting authority, the amount of such deficiency.

The Lessees shall pay all taxes on their own personal property and on any plant or plants erected on the demised premises by them, and shall also pay any occupational tax assessed by reason of their operations.

9. Visitation.

The Lessors, or the authorized representative of either of them, may enter said property at all reasonable times for the purpose of inspecting the same, and Lessees shall facilitate such inspection in every reasonable way; but the representatives of the Lessors shall enter upon said demised property at Lessors' own risk and so as not to hinder unreasonably the operations of the Lessees and the Lessors shall indemnify and hold harmless the Lessees from any damage, claim or demand by reason of injury to or the presence of Lessors' licensees, agents or representatives, or any of them, on the demised premises or approaches thereto.

10. Liens.

Lessees shall keep the demised premises free and clear of labor and material liens and encumbrances created by reason of their operations, and shall keep posted in a conspicuous place a written or printed notice that the premises are leased to and operated by Lessees and that the interest of Lessors shall not be subject to liens by reason of Lessees' operations. This provision of this paragraph relates only to real estate and not to movable machinery or equipment used on the property.

11. Compliance with Law.

Lessees shall conduct their operations in accordance with the laws of the United States of America and of the State of Utah, and any subdivision of either, now in force or hereafter enacted, and all valid rules, requirements and regulations thereunder. Lessees shall comply with the Workmen's Compensation Law of Utah, and the Labor Relations Act of Utah, and with the Social Security Act, Unemployment Insurance, and all of the State and Federal laws relating to Lessees' operations hereunder.

12. Additional Claims

It is anticipated that the Lessors or the Lessees, or some of them, may desire to locate additional mining claims within that certain area bounded on the west by Halls Creek, on the South by the boundary line between Garfield and Kane Counties, on the east by the Colorado River and on the north by an east-west line passing through Thompson's Seep. Any additional mining claims located by any of the parties to this agreement or by any assignee of a party, or by any person acting in behalf of or for the benefit of such party or such assignee, during the period in which this lease is in force and effect, shall be and become a part of the leased premises and subject to all of the terms and provisions of this lease.

It is understood that Honey Pot Uranium Co., under date August 9, 1954, granted to John H. Chiremen a lease covering 47 unpatented mining claims situate within the area described in the preceding paragraph, which lease has been assigned to and is now held by Lehigh Valley Coal Corporation, a Delaware corporation.

It is understood and agreed that in the event that said lease be surrendered or cancelled at any time while this lease is in force and effect as to all or any part of the claims covered thereby, the claims so released from the provisions of the lease held by said Lehigh Valley Coal Corporation shall immediately be and become a part of the premises leased hereunder, and subject to all the terms and provisions of this lease.

13. Termination by Default.

The failure of the Lessees to make or cause to be made any of the payments herein provided for or to keep or perform any agreement or condition on their part to be kept or performed according to the terms and provisions of this lease shall, at the election of the Lessors, and upon giving notice thereof to the Lessees, constitute a forfeiture of this lease when declared; provided, however, that in the event of a default on the part of the Lessees, and the election of the Lessors to terminate this lease on account thereof, the Lessors shall give to the Lessees a written notice of their intention todeclare a forfeiture of this lease and to terminate the same on account thereof, specifying the particular default or defaults relied upon by Lessors. The Lessees shall have thirty (30) days after receipt of such notice in which to cure such default or defaults, and if such default or defaults are fully cured within said period, there will be no forfeiture of this lease with respect to such default or defaults. No waiver of a default and no failure or neglect on the part of the Lessors to give notice of a default or defaults nor other failure to act shall affect any subsequent default or impair the Lessors' rights resulting therefrom.

14. Termination by Surrender.

The Lessees shall have the right to surrender and terminate this lease and be relieved from further obligations hereunder by giving the Lessors herein thirty (30) days' notice in writing of their intention so to surrender and terminate the same and paying to Lessors any sums due, including taxes apportioned to

date of surrender, and furnishing to said Lessors satisfactory evidence that all debts, claims and other obligations theretofore incurred by Lessees in the prospecting, operation, working, and development of said demised premises, or in placing of machinery or other improvements thereon have been fully liquidated; and thereupon at the expiration of said thirty (30) days, in consideration of such payment and the expenditures theretofore made by said Lessees under this lease, said Lessors shall and hereby do release said Lessee from any further demand or claim of any nature or kind whatsoever; provided, however, that if the surrender occurs after April first and prior to July first of any year, the Lessees shall complete the annual assessment work and improvements required for the period ending July first of that year.

15. Removal of Equipment.

Upon termination or surrender or upon forfeiture as herein provided, Lessees, upon payment of all sums accrued from them to Lessors, may within thirty (30) days from the date of termination or surrender, remove all machinery, tools and equipment placed in or upon the demised property by Lessees. All buildings, structures, and installed mine track, and installed air and water lines shall become the property of Lessors.

16. Force Majeure

It is agreed that this lease cannot be cancelled for or on account of damage, or delay resulting from disasters, labor disturbances, strikes, lockouts, force majeure or act of God, or from governmental or legal regulations or restrictions.

17. Renewal.

Lessees shall have the privilege of renewal of this lease for 20 years longer, provided the Lessees are not in default at the expiration of the term hereby granted, said renewal to be upon the same terms and conditions as this lease. If a renewal be made as aforesaid, then Lessees shall have the privilege of another renewal for an additional 20 year term, provided Lessees are not in default at the expiration of the term of the first renewal, such second renewal to be on the same terms and conditions as this lease.

18. Assignment.

Lessees shall have the privilege of assigning any fractional interest in the leasehold estate which does not result in separating the leased premises into separate parcels.

In case the Lessees shall sell and convey the entire leasehold estate, or convey a part less than the whole in such manner as will result in a separation of the premises into separate parcels, they agree to pay to the Lessors at the time of such sale or conveyance 10% of the net consideration or considerations received by them therefor.

19. Right to Discharge Liens.

The Lessees may, at their option, pay and discharge any liens existing or hereafter established against the leased premises by reason of operations of Lessors prior to the date hereof, and may reimburse themselves by applying any moneys due from them to the Lessors for royalty or otherwise.

20. Successors.

The terms hereof shall inure to the benefit of and be binding upon the heirs, personal representatives, successors and assigns of the respective parties.

IN WITNESS WHEREOF, the Lessors have caused their names to be hereto subscribed by their respective Vice Presidents, each thereunto duly authorized, and their respective seals to be hereunto affixed and attested by their respective Secretaries; and the Lessees have hereunto subscribed their names.

HONEY POT URANIUM CO.

By S/ Teller Amrons
Vice President

ATTEST:

S/ A. John Davis
Secretary

CARTEL URANIUM CORPORATION

By S/ Teller Amrons
Vice President

ATTEST:

S/ A. John Davis
Secretary

LESSORS

S/ N. C. Ginther
N. C. Ginther

S/ H. C. Warren
H. C. Warren

S/ W. L. Ginther
W. L. Ginther

LESSEES

Schedule A is to contain the names of the claims covered by this lease with the book and page where their location certificates are recorded. There will be the following:

Cartel Uranium Corporation

Cartel #1 to #200	200
Mickey Boy #1 to #10	10
Cartel Annex #1 to #20	20
Cartel #300 to #339	40
Hall Mesa Rim #1 to #39	39
Hall Mesa Rim #2A, #3A, #4A	3
	312

Honey Pot Uranium Co.

Goldie #1 to #20	20
Patricia #1 to #20	20
Mark #1 to #20	20
Nash #1 to #20	20
Mike #1 to #20	20
Cibola #1 to #20	20
I Block #1 to #30	30
Pessimist #1 to #20	20
Optimist #1 to #20	20
East Cove #1 to #25	25
	215

Schedule A, when prepared, is to be substituted for this page.

RTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

RECEIVED
APR 11 1956

Folio 6355

H. F. Morland,
1861 So. Corona,
Denver, Colo.

Date Dec. 27, 1955.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
Samples	0.282%	3.28%					

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ paid.

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

2114 CURTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6382

Date Feb. 14, 1955.

H. F. McFarland,
1861 So. Corona St.,
Denver, Colo.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
Sample:	Uranium oxide (U308) 0.182%			Vanadic acid (V205) 0.34%			

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ 7.00

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

2114 CURTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6387

Date Feb. 21, 1955.

H. F. McFarland,
1861 So. Corona St.,
Denver, Colo.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
AM 1	0.168%	0.49%		0.14			
PM 2	0.377%	0.72%		0.32			

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ 14.00

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

6. Estimate of Costs, continued

by the advance per round, the estimated cost per foot of tunnel is:

Labor cost, $100 ÷ 4.5 feet equals $22.23 per ft.

(c) Operating Materials and Supplies

1. Powder, fuse and caps

Per round, $12.00 2.67 per ft.

$12.00 ÷ 4.5 feet equals

2. Gas and Oil for Compressor

Per shift $8.00; $8 ÷ 4.5 feet 1.78 per ft.

3. Bits and steel rehabilitation, shovels, picks, $5.00 per round ÷ 4.5 feet 1.12 per ft.

(d) Operating Equipment and Supplies

Compressor and Drill

Now on property on rental from Western Machinery Company, Grand Junction, Colorado.

1 125 Jeager gasoline driven compressor

1 Thor compressed air drill with jackleg

Rental on both, $330.00 per month

$330.00 ÷ 25 shifts per month equals $13.20 per shift

$13.20 - 4.5 (feet per shift) equals 2.94 per ft.

6. Estimate of Costs, continued

Rails, ties, and pit cars

400 feet trackage, 2 pit cars

Estimated cost plus transportation less

estimated resale value $600.00 ÷ 600 feet 1.00 per ft.

Compressed air line 500 feet 2" pipe @ 40¢

$200.00 ÷ 600 feet .33 per ft.

(e) Rehabilitation and Repairs

No necessary rehabilitation required on buildings or equipment.

(f) New Buildings

No new buildings proposed.

(g) Miscellaneous

Estimated repairs on compressor, drill, drill steel, $400.00 $400 ÷ 600 feet 0.66 per ft.

Analytical work, 50 assays @ $7 per sample

$330.00 ÷ 600 feet 0.55 per ft.

Accounting to be done by project supervisor

Workmen's Compensation and Employees' Liability Insurance, Rate $6.00 per $100.00 payroll

Payroll $13,338.00 x $6.00 equals $800.28

6. Estimate of Costs, continued

Payroll Taxes

2% on $13,338.00 payroll	$ 266.76		
Total above	$1,067.04		
$1,067.04 ÷ 600 feet equals		1.78	per ft.
Cost per foot of drifting		$36.09	per ft.

Total footage of project, 600 feet

Cost of project before contingencies

600 feet at $36.09 per $21,654.00

(h) Contingencies

10% allowance for contingencies $2,165.40

Estimated total cost of project $23,819.40

Estimated total cost per foot $39.70

TABLE OF EXHIBITS

EXHIBIT A

Map showing

(1) Area in which property is located

(2) Airborne Radiometric Anomalies

(3) Camp building and air strip

EXHIBIT B

Large-scale map

(1) Claims on which DMEA work is proposed

(2) Location of various spots where exploratory work has been done by G.W.&G.

(3) Location and plat of proposed drifts and crosscuts.

EXHIBITS C1, C2, and C3

Enlargements of photographs showing ore in prospect

EXHIBITS D1, D2 and D3

Copies of assay reports on samples taken from prospect

EXHIBIT E

Copy of contract agreement under which property is held

EXHIBIT F

Copy of report on Aerial Scintillation Reconnaissance by Uranium Aerial Explorations

C
O
P
Y

URANIUM AERIAL EXPLORATIONS

215 Yucca Drive, NW
Albuquerque, New Mexico

November 2, 1954

Mr. Henry B. Leggett, Manager
Leghigh Valley Coal Corporation
Ore Mining Division
312 Newhouse Bldg.
Salt Lake City, Utah

Re: Aerial Scintillation Reconnaissance

During the period of October 25-30, 1954, inclusive, URANIUM AERIAL EXPLORATIONS conducted an aerial scintillation survey for the detection of radioactive mineralization in an unsurveyed area of Utah, south of Mt. Hillers and east and southeast of Mt. Ellsworth, between Shootering Creek Canyon and Bullfrog Canyon. The tract would fall within T35, 36 and 37 South, R 10 and 11 East, with a small tract at the southermost tip extending into T 38 S, R 10 E.

In the above designated area no indication of exposures of high grade radioactive mineralization were found other than the known deposits which are designated on the map as the "Julia" and "Lucky Strike". However, a number of points were recorded and noted on the map where increases of cps (counts per second) indicated higher than background radioactivity.

The greater number of the designated points are in the upper Morrison formation, up section from the ore horizon in which the Julia tunneling work is being done.

In Thompson Canyon no indications of mineralization were recorded in flights along the ore horizon of the canyon rim, except at point "E" (same place as I had a 2½ background), where a minor increase occurred. It is possible that this increase is derived from talus from the Upper Morrison member, where a higher increase was recorded directly above the slight increase of cps encountered during the canyon rim flights. Point "E" on map is used to designate both the increase at upper and lower levels, as the 200' contour interval does not allow for closer pin-pointing.

Points "A", "B", and "C" are on the first bench level below the Dakota rim, in the Upper Morrison member where the mineralized tree trunks have been found in ground checking. This is considerably above the ore horizon in elevation and up section geologically. It is possible that the points of increase at "A", "B" and "C" may be attributable to mineralization concentrated in exposed tree trunks.

Point "D" represents a high point within a high background area and appears to eminate from a thin sandstone layer at the base of a mud or siltstone layer in the Upper Morrison. The mud

or siltstone is of grey and purplish coloring, and wherever it is exposed throughout the entire area produces a high background. It is up section from the ore horizon, being just below the Dakota rim. All of the points, "L", "P", "N", "V", "W", "Y" and "Z" were recorded in this particular section of the Morrison. The increases of cps recorded are not indicative of high grade ore exposures, but may be representative of either minor concentrations (such as tree trunk depositions) or the accumulative effect of a large cone of reception of only slightly higher than background radioactivity.

From aerial checking it was not possible to determine definitely the source of Point "C", but it appeared to be in the ore horizon. However the increase is of such low intensity that it does not appear to indicate an exposure of significance.

The increase at Point "K" (only reading in Bulfrog Canyon) appears to originate at the base of the Summerville formation, down section from the ore horizon. Again no high grade deposition is indicated.

Points "H", "F", "I" and "J" appear from aerial checking to originate in or near the ore horizon. The increases in each instance are less than double background, however ground checking would be necessary to determine whether the low readings are due to very small exposures of high grade or to somewhat larger exposures of low grade - mineralization.

A random reconnaissance flight was made in the "V-W" area for the purpose of establishing the trend of ore horizon, if any major indications of mineralization were found. As previously indicated, this area produced increases only in the upper member of the Morrison.

This reconnaissance is not to be considered as a completely thorough and finished aerial survey, and does not preclude the possibility of high grade mineralization covered by over-burden. It establishes only that there is no significant exposure of radioactive mineralization in the area covered.

Most of the flight time was spent in concentrating on the ore horizon of the Morrison formation. Only that part of the Dakota ss, Entrada and Tununk Shale which was covered in circling incident to planned flights and during enroute flights was covered during reconnaissance.

Respectfully submitted

URANIUM AERIAL EXPLORATIONS

By: Evelyn J. Kethley

S/ Evelyn J. Kethley

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
APR 11 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. 3766
Metal or Mineral Uranium
Date Received 4-11-55
Estimated Cost $23,819.40
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: N. C. Ginther 1714 Nels Esperson Bldg., Houston 2, Texas
H. C. Warren 1714 Nels Esperson Bldg., Houston 2, Texas
W. L. Ginther 1714 Nels Esperson Bldg., Houston 2, Texas

(*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 six unpatented mining claim "Optimist 15" and five adjoining claims, Optimist #4, #5, #6, #14 and #16. See Exhibit 2 which accompanies this application

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

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

(*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. See Exhibit E

(*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. See supplemental sheets

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.

(See supplemental sheets for 4 (a)-(e).)

16—66551-1

(See supplemental sheets for 5 (a) - 6 (h).)

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

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

(*c*) The work will start within 10 days and be completed within 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.

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?

[X] 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 April 6, 1955

N. C. Ginther, H. C. Warren, W. L. Ginther
(Applicant)

By N. C. Ginther

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

H. F. McFARLAND
Denver, Colo.

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
APR 11 1955

SUPPLEMENTAL SHEETS

to accompany

APPLICATION FOR AID

in an

EXPLORATION PROJECT,

Pursuant to D.M.E.A. Order 1

Applicant: Ginther, Warren & Ginther

Honey Pot Project

3. Applicant's property rights

(e) The book and page numbers of each recorded location notice are as follows:

Location	Date	Book	Page
Optimist # 4	May 14, 1954	26	130
(Amended Location)	March 24, 1955	68	34
Optimist # 5	May 14, 1954	26	131
(Amended Location)	March 24, 1955	68	35
Optimist # 6	May 14, 1954	26	132
(Amended Location)	March 24, 1955	68	36
Optimist # 14	March 24, 1955	68	44
Optimist # 15	March 24, 1955	68	45
Optimist # 16	March 24, 1955	68	46

4. Physical description

(a) Exploration operations which have been or now are being done upon the land are as follows:

(1) During the period July 1 to September 30, 1954 the Honey Pot Uranium Corporation prospected in the lower end of Thompson Canyon and in Hansen Creek directly above its confluence with Thompson Canyon. This prospecting consisted of some six drifts into the cliff faces and of cuts in favorable areas. Although areas of high count were encountered in several instances, no ore was found.

The Honey Pot Company also mined seven tons of fossilized tree trunks in upper Thompson Canyon. These showed considerable carotite stain. The value on analysis at the Climax Mill was 0.05% U_3O_8, not high enough to be commercial.

(2) An air borne radiometric survey of the entire area was made by Uranium Aerial Explorations of 215 Yucca Drive, N.W., Albuquerque, New Mexico, working under contract for the Lehigh Valley Coal Corporation. This survey, made during the period October 25-30, 1954, located some 21 radiometric anomolies on the property. The report of the survey, together with the accompanying map, was turned over to the present operators upon the expiration of the

4. Physical description, continued

Lehigh Valley option in December, 1954. The radiometric anomolies located in this survey are shown on Exhibit A. A copy of the report appears as Exhibit F.

(3) The air borne radiometric survey mentioned in (2) above was checked, extended and intensified by Ginther, Warren & Ginther during the period December, 1954 to February, 1955. The anomolies located in both surveys were verified by ground examination and those which had no values, such as anomolies caused by a mass effect of low value shale or sandstone were eliminated. After consideration of the most favorable anomolies left, a compressor, tractor and dozer, air drill slusher hoist, and other mining equipment were put in action, and the more favorable areas were explored more intensively by means of drifts, cuts, trenches, and exposures on the cliff faces.

The first exploration was in the form of drifts on three separate faults, one major and two sympathetic, at the confluence of Thompson and Hansen Creeks near the location marked NE on Exhibit B. These faults all showed considerable mineralization, mostly iron, and some radiometric count. Drifts four to eight feet failed to show any increase in the radiometric count or any increase of

4. Physical description, continued

uranium mineralization and they were abandoned.

Next the cliff face was blasted at the location marked "Mine Portal" on Exhibit B, on the strength of high radiometric count at the surface. After the first blast, the count showed an increase, and one exposed zone four feet in length by three inches in thickness gave radiometric values in uranium on the order of 0.03 per cent U_3O_8. After the second blast, this zone had increased to about eight inches in thickness and some ten feet in length. A wet assay by Charles O. Parker & Co. of Denver, gave an U_3O_8 content of 0.282% U_3O_8 and a vanadium content of 3.28%. (See Assay, Exhibit D1) When the next blast was removed, it was found that the mineralization had disappeared. Also, the overhanging sandstone was fractured and broken to such an extent that it was necessary to remove some ten feet of the cliff for a height of thirty feet and a width of forty feet before it was safe to continue the prospecting.

After the fractured rock had been removed, drifting was again resumed on one small spot that still had radiometric count. The count increased until there was again a showing of ore which again disappeared except for a

4. Physical description, continued

small stringer. This count was again followed, developed and again decreased. This process had continued until there is now a drift thirty feet into the cliff which shows areas of high count along the walls. Near the face are two zones that show assays of uranium and vanadium, as follows:

		U_3O_8	V_2O_5
February 14, 1955 -	Sample 6" wide across face, 7 ft. long	0.182%	0.34%
February 21, 1955 -	AM1, Zone on left wall 1' wide, 4 ft. long	0.168%	0.49%
February 21, 1955 -	PM2, Zone on left wall 3" wide, 2 ft. long	0.377%	0.72%

Copies of these assays are included with this application as Exhibits D2 and D3.

Three other areas of high count were investigated by means of blasting off the weathered face of the cliff and pushing off the broken rock with a dozer. They failed to show the anticipated increase in count, and were abandoned. They are shown on Exhibit B as 2, 3 and 5.

The work described above was done and paid for in total by Ginther, Warren & Ginther, (except for the work done by Honey Pot Uranium Company and Lehigh Valley), during the period November 10, 1954 to March 1, 1955.

4. Physical description, continued

The workings and zones of enrichment are accessible for examination. Check samples may be taken at the same locations as those taken February 14 and 21, copies of which are enclosed.

(b) There has been no past, and is no current production. There are no ore reserves.

(c) Geological Features

The Morrison formation (upper Jurassic) is the outstanding feature of the property. In this area it has an over-all thickness of some 600 feet. It is divided into two members. The upper member, known as the Brushy Basin, is some 100 feet in thickness. It is composed predominantly of purple, red, green, gray, and white shale beds with a few indefinite sandstone beds. The lower member, known as the Salt Wash, is some 500 feet in thickness. It consists of massive beds of sand from 4 to 40 feet in thickness separated by comparatively thin beds of shale and mudstone.

The claims subject to this application cover the Salt Wash member over its entire section, from its contact with the Sommerville at the bottom to the Brushy Basin on top.

From all observations to date, indications are

4. Physical description, continued

that the most favorable ore horizon is in the lower portion; to be more precise, in the second massive sandstone member above the Salt Wash - Sommerville contact. This is substantiated by the following facts:

(1) Production from the Ecker Mine, which adjoins the property on the east, comes exclusively from this horizon.

(2) Radiometric highs occur consistently along this horizon.

(3) The ore exposed in the target area is at this horizon.

TYPE OF DEPOSIT

The mineralization as indicated by the assays of ore showing on claim Optimist 15 and by production on the Ecker property previously mentioned are the carnotite mineralization type of deposit in association with carbonaceous trash. The assays show uranium-vanadium values to as much as 0.3 per cent of the first mentioned and 3.3 per cent in the case of vanadium (see assays, Exhibits D1, D2, and D3.).

The occurrence is in the form of horizontal irregular pods, parallel to but not necessarily in the

E. F. Hertling
Engineer, Denver, Colo.

4. Physical description, continued

bedding planes. On the basis of experience on the adjacent property, deposits would tend to be small and high-grade.

The grade of ore from this adjacent property is about 2 per cent of U_3O_8 averaged over a year's production.

The reasons for wishing to explore are:

(1) All indications are that there is a good possibility of extending and increasing the present discoveries of ore into sufficiently large bodies to be of economic importance. These indications are, first, the favorable geological conditions; second, the fact that there is at present ore of economic grade exposed; and thirdly, the proximity to present production.

(2) Commercial deposits can be located <u>only</u> by underground exploration. Experience in the Salt Wash formation in general, and in the specific area under consideration, is that the mineralization is leached out near the surface. This fact

E. F. HOLMES
Technical Report 6010

4. Physical description, continued

has further been verified by radiometric observations, both airborne and on the ground, in proximity to known deposits on the Ecker property.

Included herewith under supplemental date is a copy of an airborne radiometric survey of the general area made by Uranium Aerial Explorations of Albuquerque, New Mexico, during the period of October 25-30, 1954. Radiometric anomolies made on the ground on the claims under discussion are shown on Exhibit B at points 2, 3, 4, 5, 6, and 7. They are discussed in more detail under application heading 4 (a), Physical Features.

(d) Accessibility

The property is accessible by road from Hanksville, Utah (which is 60 miles south of Green River, Utah, over a graveled road). From Hanksville an improved road runs southeasterly fifty miles to Hansen Creek, which is the northern extremity of the Honey Pot holdings (see Exhibit A). An unimproved road follows down Hansen Creek to the claims under consideration.

Ginther, Warren and Ginther have planes available and will be pleased to make these available to the examin-

4. Physical description, continued

ing engineers. There is a landing strip within less than one-quarter mile of the target area. If this arrangement were used, it would simplify the transportation problem.

The distance to the shipping point, Green River, Utah, is 120 miles. Green River is also the nearest supply and residence point. Men are quartered in a building on the property located at the point marked "camp" on Exhibit A.

(e) Availability

Manpower is available in the general area at Green River, 120 miles distant, and at Grand Junction, which is some 240 miles distant.

Materials, supplies, and equipment are available in ample amounts at Grand Junction, Colorado.

Water, other than that for domestic use, is available on the property, with a small amount of development, such as dozing out pits in the streambed. Domestic water must be hauled from Star Springs, ten miles away.

There is no electric power available.

5. THE EXPLORATION PROJECT

(a) Uranium

(b) The proposed work consists of 600 feet of drift 5 x 7 in cross section. This drifting to consist of one main drift driven in a southerly direction 300 feet from the present strike (at the location marked "Mine Portal" on Exhibit 2) with right-angle crosscuts some fifty feet in length driven on alternate sides of the main drift on 50-foot centers. All the above-mentioned drifts is to be on that level which is considered to be the most favorable ore horizon, that is, the botton of the second massive sandstone bed above the Salt Wash - Sommerville contact. This is the horizon from which the production is now coming in the Ecker mine, which is immediately adjacent to the Honey Pot property on the east.

(c) The work will start within 10 days and be completed within six months from the date of an exploration project contract.

(d) Applicants are independent oil operators with experience in geological and geophysical exploration, drilling, and production of oil and gas wells,

5. The Exploration Project, continued

construction and operation of natural gasoline and liquid petroleum gas plants, construction and operation of oil and gas pipe lines, dehydration plants, compressor stations, and similar facilities.

The resident supervisor will be R. A. Warren. The consultant will be H. F. MacFarland.

Experience and background of R. A. Warren: Experienced in geological mapping, core and placer drilling, gold dredge construction, supervisor in connection with oil and gas well drilling, oil production, and in airborne radiometric surveys.

Experience and background of H. F. MacFarland:

Education:

Graduate Colorado School of Mines, E. M. degree, 1932.

Graduate work Howard University, 1933-1934, and Colorado School of Mines, 1942-1943.

Experience:

1934-1937--Chief Engineer Cerrode Pasco Copper Corporation, Morococha Division, Peru, South America.

H. F. MacFarland
Engineer, Denver, Colo.

5. The Exploration Project, continued

1937-1940--Surveyor, West Rand Consolidated Mines, Johannesburg, Transvaal, Union of South Africa.

1940-1942--Consulting Engineer, Coal operations in Colorado and Wyoming.

1942-1943--Instructor in Mining Engineering, Colorado School of Mines, Golden, Colorado.

1944-1955--Consulting Engineer, practicing in Colorado, Utah, Wyoming and New Mexico.

6. ESTIMATE OF COSTS

(a) Independent contracts -- none.

(b) Labor, Supervision, Consultants

It is proposed to use four men and a supervisor on the project, to work five shifts per week. The labor cost per shift would be:

? 4 miners, 8 hours per shift, $2 per hour	$ 64.00
1 supervisor, $600 per mo., (25 shifts per mo.)	24.00
Consultant's services, $300 per mo.	12.00
	100.00

It is estimated that the average advance per foot will be 4.5 feet per round. Dividing the cost per round

?

6. Estimate of Costs, continued

by the advance per round, the estimated cost per foot of tunnel is:

Labor cost, $100 ÷ 4.5 feet equals	$22.23	per ft.
(c) Operating Materials and Supplies		
1. Powder, fuse and caps		
Per round, $12.00	2.67	per ft.
$12.00 ÷ 4.5 feet equals		
2. Gas and Oil for Compressor		
Per shift $8.00; $8 ÷ 4.5 feet	1.78	per ft.
3. Bits and steel rehabilitation, shovels,		
picks, $5.00 per round ÷ 4.5 feet	1.12	per ft.

(d) Operating Equipment and Supplies

Compressor and Drill

Now on property on rental from Western Machinery Company, Grand Junction, Colorado.

1 125 Jeager gasoline driven compressor

1 Thor compressed air drill with jackleg

Rental on both, $330.00 per month

$330.00 ÷ 25 shifts per month equals $13.20 per shift

$13.20 - 4.5 (feet per shift) equals	2.94	per ft.

6. Estimate of Costs, continued

Rails, ties, and pit cars

400 feet trackage, 2 pit cars

Estimated cost plus transportation less

estimated resale value $600.00 ÷ 600 feet 1.00 per ft.

Compressed air line 500 feet 2" pipe @ 40¢

$200.00 ÷ 600 feet .33 per ft.

(e) Rehabilitation and Repairs

No necessary rehabilitation required on buildings or equipment.

(f) New Buildings

No new buildings proposed.

(g) Miscellaneous

Estimated repairs on compressor, drill, drill steel, $400.00 $400 ÷ 600 feet 0.66 per ft.

Analytical work, 50 assays @ $7 per sample

$350.00 ÷ 600 feet 0.58 per ft.

Accounting to be done by project supervisor

Workmen's Compensation and Employees' Liability Insurance, Rate $6.00 per $100.00 payroll

Payroll $13,338.00 x $6.00 equals $800.28

6. Estimate of Costs, continued

Payroll Taxes

2% on $13,338.00 payroll	$ 266.76	
Total above	$1,067.04	
$1,067.04 ÷ 600 feet equals		1.78 per ft.
Cost per foot of drifting		$36.09 per ft.

35.09

Total footage of project, 600 feet

Cost of project before contingencies

600 feet at $36.09 per $21,654.00

(h) Contingencies

10% allowance for contingencies $2,165.40

Estimated total cost of project $23,819.40

Estimated total cost per foot $39.70

TABLE OF EXHIBITS

EXHIBIT A

Map showing

(1) Area in which property is located

(2) Airborne Radiometric Anomalies

(3) Camp building and air strip

EXHIBIT B

Large-scale map

(1) Claims on which DMEA work is proposed

(2) Location of various spots where exploratory work has been done by G.W.&G.

(3) Location and plat of proposed drifts and crosscuts.

EXHIBITS C1, C2, and C3

Enlargements of photographs showing ore in prospect

EXHIBITS D1, D2 and D3

Copies of assay reports on samples taken from prospect

EXHIBIT E

Copy of contract agreement under which property is held

EXHIBIT F

Copy of report on Aerial Scintillation Reconnaissance by Uranium Aerial Explorations

2114 CURTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6355

H. F. McFarland,
1861 So. Corona,
Denver, Colo.

Date Dec. 27, 1955.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
Sample:	0.282%	3.28%					

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ ~~paid.~~

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

2114 CURTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6382

Date Feb. 14, 1955.

H. P. McFarland,
1861 So. Corona St.,
Denver, Colo.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
Sample:	Uranium oxide (U_3O_8) 0.12%			Vanadic acid (V_2O_5) 0.34%			

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ 7.00

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

2114 CURTIS STREET

TELEPHONE MAin 3-1852

[redacted]

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 5 COLORADO

"URANIUM CENTER"

Folio 6387

Date Feb. 21, 1955.

H. F. McFarland,
1861 So. Corona St.,
Denver, Colo.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	URANIUM OXIDE U_3O_8	VANADIUM PENTOXIDE V_2O_5	LIME $CaCO_3$	RADIOMETRIC EQUIVALENT eU	THORIUM OXIDE ThO_2	TOTAL RARE EARTHS	COMBINED COLUMBIUM TANTALUM OXIDES
AU 1	0.168%	0.49%		0.14			
PU 2	0.377%	0.72%		0.32			

PLEASE PAY FROM THIS INVOICE AS NO OTHER STATEMENT WILL BE MAILED. THANK YOU.

Charge $ 14.00

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

MINING LEASE

THIS AGREEMENT OF LEASE, Made and entered into this 3rd day of November, 1954, by and between HONEY POT URANIUM CO., a Colorado corporation, and CARTEL URANIUM CORPORATION, a Colorado corporation, hereinafter called "Lessors," and N. C. GINTHER, H. C. WARREN, and W. L. GINTHER, whose address is Esperson Building, Houston, Texas, their heirs and assigns, hereinafter called "Lessees";

WITNESSETH, That

The Lessors for and in consideration of $3,000.00 by the Lessess paid to the Lessors, receipt of which is hereby acknowledged by the Lessors, and of the rents, royalties, covenants and agreements hereinafter expressed to be paid, kept and performed by the Lessees, have leased, let and demised unto the Lessees those certain mining properties and premises situated in Garfield County, Utah, consisting of 527 unpatented mining claims held by right of location and continued occupation, the descriptions of which are set forth in the respective location certificates thereof, which location certificates are recorded in the public records of said Garfield County; and being those mining claims which, with the book and page of the record of their respective location certificates, are listed in Schedule A hereto annexed. The rights granted are subject to any existing easements and rights-of-way; and to all terms of United States Patents to be issued to said property; and there is expressly excluded herefrom any portion of the above described unpatented mining claims which may be deeded, relinquished or lost to the Lessors in settlement of conflicts; and the Lessors make no warranty of title or covenant of quiet enjoyment with respect to said mining claims.

TO HAVE AND TO HOLD the above described premises for a period of 20 years from the date hereof, unless this lease be forfeited or terminated as hereinafter provided.

The parties, in consideration of the premises, have covenanted, contracted and agreed, and by these presents do covenant, contract and agree:

1. Relationship of Parties.

The relationship of the parties hereto is exclusively that of lessors and lessees, and no relationship of partner, joint adventurer, or otherwise than lessors and lessees, is intended to be or is created by this agreement; there shall be no privity of contract between the Lessors and any of the employees, licensees, contractors, subcontractors, or sublessees of the Lessees, and all prospecting, development and mining operations hereunder shall be under the sole and exclusive control of the Lessees.

2. Operations by Lessess.

Lessees shall have the right to work and operate on any and all of the demised property, to mine, extract, take and market ores and minerals therefrom, sell or otherwise dispose of the same, and receive the full proceeds therefrom; to treat said ores and minerals in a mill or plant on said property, and to ship or take same to any other plant for treatment, reduction or sale; to erect and operate on said property a plant or plants and other facilities for mining, treating, or processing of ores and minerals from said property, or other properties, and for processing of the content thereof into any obtainable products; and generally to do any and all things, which Lessees may deem desirable in connection with the operation of the property. The Lessees shall have the full right of ingress and egress over, under or through the demised property for prospecting, mining, ventilating and draining adjacent or contiguous land operated by Lessees, and Lessees or any person, firm or corporation working by or under Lessees, or purchasing ore from Lessees, shall have the right to place dumps or other debris on the premises and Lessees shall have the right, at their election and upon giving Lessors notice of their desire so to do, to mine ore from the demised premises through or from adjacent or contiguous premises owned by or held under lease by the Lessees.

3. Work Requirements and Payments.

The Lessees shall promptly enter upon said properties and commence the prospecting thereof by such methods as they deem

H. F. Reynolds
Pagosa Springs, Colo.

advisable, and shall thereafter prospect and mine said property with reasonable diligence as a prudent mine operator would do under the same or similar conditions.

Anything to the contrary herein notwithstanding, this lease shall terminate on December 31, 1954, unless the Lessees shall on or before said date pay to the Lessors the sum of $10,666.00; provided, that any royalties paid to Lessees between the date hereof and the close of business on December 31, 1954 shall be credited as partial payment of said sum; but if the aggregate amount of royalties paid during said period exceeds $10,666.00, such excess shall be retained by the Lessors free of any claims by the Lessees.

Anything to the contrary herein notwithstanding, this lease shall terminate on March 1, 1955, unless the Lessees shall on or before said date pay to the Lessors the further sum of $10,666.00; provided, that any royalties paid to the Lessees between December 31, 1954 and March 1, 1955 shall be credited as a partial payment of said sum; but if the aggregate amount of royalties paid during said period exceeds $10,666.00, such excess shall be retained by the Lessors free of any claims by the Lessees.

Anything to the contrary herein notwithstanding, this lease shall terminate on May 15, 1955, unless the Lessees shall on or before said date pay to the Lessors the further sum of $10,667.00; provided that any royalties paid to the Lessees between March 1, 1955 and May 15, 1955 shall be credited as a partial payment of said sum; but if the aggregate amount of royalties paid during said period exceed $10,667.00, such excess shall be retained by the Lessors free of any claims by the Lessees.

Prospecting, development work, and mining shall be done by such methods and at such places as Lessees shall deem advisable; provided, however, that if Lessees shall have made the payments required to be made as aforesaid, they shall prior to July 1, 1955, do or make, or cause to be done or made, work or improvements of sufficient value on or for the benefit of each unpatented mining claim covered by this lease, as will when added to the value of the work and improvements heretofore done by the Lessors (estimated to be of a value of not less than $30,000) amount in the aggregate to the value of at least $100.00 per claim.

After July 1, 1955, the Lessees shall, during each annual period for the doing of assessment work, do or make, or cause to be made and performed, work or improvements of sufficient value on or for the benefit of each unpatented mining claim covered by this lease, or which shall hereafter become included thereunder, to preserve the possessory right of the Lessors; provided, however, that the Lessees shall have the continuing right to surrender this lease as to any claim at any time more than four months prior to the end of the period for the doing of such assessment work, and by such surrender shall be relieved from the performance of assessment work on the claim or claims so surrendered; and provided further, that the requirement of doing assessment work shall cease as to any claim when application for United States Patent therefor shall have been made and a Manager's Final Receipt, or its equivalent, has been issued and delivered to the applicant by the Bureau of Land Management or other authorized agency of the federal government.

Lessees shall seasonably furnish to Lessors sufficient information concerning assessment work done as will enable Lessors to seasonably file affidavits concerning the same in the public records.

The Lessees shall work the demised premises in mine fashion and manner consistent with good and economical mining, and with due regard to the preservation thereof as workable mining properties.

The Lessees shall well and sufficiently timber all workings through which they work, in accordance with good and safe mining practice, and shall keep drifts, shafts and other workings through which they shall work, drained and cleared of loose rock and rubbish unless prevented by extraordinary mining casualty. The Lessees shall have the right to abandon any workings whenever, in their opinion, ore is exhausted or further mining would be unprofitable.

After operations hereunder shall have been commenced by the Lessees, the suspension of actual operations of prospecting, dedeloping and mining, for a period of 90 consecutive days shall, at the option of the Lessors as hereinbelow provided, and the mere keeping of watchmen or caretakers at the premises shall not be sufficient to maintain this lease in force and effect.

4. Unpatented Claims.

The Lessees shall promptly notify the Lessors in writing of any acts of third parties which in Lessees' opinion might adversely affect any of the titles of the Lessors but the Lessees assume no obligation to protect or defend said titles, or any of them, against any claims of third persons.

The Lessees shall have the right, at their option, after thirty (30) days written notice to the Lessors, to make application, at Lessees' expense, for patent to all or any of said unpatented claims, in the name of the Lessors, and if such notice be given, Lessors shall promptly furnish to Lessees proper authority to enable the Lessees to proceed. Lessees shall not be entitled to reimbursement for such patenting expense.

5. Information and Reports.

The Lessees shall at all times have sufficient surveys and maps made and kept to disclose the location of test holes and the nature and location of underground workings. All information obtained by drilling shall be the exclusive property of the Lessees, but shall be furnished to the Lessors upon the happening of any of the following:

(a) As to claims which may be surrendered, promptly after the date of surrender.

(b) After patent application has been made and "Manager's Final Receipt" or its equivalent, has been issued and delivered by the Bureau of Land Management, the Lessees shall promptly disclose to Lessors to the best of Lessees' information, the nature, quality, thickness and extent of all mineral bearing deposits encountered within the patented ground.

(c) If this lease be terminated by surrender, cancellation, or by expiration of the term, the Lessees shall make disclosures as provided in the preceding paragraph (b), and in such case shall also deliver to Lessors the maps hereinabove mentioned, or copies thereof.

(d) By agreement of the parties.

6. Royalty

Lessees shall pay Lessors as royalty on all ores and minerals extracted from the demised premises and sold, 10% of the returns received therefrom. By "returns received therefrom" is meant the gross sales price, plus all bonuses, and plus all allowances except haulage allowances. The Lessees shall request each ore purchaser to supply to Lessors upon settlement for each lot sold, a copy of the settlement statement for such lot.

Royalties shall be paid on a monthly basis, as soon as accounting for the same shall be accomplished, and each payment shall be accompanied by a statement showing the items constituting said payment.

7. Records and Inspection.

The Lessees agree that they will keep and maintain correct and complete books of account and records showing truthfully and accurately and in reasonable detail the amount of all minerals or ores mined and sold from the demised premises; the names and addresses to whom shipments of product are made; any and all returns received therefrom, including bonuses and allowances, and all other particulars necessary and proper for the true and accurate ascertainment of royalties. To enable the Lessors to be currently informed and assured as to the correctness of the statements of account to be rendered by the Lessees from time to time as herein provided, the accredited representative of the Lessors at all reasonable times shall have full and free access to the property and to the plants on the property handling the ores, at the sole risk and expense of the Lessors, and also the right to inspect and audit all such records and books of account kept by the Lessees relating to ores and minerals mined and sold; and to inspect, check, and if deemed advisable or desirable, make copies of or extracts from, all reports, records, memoranda, books of account, ore returns or other documents, vourchers, or memoranda relating to ores and minerals mined and sold; provided, however, that such inspection, audit, checking and copying shall not unreasonably interfere with the business requirements of the Lessees.

E. F. LEHMANN
Engineer, Denver, Colo.

The provisions of this paragraph do not apply to drilling records, drill cores, or logs, as to which the provisions of Paragraph 5 shall apply.

8. Taxes.

The real estate and production taxes shall be paid by the Lessees. For the security and payment of such taxes, the Lessees shall each month deposit in International Trust Company, Denver, Colorado, in a savings account subject to withdrawals upon joint order of the Lessees and an agent of the Lessors, 2% of the returns received from ores and minerals, computed in the same manner as hereinabove provided for computing percentage royalty. The money deposited in any calendar year shall be used for the payment of taxes for that calendar year, and any excess of deposits in any calendar year shall, after taxes for that calendar year are paid, be promptly withdrawn and paid over to the Lessees. If the amount so deposited in any year is not sufficient to pay, as aforesaid, the full amount of taxes, the Lessees shall promptly, upon request of the Lessors, pay to the Lessors or to the tax collecting authority, the amount of such deficiency.

The Lessees shall pay all taxes on their own personal property and on any plant or plants erected on the demised premises by them, and shall also pay any occupational tax assessed by reason of their operations.

9. Visitation.

The Lessors, or the authorized representative of either of them, may enter said property at all reasonable times for the purpose of inspecting the same, and Lessees shall facilitate such inspection in every reasonable way; but the representatives of the Lessors shall enter upon said demised property at Lessors' own risk and so as not to hinder unreasonably the operations of the Lessees and the Lessors shall indemnify and hold harmless the Lessees from any damage, claim or demand by reason of injury to or the presence of Lessors' licensees, agents or representatives, or any of them, on the demised premises or approaches thereto.

Photocopy Company, Colo.

10. Liens.

Lessees shall keep the demised premises free and clear of labor and material liens and encumbrances created by reason of their operations, and shall keep posted in a conspicuous place a written or printed notice that the premises are leased to and operated by Lessees and that the interest of Lessors shall not be subject to liens by reason of Lessees' operations. This provision of this paragraph relates only to real estate and not to movable machinery or equipment used on the property.

11. Compliance with Law.

Lessees shall conduct their operations in accordance with the laws of the United States of America and of the State of Utah, and any subdivision of either, now in force or hereafter enacted, and all valid rules, requirements and regulations thereunder. Lessees shall comply with the Workmen's Compensation Law of Utah, and the Labor Relations Act of Utah, and with the Social Security Act, Unemployment Insurance, and all of the State and Federal laws relating to Lessees' operations hereunder.

12. Additional Claims

It is anticipated that the Lessors or the Lessees, or some of them, may desire to locate additional mining claims within that certain area bounded on the west by Halls Creek, on the South by the boundary line between Garfield and Kane Counties, on the east by the Colorado River and on the north by an east-west line passing through Thompson's Seep. Any additional mining claims located by any of the parties to this agreement or by any assignee of a party, or by any person acting in behalf of or for the benefit of such party or such assignee, during the period in which this lease is in force and effect, shall be and become a part of the leased premises and subject to all of the terms and provisions of this lease.

It is understood that Honey Pot Uranium Co., under date August 9, 1954, granted to John W. Shireman a lease covering 47 unpatented mining claims situate within the area described in the preceding paragraph, which lease has been assigned to and is now held by Lehigh Valley Coal Corporation, a Delaware corporation.

It is understood and agreed that in the event that said lease be surrendered or cancelled at any time while this lease is in force and effect as to all or any part of the claims covered thereby, the claims so released from the provisions of the lease held by said Lehigh Valley Coal Corporation shall immediately be and become a part of the premises leased hereunder, and subject to all the terms and provisions of this lease.

13. Termination by Default.

The failure of the Lessees to make or cause to be made any of the payments herein provided for or to keep or perform any agreement or condition on their part to be kept or performed according to the terms and provisions of this lease shall, at the election of the Lessors, and upon giving notice thereof to the Lessees, constitute a forfeiture of this lease when declared; provided, however, that in the event of a default on the part of the Lessees, and the election of the Lessors to terminate this lease on account thereof, the Lessors shall give to the Lessees a written notice of their intention to declare a forfeiture of this lease and to terminate the same on account thereof, specifying the particular default or defaults relied upon by Lessors. The Lessees shall have thirty (30) days after receipt of such notice in which to cure such default or defaults, and if such default or defaults are fully cured within said period, there will be no forfeiture of this lease with respect to such default or defaults. No waiver of a default and no failure or neglect on the part of the Lessors to give notice of a default or defaults nor other failure to act shall affect any subsequent default or impair the Lessors' rights resulting therefrom.

14. Termination by Surrender.

The Lessees shall have the right to surrender and terminate this lease and be relieved from further obligations hereunder by giving the Lessors herein thirty (30) days' notice in writing of their intention so to surrender and terminate the same and paying to Lessors any sums due, including taxes apportioned to

date of surrender, and furnishing to said Lessors satisfactory evidence that all debts, claims and other obligations theretofore incurred by Lessees in the prospecting, operation, working, and development of said demised premises, or in placing of machinery or other improvements thereon have been fully liquidated; and thereupon at the expiration of said thirty (30) days, in consideration of such payment and the expenditures theretofore made by said Lessees under this lease, said Lessors shall and hereby do release said Lessee from any further demand or claim of any nature or kind whatsoever; provided, however, that if the surrender occurs after April first and prior to July first of any year, the Lessees shall complete the annual assessment work and improvements required for the period ending July first of that year.

15. Removal of Equipment.

Upon termination or surrender or upon forfeiture as herein provided, Lessees, upon payment of all sums accrued from them to Lessors, may within thirty (30) days from the date of termination or surrender, remove all machinery, tools and equipment placed in or upon the demised property by Lessees. All buildings, structures, and installed mine track, and installed air and water lines shall become the property of Lessors.

16. Force Majeure

It is agreed that this lease cannot be cancelled for or on account of damage, or delay resulting from disasters, labor disturbances, strikes, lockouts, force majeure or act of God, or from governmental or legal regulations or restrictions.

17. Renewal.

Lessees shall have the privilege of renewal of this lease for 20 years longer, provided the Lessees are not in default at the expiration of the term hereby granted, said renewal to be upon the same terms and conditions as this lease. If a renewal be made as aforesaid, then Lessees shall have the privilege of another renewal for an additional 20 year term, provided Lessees are not in default at the expiration of the term of the first renewal, such second renewal to be on the same terms and conditions as this lease.

18. Assignment.

Lessees shall have the privilege of assigning any fractional interest in the leasehold estate which does not result in separating the leased premises into separate parcels.

In case the Lessees shall sell and convey the entire leasehold estate, or convey a part less than the whole in such manner as will result in a separation of the premises into separate parcels, they agree to pay to the Lessors at the time of such sale or conveyance 10% of the net consideration or considerations received by them therefor.

19. Right to Discharge Liens.

The Lessees may, at their option, pay and discharge any liens existing or hereafter established against the leased premises by reason of operations of Lessors prior to the date hereof, and may reimburse themselves by applying any moneys due from them to the Lessors for royalty or otherwise.

20. Successors.

The terms hereof shall inure to the benefit of and be binding upon the heirs, personal representatives, successors and assigns of the respective parties.

IN WITNESS WHEREOF, the Lessors have caused their names to be hereto subscribed by their respective Vice Presidents, each thereunto duly authorized, and their respective seals to be hereunto affixed and attested by their respective Secretaries; and the Lessees have hereunto subscribed their names.

HONEY POT URANIUM CO.

By S/ Teller Ammons
Vice President

ATTEST:

S/ A. John Davis
Secretary

CARTEL URANIUM CORPORATION

By S/ Teller Ammons
Vice President

ATTEST:

S/ A. John Davis
Secretary

LESSORS

S/ N. C. Ginther
N. C. Ginther

S/ H. C. Warren
H. C. Warren

S/ W. L. Ginther
W. L. Ginther

LESSEES

Schedule A is to contain the names of the claims covered by this lease with the book and page where their location certificates are recorded. There will be the following:

Cartel Uranium Corporation

Cartel #1 to #200	200
Mickey Boy #1 to #10	10
Cartel Annex #1 to #20	20
Cartel #300 to #339	40
Hall Mesa Rim #1 to #39	39
Hall Mesa Rim #2A, #3A, #4A	3
	312

Honey Pot Uranium Co.

Goldie #1 to #20	20
Patricia #1 to #20	20
Mark #1 to #20	20
Wash #1 to #20	20
Mike #1 to #20	20
Cibola #1 to #20	20
I Block #1 to #30	30
Pessimist #1 to #20	20
Optimist #1 to #20	20
East Cove #1 to #25	25
	215

Schedule A, when prepared, is to be substituted for this page.

C
O
P
Y

URANIUM AERIAL EXPLORATIONS

215 Yucca Drive, NW
Albuquerque, New Mexico

DEPARTMENT OF
Defense Materials
APR 11 1955

November 2, 1954

Mr. Henry B. Leggett, Manager
Leghigh Valley Coal Corporation
Ore Mining Division
312 Newhouse Bldg.
Salt Lake City, Utah

Re: Aerial Scintillation Reconnaissance

During the period of October 25-30, 1954, inclusive, URANIUM AERIAL EXPLORATIONS conducted an aerial scintillation survey for the detection of radioactive mineralization in an unsurveyed area of Utah, south of Mt. Hillers and east and southeast of Mt. Ellsworth, between Shootering Creek Canyon and Bullfrog Canyon. The tract would fall within T35, 36 and 37 South, R 10 and 11 East, with a small tract at the southermost tip extending into T 38 S, R 10 E.

In the above designated area no indication of exposures of high grade radioactive mineralization were found other than the known deposits which are designated on the map as the "Julia" and "Lucky Strike". However, a number of points were recorded and noted on the map where increases of cps (counts per second) indicated higher than background radioactivity.

The greater number of the designated points are in the upper Morrison formation, up section from the ore horizon in which the Julia tunneling work is being done.

In Thompson Canyon no indications of mineralization were recorded in flights along the ore horizon of the canyon rim, except at point "E" (same place as I had a 2½ background), where a minor increase occurred. It is possible that this increase is derived from talus from the Upper Morrison member, where a higher increase was recorded directly above the slight increase of cps encountered during the canyon rim flights. Point "E" on map is used to designate both the increase at upper and lower levels, as the 200' contour interval does not allow for closer pin-pointing.

Points "A", "B", and "C" are on the first bench level below the Dakota rim, in the Upper Morrison member where the mineralized tree trunks have been found in ground checking. This is considerably above the ore horizon in elevation and up section geologically. It is possible that the points of increase at "A", "B" and "C" may be attributable to mineralization concentrated in exposed tree trunks.

Point "D" represents a high point within a high background area and appears to eminate from a thin sandstone layer at the base of a mud or siltstone layer in the Upper Morrison. The mud

or siltstone is of grey and purplish coloring, and wherever it is exposed throughout the entire area produces a high background. It is up section from the ore horizon, being just below the Dakota rim. All of the points, "L", "P", "N", "V", "W", "Y" and "Z" were recorded in this particular section of the Morrison. The increases of cps recorded are not indicative of high grade ore exposures, but may be representative of either minor concentrations (such as tree trunk depositions) or the accumulative effect of a large cone of reception of only slightly higher than background radioactivity.

From aerial checking it was not possible to determine definitely the source of Point "O", but it appeared to be in the ore horizon. However the increase is of such low intensity that it does not appear to indicate an exposure of significance.

The increase at Point "K" (only reading in Bulfrog Canyon) appears to originate at the base of the Summerville formation, down section from the ore horizon. Again no high grade deposition is indicated.

Points "H", "F", "I" and "J" appear from aerial checking to originate in or near the ore horizon. The increases in each instance are less than double background, however ground checking would be necessary to determine whether the low readings are due to very small exposures of high grade or to somewhat larger exposures of low grade - mineralization.

A random reconnaissance flight was made in the "V-W" area for the purpose of establishing the trend of ore horizon, if any major indications of mineralization were found. As previously indicated, this area produced increases only in the upper member of the Morrison.

This reconnaissance is not to be considered as a completely thorough and finished aerial survey, and does not preclude the possibility of high grade mineralization covered by over-burden. It establishes only that there is no significant exposure of radioactive mineralization in the area covered.

Most of the flight time was spent in concentrating on the ore horizon of the Morrison formation. Only that part of the Dakota ss, Entrada and Tununk Shale which was covered in circling incident to planned flights and during enroute flights was covered during reconnaissance.

Respectfully submitted

URANIUM AERIAL EXPLORATIONS

By: Evelyn J. Kethley

S/ Evelyn J. Kethley

Close-up of original strike
Assay Exhibit D1 taken at location marked by point of pick

EXHIBIT C2

H. F. McFARLAND
Engineer, Denver, Colo.

Roll or stream channel shown on Exhibit B as location 3. Point of pick indicates high count area in bottom of channel.

EXHIBIT C3

H. F. McFARLAND
Engineer, Denver, Colo.

EXHIBIT C1

View of original strike marked "Mine Portal" on Exhibit B
Man is pointing to mineralized area

H. F. McFARLAND
Engineer, Denver, Colo.

DEPARTMENT OF THE INTERIOR
Bureau of Mines, Philadelphia
APR 11 1955

EXHIBIT C1

View of original strike marked "Mine Portal" on Exhibit B
Man is pointing to mineralized area

Close-up of original strike
Assay Exhibit D1 taken at location marked by point of pick

EXHIBIT C2

H. F. McFARLAND
Engineer, Denver, Colo.

Roll or stream channel shown on Exhibit B as location 3. Point of pick indicates high count area in bottom of channel.

EXHIBIT C3

H. F. McFARLAND
Engineer, Denver, Colo.

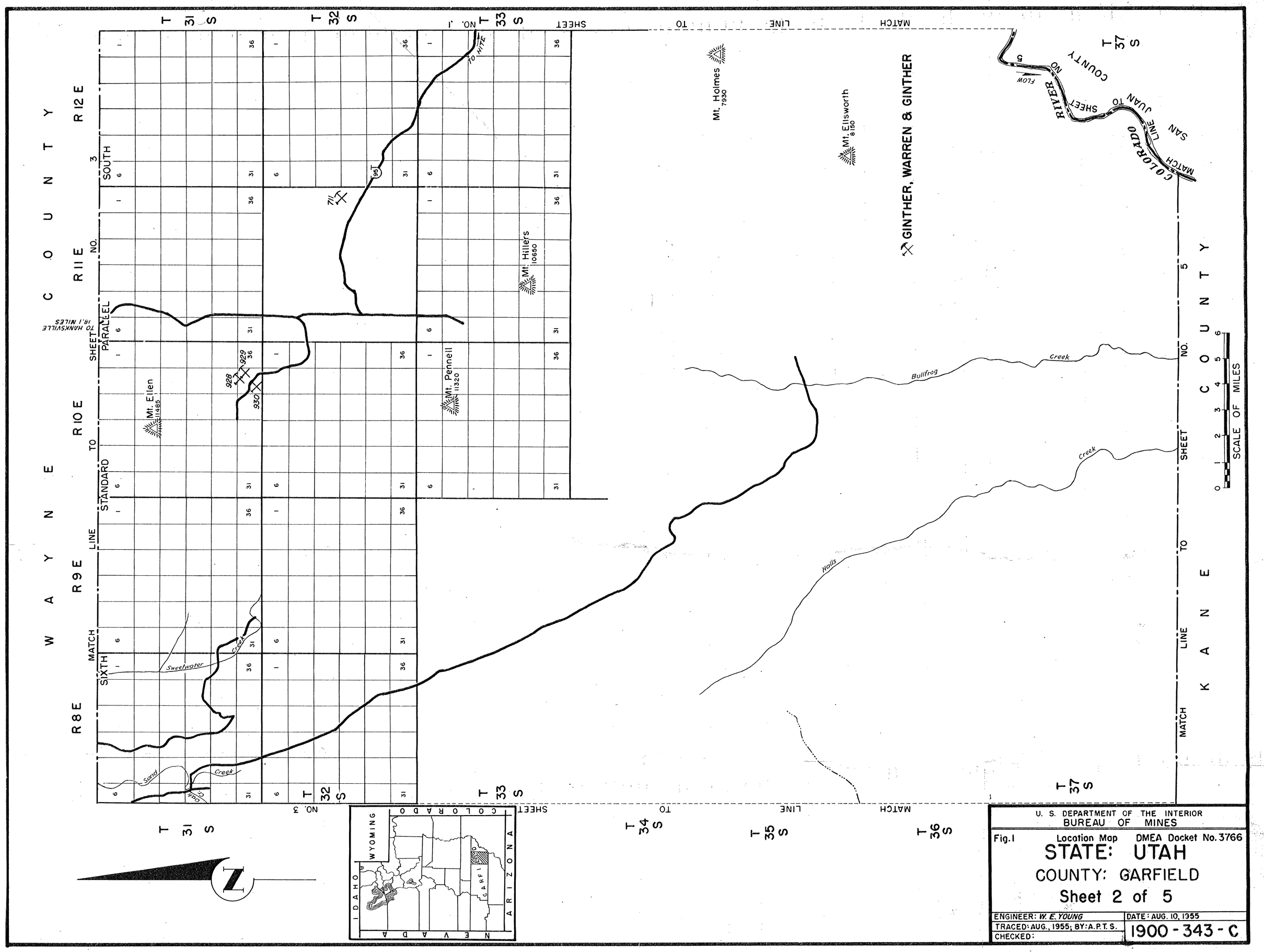
NEW CUSTOMHOUSE
~~DENVER 2, COLORADO~~

OFFICIAL BUSINESS

DENVER
JUL
12
5 PM
1954
COLO.

5 CE

Defense Minerals Exploration Administration
U.S.Dept. of the Interior
Interior Bldg.
Washington 25, D.C.



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

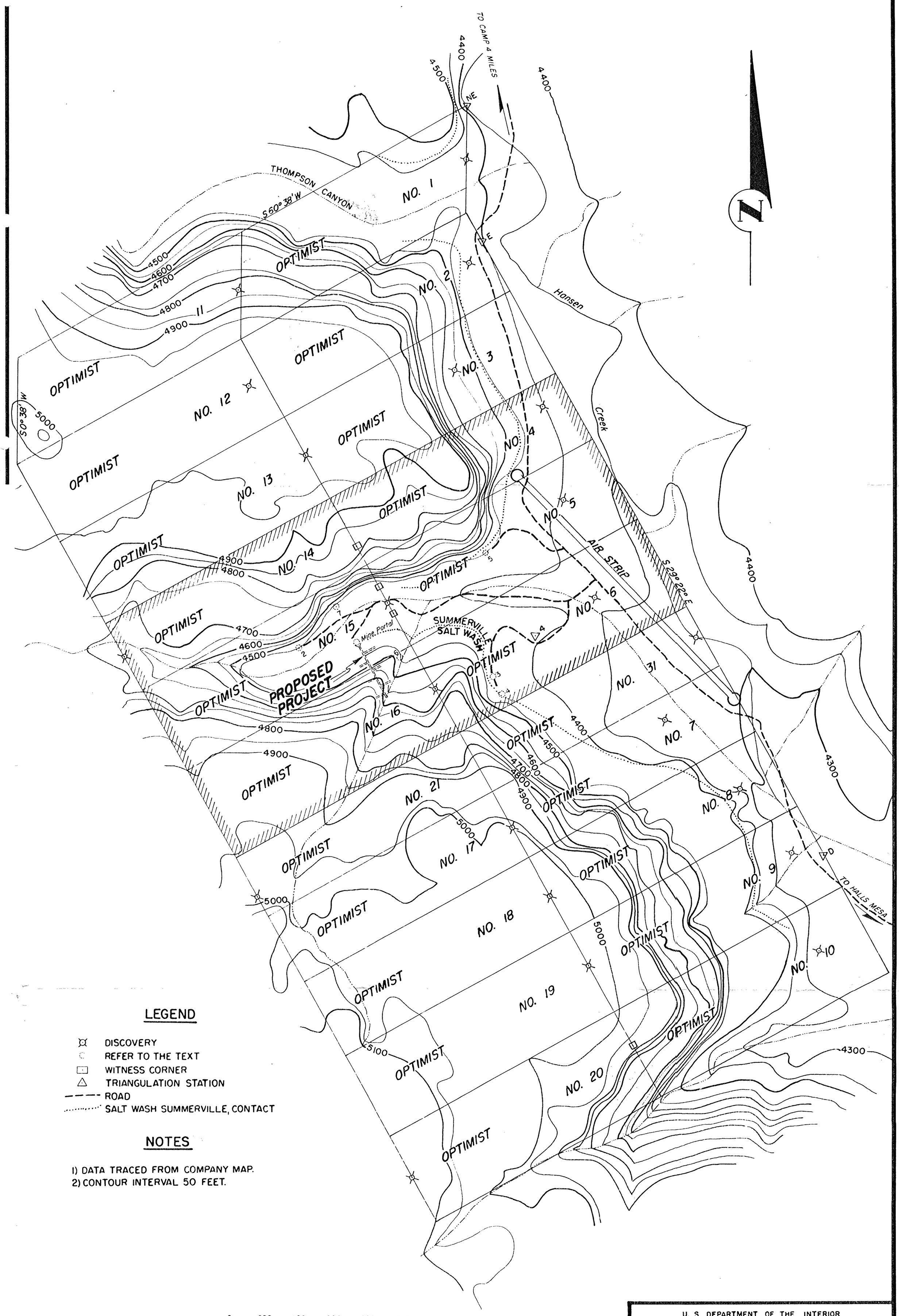
Fig. 1 Location Map DMEA Docket No. 3766

STATE: UTAH

COUNTY: GARFIELD

Sheet 2 of 5

ENGINEER: *W. E. YOUNG*	DATE: AUG. 10, 1955
TRACED: AUG., 1955; BY: A.P.T.S.	1900 - 343 - C
CHECKED:	



LEGEND

- DISCOVERY
- REFER TO THE TEXT
- WITNESS CORNER
- TRIANGULATION STATION
- ROAD
- SALT WASH SUMMERVILLE, CONTACT

NOTES

1) DATA TRACED FROM COMPANY MAP.
2) CONTOUR INTERVAL 50 FEET.

0 200 400 600 800 1000
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

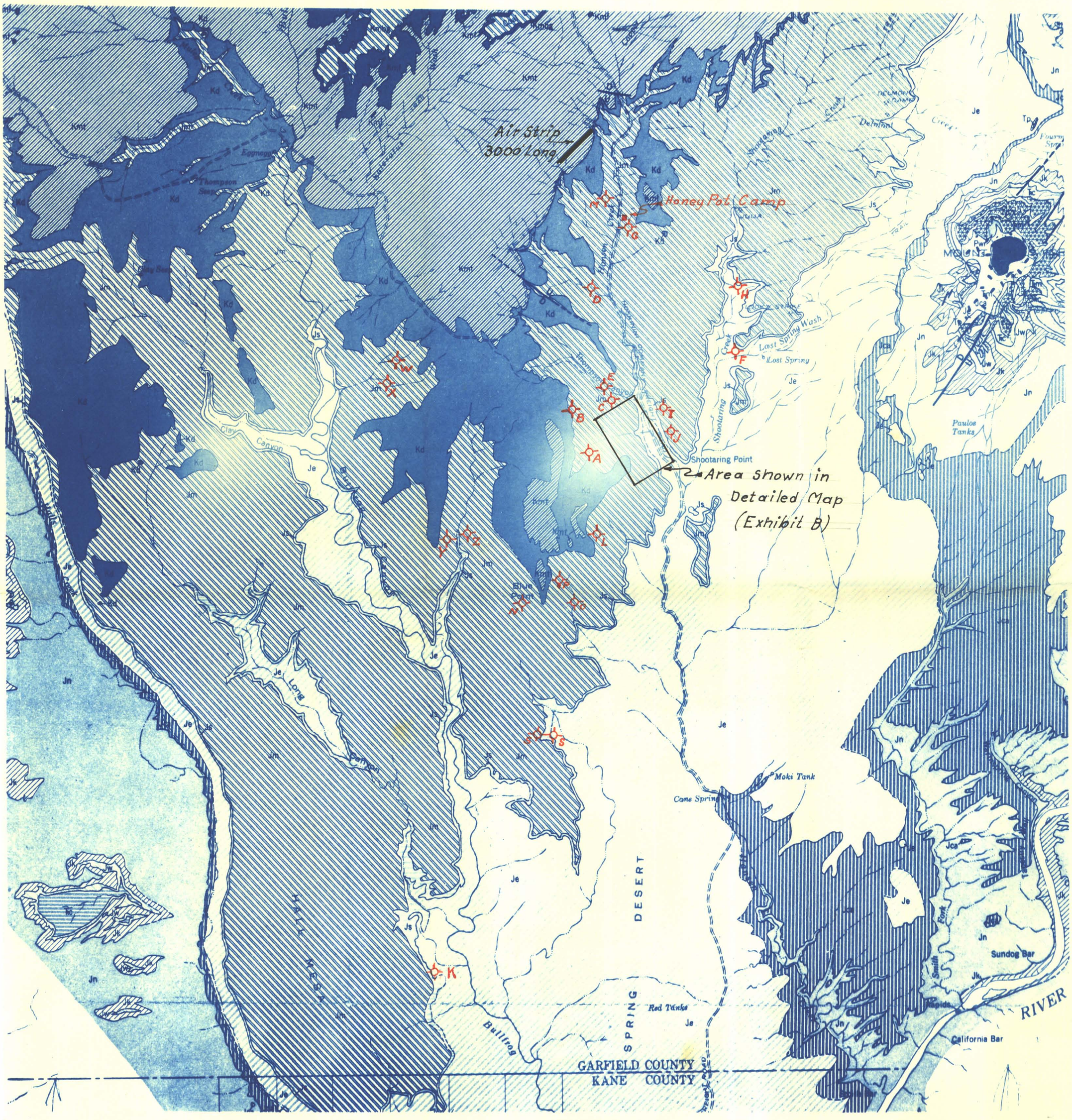
Fig. 2 DMEA Docket No. 3766

Claim Map Showing Proposed Project

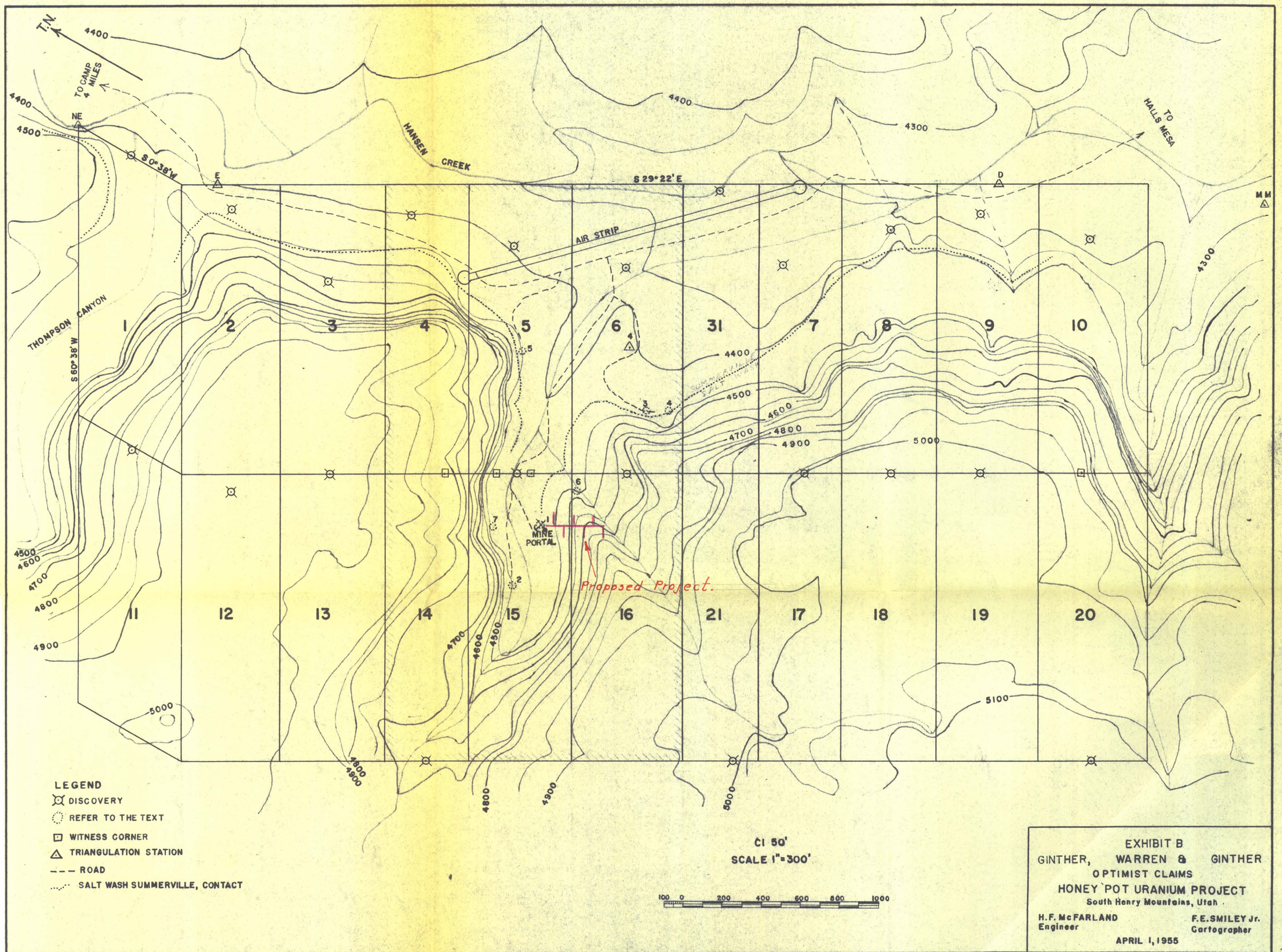
GINTHER, WARREN & GINTHER
OPTIMIST CLAIMS
HONEY POT URANIUM PROJECT
SOUTH HENRY MTN., GARFIELD CO., UTAH

ENGINEER: *W. E. YOUNG*	DATE: AUG. 12, 1955
TRACED: AUG., 1955; BY: A.P.T.S.	1900-344-C
CHECKED:	

EXHIBIT A
MAP OF GENERAL AREA
FROM U.S.G.S. PROFESSIONAL PAPER # 228
Radiometric Anomolies Located
by Uranium Aerial Explorations shown thus -
Scale 1" = 6000' April, 1955



H. F. McFARLAND
Engineer, Denver, Colo.



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