Surname copy

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

700

Knouse (2)
Ellis
Nelson
Lamb
Martin
FLKnouse

AUG 10 1956

Mr. Hector Fajardo, et al.
1801 S. W. 13th Avenue
Miami, Florida

Re: Docket No. DMEA-4035 (Uranium)
Mars II and III Claims
San Miguel County, New Mexico

Dear Mr. Fajardo:

Your application for aid in an exploration project and other information available to us in Washington concerning your above-named property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting some uranium mineralization on your property, indicates to us that the probability of disclosing minable ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

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

Sincerely yours,

G. O. Mittendorf

Administrator

Copies to: Messrs. Henry W. Carryl
and Wayne L. Cummings

FLKnouse/gla
8-8-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
DMEA Field Team, Region III (2)

RCL

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

DOCKET COPY

Kingsley (ELE)
Ellis

August 8, 1956

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4035

Applicant: Hector Fajardo, Henry W. Carryl, and Wayne E. Cummings, partnership
1801 S. W. 13th Avenue
Miami, Florida

Property: Consists of two full size unpatented lode mining claims, Mars No. II and III in sec. 19, T. 16 N., R. 23 E., New Mexico Principal Meridian, San Miguel County, New Mexico, owned by Applicant.

Note: Excerpt from page 2, Field Examiners' Joint Engineering and Geological Report:

"At the time of the examination it was learned that the claims referred to as Mars I and II as given in the DMEA application and the accompanying map should be changed to Mars II and III."

Date of application: October 24, 1955 (examination delayed at request of Applicant).

Work proposed: To drill 12 core-drill holes (six holes on each of the Mars claims) to an average depth of 130 feet, to explore the underlying 30 to 40-foot thick sandstone member of the Morrison formation for uranium. Applicant reported scintillometer and Geiger readings 1,000 feet along a flat-lying vein over a 2-foot width exposed in the cliff face of Largo Canyon. The chemical analysis submitted with the application showed 0.11 percent U_3O_8. There has been no production from the property. There has been some production from the Hunt Mine near Sanchez and at Sabinoso, 6 and 8 miles away.

Cost of approved work:	1,560 feet of core drilling @ $2.50/ft.	$3,900.00
	Total estimated cost of project	$3,900.00
	Government participation at 75%	$2,925.00

Field Team Report

Dated July 19, 1956
Joint report by Lawrence J. McGreevy, USGS, and Edward W. Buel, USBM

The rocks in the vicinity of the Mars claims range from Triassic to Tertiary. According to the AEC reports, the Chinle is believed to be the only formation in the area containing moderate radioactivity. Anomalous radioactivity was, however, detected in the upper part of the Morrison formation.

The Morrison formation is composed chiefly of sandstone and shale. The sandstone beds are fine-grained, cross-bedded, gray-white with some iron staining, and contain fairly abundant small clay galls. The uranium occurrences on the Mars II and III claims are in a 30- to 40-foot thick sandstone bed in the Morrison formation about 75 feet below the base of the Dakota sandstone.

Two pits, one on the Mars II and one on the Mars III claims, about 600 feet apart, exposed a lens or channel at the same stratigraphic horizon containing silicified fossil logs and a very thin bed of sandstone containing carbonaceous material Radioactivity which averages about three times background is associated with the thin seam of carbonaceous material in Pit No. 1, Mars II claim. The fossil logs are highly silicified and show no evidence of radioactivity.

In Pit No. 2, Mars III claim, the lens or channel exposure contains fossil logs and tree fragments. Radioactivity associated with thelogs averages about five times background. No visible uranium minerals were observed in either of the two pits examined or other exposures on the property. Applicant reports some of their ore material assayed 0.35 percent U_3O_8 and from 0.02 to 8.0 percent radiometrically. Check samples taken by the examining team of selected material showing the most radioactivity showed eU_3O_8 0.02 percent and cU_3O_8 0.006 percent.

It is concluded that the slight anomalous radioactivity on the claims is due to very minor amounts of U_3O_8 associated with thin beds of sandstone containing plant remains or with small silicified logs. There is no geological evidence to indicate that the requested exploration will disclose

either larger or higher grade uranium deposits, and it is recommended that the application be denied.

The Field Team concurs with the examiners' recommendation.

Comments by Commodity Specialists:

U. S. Geological Survey - W. P. Williams, August 2, 1956.

Concurs in examiners' and Field Team's recommendation for denial of the application.

U. S. Bureau of Mines - John E. Crawford, August 3, 1956.

Concurs in recommendation that application be denied.

Rare and Miscellaneous Metals Division - F. L. Knouse, August 3, 1956.

The examination of the radioactive exposures made by the examining team and the results of the samples taken of the most radioactive material indicates rather conclusively that the proposed exploration of this property is not likely to discover significant deposits of uranium. The quantity of uranium mineralization found in the most radioactive exposures is so minor that additional exploration is not justified. Therefore, the application should be denied.

Conclusions:

A review of all our information relative to the proposed project indicates that the probability of making a significant discovery of uranium on this property is not promising. Therefore, the application should be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis

8/7/56

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

August 3, 1956

RECEIVED
AUG - 6 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Docket 4035 (Uranium), Hector Fajardo, et al. (Mars II and III claims), San Miguel County, New Mexico

I have reviewed the report of examination, DMEA Docket 4035, Hector Fajardo, et al. (Mars II and III claims), San Miguel County, New Mexico, dated July 19 and received in this office July 30, 1956. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The field examiners recommend that the application be denied because the deposits are too small and too low in grade to be economically significant.

We concur in the denial.

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
AUG - 6 1956

August 3, 1956

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John E. Crawford

8/3/56 gfa

IN REPLY REFER TO:

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

RECEIVED
AUG - 3 1956

August 2, 1956

Memorandum

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

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

Subject: Review of field examination report, DMEA 4035 (uranium), Hector Fajardo, et al., Mars II and III claims, San Miguel County, New Mexico.

The examining team reports that uranium mineralization on the property is very weak. Samples of select material by the examiners afforded values of only 0.006 percent U_3O_8.

Uranium production from the vicinity has been small, and the closest mine is six miles away.

The examiners conclude that the chances of making a worthwhile discovery on the property are poor. I concur with the Field Team's and examiners' recommendation for denial of the application.

W. P. Williams

W. P. Williams

IN REPLY REFER TO:

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

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W. P. Williams

WPWilliams:btr
G 8/2/56

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

IN REPLY REFER TO:

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

RECEIVED
AUG - 3 1956

August 2, 1956

Memorandum

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From: [illegible] Williams, U. S. Geological Survey

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IN REPLY REFER TO:

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

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AUG - 3 1956

August 2, 1956

Memorandum

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From: [illegible] Williams, U. S. Geological Survey

Subject: Review of field examination report, DMEA 4035 (uranium), Hector Fajardo, et al., Bora II and III claims, San Miguel County, New Mexico.

The examining team reports that uranium mineralization on the property is very weak. Samples of select material by the examiners afforded values of only 0.006 percent U_3O_8.

Uranium production from the vicinity has been small, and the closest mine is six miles away.

The examiners conclude that the chances of making a worthwhile discovery on the property are poor. I concur with the field Team's and examiners' recommendation for denial of the application.

[illegible] P. Williams

WPWilliams:btr
C 8/2/56

cc: J. S. Crawford, 3641
J. [illegible] Hosted, 3210
Director's reading file (4212)
Branch reading file (4212)
DMEA (3)
Chron. file
Pocket file

7/30/56

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

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JUL 25 1956

July 23, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4035 (Uranium), Hector Fajardo, et al. (Mars II and III claims), San Miguel County, New Mexico

Enclosed are the original and three copies of a joint engineering and geologic Report of Examination on the subject property.

The field examiners found minor amounts of uranium in thin beds of sandstone in the upper part of the Morrison formation. They conclude that exploration will not result in the discovery of significant amounts of uranium ore and they recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
7/30/56
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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JUL 25 1956

DMEA
Date Rec'd
JUL 20 1956
BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

July 19, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

TRANSMITTED
JUL 23 1956

From: John F. Shaw
E. N. Harshman

Subject: DMEA Docket 4035 (Uranium), Hector Fajardo, et al. (Mars II and III claims), San Miguel County, New Mexico

Enclosed are the original and nine copies of a joint geological and engineering report by L. J. McGreevy, U. S. Geological Survey, and E. W. Buel, U. S. Bureau of Mines, covering their examination of the subject property.

The applicant requested DMEA assistance to explore for uranium on the Mars II and III claims by 1,560 feet of drilling at an estimated cost of $3,900.

Minor amounts of uranium occur in sandstones of the Morrison formation but the material is low grade and in small deposits.

The examiners conclude that exploration will not result in the discovery of significant deposits of uranium ore and they recommend that the application, DMEA Docket 4035, be denied.

We concur with the conclusions and recommendations.

John F. Shaw
Superintendent of the Denver Experiment Station

E. N. Harshman
Member, Field Team

Reviewed by
DMEA OPERATING COMMITTEE
7/30/56
(date)

Enclosures (10)
ENHarshman:mp

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

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JUL 25 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED

JUL 23 1956

DMEA 4035

Hector Fajardo, et al.

Mars II and III Claims

San Miguel County, New Mexico

Uranium

Joint Engineering and Geological Report

by

Lawrence J. McGreevy, Geologist
Geological Survey

Edward W. Buel, Mining Engineer
Bureau of Mines

July 19, 1956

Reviewed by
DMEA OPERATING COMMITTEE
7/30/56
(Date)

CONTENTS

	Page
Summary	1
Introduction	1
Location and Accessibility	2
Geography	3
Property	3
History and Production	4
Present Status	5
Geology	5
Sampling and Ore Estimates	8
Applicant's Proposal	8
Conclusions and Recommendations	9

ILLUSTRATIONS

Figure	Follows page
1. Index map showing location of the Mars II and III, San Miguel County, New Mexico. DMEA 4035	2
2. Sketch map showing workings of the Mars II and III claims, San Miguel County, New Mexico. DMEA 4035	7

DMEA 4035

HECTOR FAJARDO, et al.
MARS II AND III CLAIMS
SAN MIGUEL COUNTY, NEW MEXICO

RECEIVED
JUL 25 1956

SUMMARY

H. Fajardo and partners of Miami, Florida, requested DMEA assistance in exploring for uranium on two unpatented claims in sec. 19, T. 16 N., R. 23 E., San Miguel County, New Mexico.

The applicants propose drilling 12 holes or 6 holes per claim, to an average depth of 130 feet. The total cost for the project was estimated as $3,900 or $2.50 per foot of drilling.

A field examination of the property was made on June 26, 1956.

It is concluded that the property does not warrant DMEA assistance because the deposits are too small and too low in grade to be economically significant. Denial of the application for exploration assistance is recommended.

INTRODUCTION

The applicant requested DMEA assistance to explore for uranium on the Mars claims in San Miguel County, New Mexico. His estimated cost of the exploration is $3,900.

The considerable delay in this field examination resulted from the applicants inability to accompany the field examiners until late in June 1956. The claims were examined on June 26, 1956, by a DMEA examining team of E. N. Harshman and Lawrence J. McGreevy, Geological Survey, and Edward W. Buel, Bureau of

Mines. Accompanying the team members were Messrs. Hector Fajardo, Henry W. Carryl, and Wayne E. Cummings, who are owners of the property.

A thorough investigation was made of the salient geological features of the property which has been superficially explored by the applicant. The numerous outcrops along the ravines and canyon which border the property on two sides, naturally exposed the claims for examination.

At the time of the examination it was learned that the claims referred to as Mars I and II as given in the DMEA application and the accompanying map should be changed to Mars II and III.

The Denver office of the A. E. C. was consulted regarding this application.

LOCATION AND ACCESSIBILITY

The claims were located on Public Domain land in what is probably sec. 19, T. 16 N., R. 23 E., New Mexico principal meridian, San Miguel County, New Mexico (fig. 1). They lie near the southern limits of Canyon Largo at an estimated altitude of 6,500 feet. Canyon Largo lies between the towns of Trujillo and Sanchez which are along State Highway 65.

The property is accessible from Las Vegas by following State Highway 65 to Trujillo, a distance of about 32 miles. An unimproved road that passes by the mission and school at Trujillo is traveled for 6.4 miles to a fence and a cut-off road. The

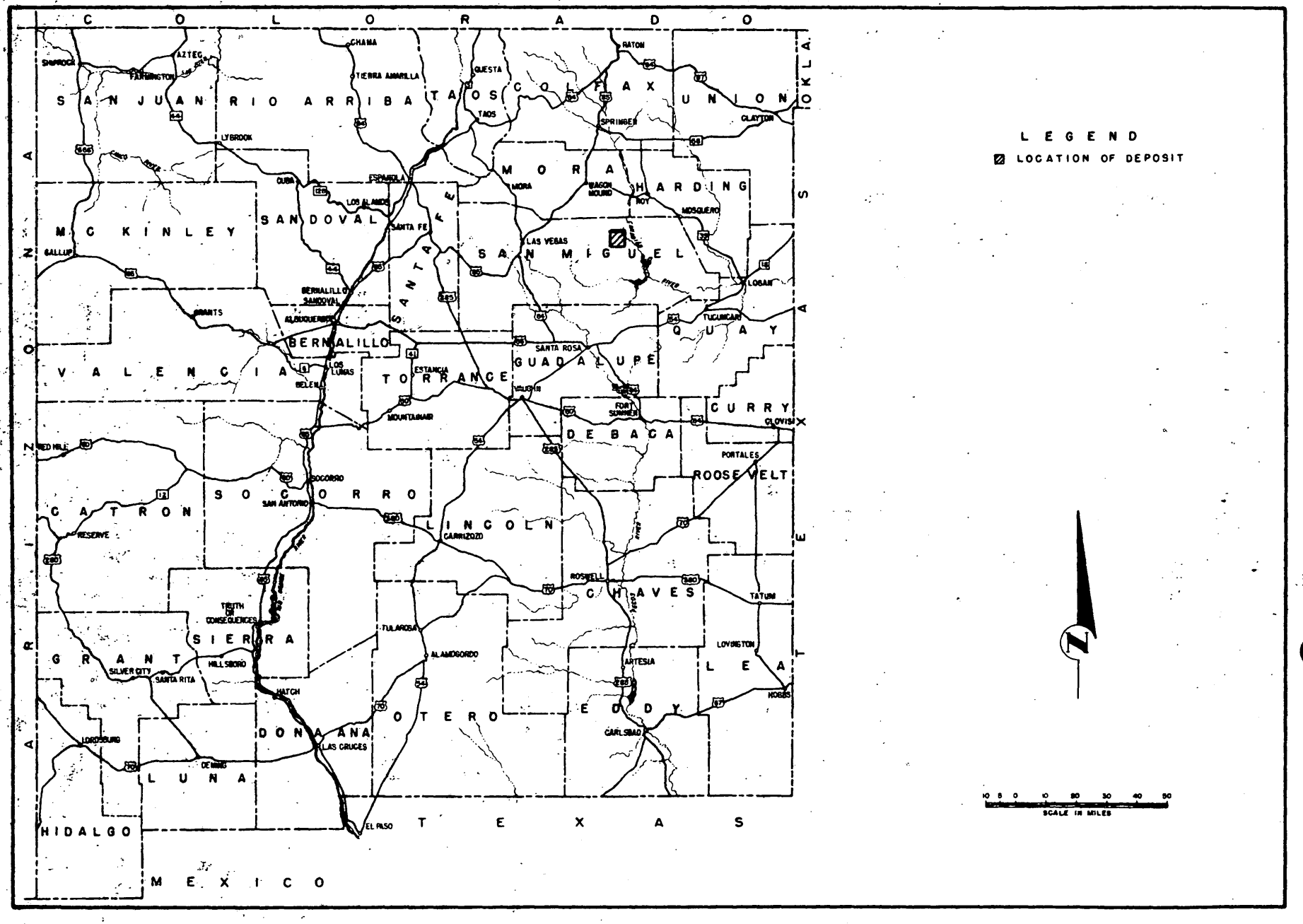


FIGURE 1 - INDEX MAP SHOWING LOCATION OF MARS CLAIM, SAN MIGUEL COUNTY, NEW MEXICO. DMEA 4035

cut-off road which passes through a deep ravine is traveled for 6.3 miles to the Mars claims. The last 5 miles of this road is very rough, and is accessible only by 4-wheel drive vehicles. The unimproved roads are said to be impassable during periods of heavy rains, especially in August.

GEOGRAPHY

The topography of the region can be classified as "young plateau" marked by nearly horizontal rock structure and dissected by a few deeply cut canyons which have steep or nearly vertical walls.

The climate is semi-arid with extremes in temperatures.

Vegetation is composed principally of pine and juniper and some shrub-like vegetation with lesser amounts of cacti. The pine is of sufficient size for timbering purposes.

Streams are intermittent with the possible exception of the main stream found in Canyon Largo and which drains into the Canadian River. All water for exploration drilling and/or other needs would have to be hauled several miles during the dry months.

Las Vegas is the nearest railhead and supply center.

PROPERTY

The property consists of the two unpatented mining lode claims, Mars II and III. Originally the property contained three or more

claims, but the owners have retained only two of them.

The claims were located in July 20, 1955.

Owners of the claims and their addresses are listed as follows:

(1) Hector Fajardo - 1801 S. W. 13th. Ave., Miami, Florida

(2) Henry W. Carryl - Rt. 2, Box 389, Homestead, Florida

(3) Wayne E. Cummings - Winfield, Iowa

Degree of ownership is not known, but probably the property is owned by equal shares.

HISTORY AND PRODUCTION

The mining history of the region is not well known. It is surmised that following the discovery of radioactive anomalies by the Atomic Energy Commission in 1955, or before, prospecting and exploratory work was conducted in the area. The applicants state that core drilling was undertaken during August 1955 on the Silver Bell mine, about two miles southwest of their property. This work was done on the Johnson Ranch by the Cinderella Uranium and Oil Company of Texas.

Eight miles northeast of the property small scale uranium mining operations are being conducted at Sabinoso. The Hunt mine near Sanchez, which is about 6 miles from the property, reportedly produced ore during August 1955. Core drilling operations were carried on during 1955 in the High Mesa area which is south of the applicants' property. Except for 20 to 40 tons of uranium ore produced at Sabinoso, more specific

information relating to the other uranium operations in the region is not known.

No ore has been produced from the Mars II and III claims.

Present Status

The Mars claims have been but superficially explored by two small cuts which were blasted out of the sandstone exposed along a ravine.

The applicant does not plan on undertaking any additional exploratory work. It is not likely that any but annual assessment work will be conducted on the claims, under present conditions.

GEOLOGY

The rocks in the vicinity of the Mars II and III claims range in age from Triassic to Tertiary. Exposed in Canyon Largo, which is immediately northwest of the property, is a 600- to 800-foot section of essentially horizontal sediments from Chinle (Triassic) formation through massive buff colored Dakota (Cretaceous) sandstone.

The Chinle formation is composed of shale, siltstone and some fine-grained silty sandstone with zones of conglomerate containing pebbles of limestone. The formation is multicolored containing various hues of red, purple, gray, and green. According to reconnaissance reports by the A. E. C. covering this area, the Chinle is believed to be the only formation containing moderate

radioactivity. Anomalous radioactivity was, however, detected in the upper part of the Morrison formation.

Jurassic rocks in the area are the Wingate sandstone and the Morrison formation. The Wingate sandstone is a massive ledge of light red or gray cross-bedded sandstone which rests with apparent conformity on the Chinle formation. The Morrison formation is composed chiefly of sandstone and shale. The sandstone beds are fine-grained, cross-bedded, gray-white with some iron staining, and contain fairly abundant small clay galls. The shale units are predominently gray-green with some light red. The uranium occurrences on the Mars II and III claims are in a 30- to 40-foot thick sandstone bed in the Morrison formation about 75 feet below the base of the Dakota sandstone.

The Dakota sandstone and the Purgatoire formation of Cretaceous age are undifferentiated in this area, and consist of fine-grained, sugary, locally quartzitic sandstone beds containing pebbles of quartz. The beds are white, buff and brown in color and exhibit ripple marks and cross-bedding.

A condensed stratigraphic section follows:

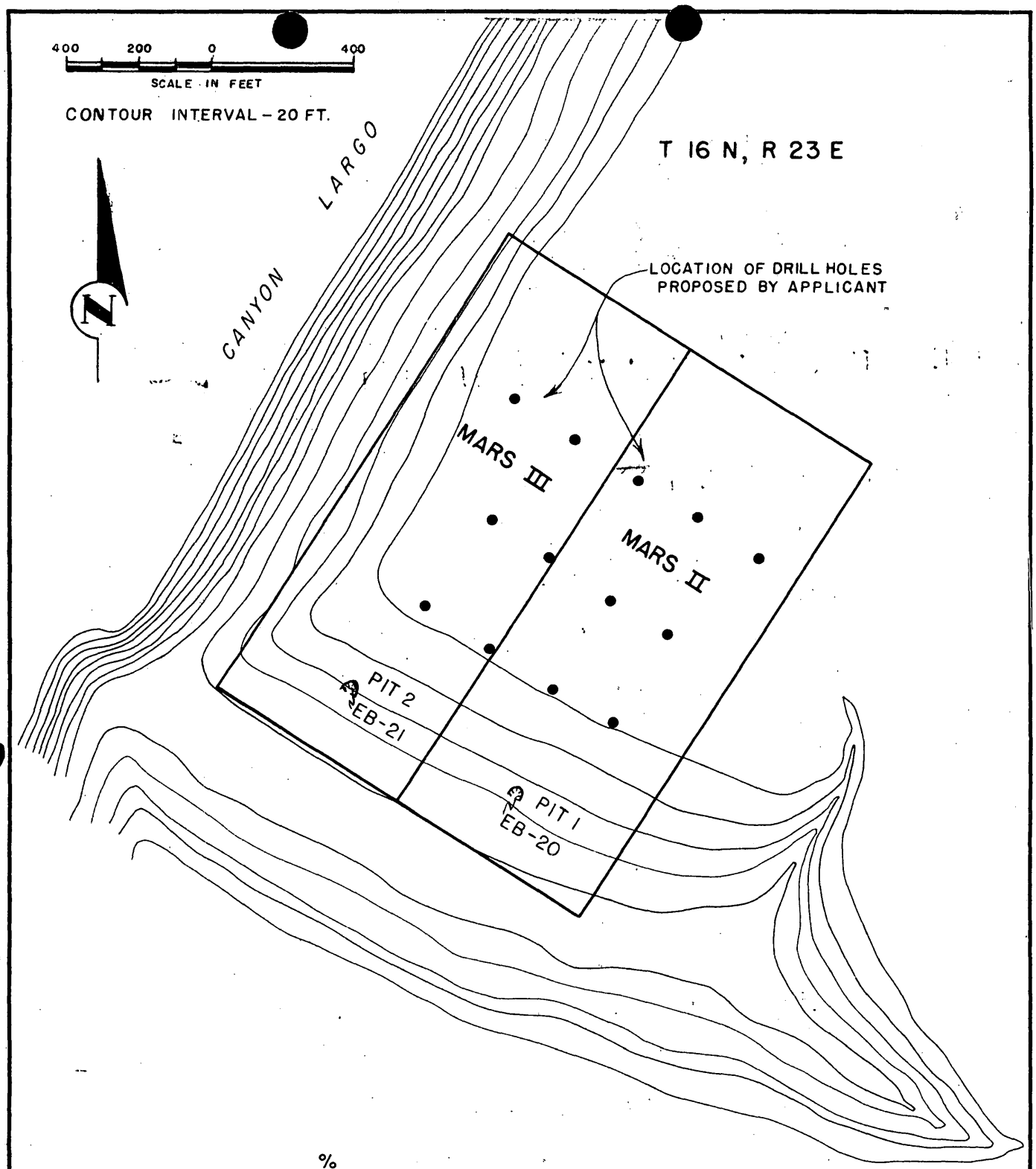
Formation	Thickness
Dakota	125 ft.
Morrison	200 ft.
Wingate	75 ft.
Chinle	300 ft.

The Mars II and III claims are located adjacent to the north rim of a small tributary canyon which feeds into main Canyon Largo. The best rock exposures are found along the southern boundaries of the claims paralleling the small tributary canyon. Here the steep slope of the canyon wall exposes approximately 50 to 60 feet of the Morrison formation overlain by Dakota sandstone.

On the Mars II claim (fig. 2) a small pit (Pit No. 1) about 75 feet below the base of the Dakota, exposes a thick layer of cross-bedded, gray-white, somewhat iron stained sandstone of the Morrison formation. The sandstone layer is about 30 to 40 feet thick, strikes N. 45° E. and dips 5° to the S. E. The pit exposes a 2-foot thick lens or channel containing silicified fossil logs and a few very thin beds of sandstone containing carbonaceous material. Radioactivity which averages about three times background is associated with the thin seams of carbonaceous material. The fossil logs are highly silicified and show no evidence of radioactivity.

Pit No. 2 on the Mars III claim (fig. 2) approximately 600 feet west of Pit No. 1 is on the same stratigraphic horizon. This small pit exposes a similar lens or channel which contains fossil logs and tree fragments. Radioactivity associated with the logs averaged about five times background.

Underlying the thick sandstone bed near Pit No. 2 is a gray shale bed which pinches and swells but averages about 1 foot in



SAMPLE	DATA	e U_3O_8 %	U_3O_8
EB-20	CHIP 1 FT.	0.02	0.006
EB-21	CHIP $\frac{1}{2}$ FT.	0.02	0.006

NOTE: PITS LOCATIONS APPROXIMATELY SHOWN

MODIFIED FROM APPLICANT'S MAP

FIGURE 2 - SKETCH MAP SHOWING WORKINGS OF THE MARS II AND III CLAIMS, SAN MIGUEL COUNTY, NEW MEXICO. DMEA 4035

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JUL 2 5 1956

thickness. This is underlain by 2 feet of gray-white sandstone and a light red shale bed about 1-foot thick. Radioactivity, approximately three times background, was observed in the upper gray shale bed but was absent in the lower red shale. No visible uranium minerals were observed in either of the two pits examined or in the gray shale unit.

SAMPLING AND ORE ESTIMATES

The applicant reported that some of their "ore" material assayed 0.35 percent U_3O_8 and from 0.02 to 8.0 percent radiometrically. Check samples taken by the DMEA examining team of select material showing the most radioactivity gave the following results:

Sample	Description	Percent eU_3O_8	Percent U_3O_8
EB-20	1-foot chip taken along carbonaceous seam in sandstone	0.02	0.006
EB-21	1/2-foot chip taken from petrified log	0.02	0.006

The Mars claims do not contain any known ore reserves.

APPLICANT'S PROPOSAL

The applicant proposes core drilling six holes on each claim. Depth of each hole is estimated as 130 feet. Total drilling is 1,560 feet at an estimated cost of $3,900, or $2.50 per foot. The locations of 13 holes shown on the applicants' sketch map are shown on figure 2.

CONCLUSIONS AND RECOMMENDATIONS

Two samples, one from each of the two small excavations on the Mars claims, indicate that the slight anomalous radioactivity noted on the claims is due to very minor amounts of U_3O_8 associated with thin beds of sandstone containing plant remains or with small silicified logs in the upper part of the Morrison formation. These samples were carefully selected to represent the highest grade material in the exposures. Each sample contained 0.006 percent U_3O_8.

There is no geological evidence to indicate that the requested exploration will disclose either larger or higher grade uranium deposits and it is recommended that the application for DMEA exploration assistance, DMEA Docket 4035, be denied.

7/26/56

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

July 23, 1956

224 New Customhouse
Denver 2, Colorado

RECEIVED
JUL 25 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4035 (Uranium), Hector Fajardo, et al. (Mars II and III claims), San Miguel County, New Mexico

Enclosed are the original and three copies of a joint engineering and geologic Report of Examination on the subject property.

The field examiners found minor amounts of uranium in thin beds of sandstone in the upper part of the Morrison formation. They conclude that exploration will not result in the discovery of significant amounts of uranium ore and they recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
7-30-56
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
JUL 25 1956

DMEA
Date Rec'd.
JUL 20 1956
BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

July 19, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

TRANSMITTED
JUL 23 1956

From: John F. Shaw
E. N. Harshman

Subject: DMEA Docket 4035 (Uranium), Hector Fajardo, et al. (Mars II and III claims), San Miguel County, New Mexico

Enclosed are the original and nine copies of a joint geological and engineering report by L. J. McGreevy, U. S. Geological Survey, and E. W. Buel, U. S. Bureau of Mines, covering their examination of the subject property.

The applicant requested DMEA assistance to explore for uranium on the Mars II and III claims by 1,560 feet of drilling at an estimated cost of $3,900.

Minor amounts of uranium occur in sandstones of the Morrison formation but the material is low grade and in small deposits.

The examiners conclude that exploration will not result in the discovery of significant deposits of uranium ore and they recommend that the application, DMEA Docket 4035, be denied.

We concur with the conclusions and recommendations.

John F. Shaw
Superintendent of the Denver Experiment Station

Concurred by
DMEA Field Team

7-30-56
(date)

E. N. Harshman
Member, Field Team

Enclosures (10)
ENHarshman:mp

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED

JUL 23 1956

DMEA 4035

Hector Fajardo, et al.

Mars II and III Claims

San Miguel County, New Mexico

Uranium

Joint Engineering and Geological Report

by

Lawrence J. McGreevy, Geologist
Geological Survey

Edward W. Buel, Mining Engineer
Bureau of Mines

July 19, 1956

Reviewed by
DMEA OPERATING COMMITTEE
7-30-56
(Date)

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CONTENTS

	Page
Summary	1
Introduction	1
Location and Accessibility	2
Geography	3
Property	3
History and Production	4
Present Status	5
Geology	5
Sampling and Ore Estimates	8
Applicant's Proposal	8
Conclusions and Recommendations	9

ILLUSTRATIONS

Figure	Follows page
1. Index map showing location of the Mars II and III, San Miguel County, New Mexico. DMEA 4035	2
2. Sketch map showing workings of the Mars II and III claims, San Miguel County, New Mexico. DMEA 4035	7

DMEA 4035

HECTOR FAJARDO, et al.
MARS II AND III CLAIMS
SAN MIGUEL COUNTY, NEW MEXICO

RECEIVED
JUL 25 1956

SUMMARY

H. Fajardo and partners of Miami, Florida, requested DMEA assistance in exploring for uranium on two unpatented claims in sec. 19, T. 16 N., R. 23 E., San Miguel County, New Mexico.

The applicants propose drilling 12 holes or 6 holes per claim, to an average depth of 130 feet. The total cost for the project was estimated as $3,900 or $2.50 per foot of drilling.

A field examination of the property was made on June 26, 1956.

It is concluded that the property does not warrant DMEA assistance because the deposits are too small and too low in grade to be economically significant. Denial of the application for exploration assistance is recommended.

INTRODUCTION

The applicant requested DMEA assistance to explore for uranium on the Mars claims in San Miguel County, New Mexico. His estimated cost of the exploration is $3,900.

The considerable delay in this field examination resulted from the applicants inability to accompany the field examiners until late in June 1956. The claims were examined on June 26, 1956, by a DMEA examining team of E. N. Harshman and Lawrence J. McGreevy, Geological Survey, and Edward W. Buel, Bureau of

Mines. Accompanying the team members were Messrs. Hector Fajardo, Henry W. Carryl, and Wayne E. Cummings, who are owners of the property.

A thorough investigation was made of the salient geological features of the property which has been superficially explored by the applicant. The numerous outcrops along the ravines and canyon which border the property on two sides, naturally exposed the claims for examination.

At the time of the examination it was learned that the claims referred to as Mars I and II as given in the DMEA application and the accompanying map should be changed to Mars II and III.

The Denver office of the A. E. C. was consulted regarding this application.

LOCATION AND ACCESSIBILITY

The claims were located on Public Domain land in what is probably sec. 19, T. 16 N., R. 23 E., New Mexico principal meridian, San Miguel County, New Mexico (fig. 1). They lie near the southern limits of Canyon Largo at an estimated altitude of 6,500 feet. Canyon Largo lies between the towns of Trujillo and Sanchez which are along State Highway 65.

The property is accessible from Las Vegas by following State Highway 65 to Trujillo, a distance of about 32 miles. An unimproved road that passes by the mission and school at Trujillo is traveled for 6.4 miles to a fence and a cut-off road. The

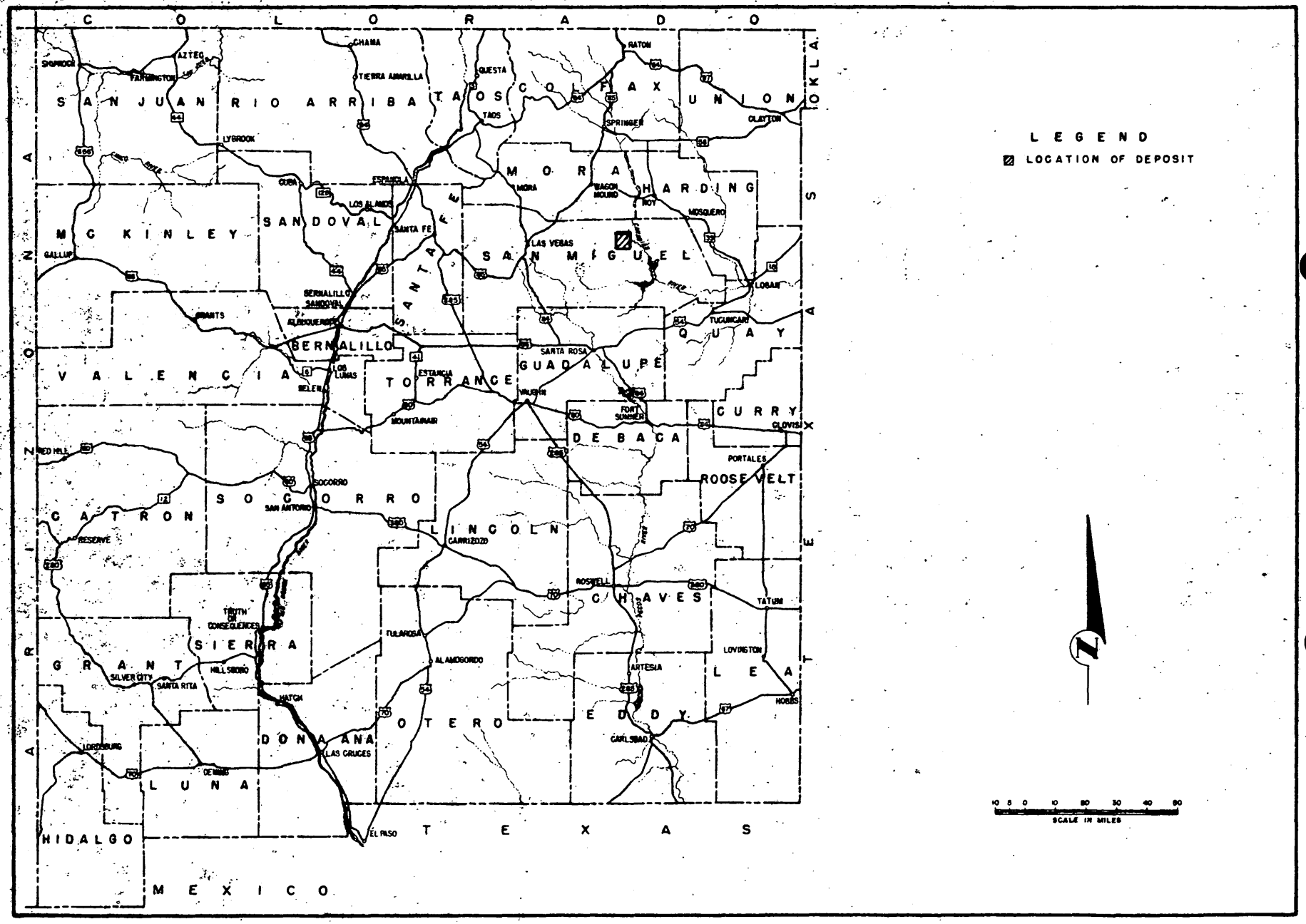


FIGURE 1 - INDEX MAP SHOWING LOCATION OF MARS CLAIM, SAN MIGUEL COUNTY, NEW MEXICO. DMEA 4035

cut-off road which passes through a deep ravine is traveled for 6.3 miles to the Mars claims. The last 5 miles of this road is very rough, and is accessible only by 4-wheel drive vehicles. The unimproved roads are said to be impassable during periods of heavy rains, especially in August.

GEOGRAPHY

The topography of the region can be classified as "young plateau" marked by nearly horizontal rock structure and dissected by a few deeply cut canyons which have steep or nearly vertical walls.

The climate is semi-arid with extremes in temperatures.

Vegetation is composed principally of pine and juniper and some shrub-like vegetation with lesser amounts of cacti. The pine is of sufficient size for timbering purposes.

Streams are intermittent with the possible exception of the main stream found in Canyon Large and which drains into the Canadian River. All water for exploration drilling and/or other needs would have to be hauled several miles during the dry months.

Las Vegas is the nearest railhead and supply center.

PROPERTY

The property consists of the two unpatented mining lode claims, Mars II and III. Originally the property contained three or more

claims, but the owners have retained only two of them.

The claims were located in July 20, 1955.

Owners of the claims and their addresses are listed as follows:

(1) Hector Fajardo - 1801 S. W. 13th. Ave., Miami, Florida

(2) Henry W. Carryl - Rt. 2, Box 389, Homestead, Florida

(3) Wayne E. Cummings - Winfield, Iowa

Degree of ownership is not known, but probably the property is owned by equal shares.

HISTORY AND PRODUCTION

The mining history of the region is not well known. It is surmised that following the discovery of radioactive anomalies by the Atomic Energy Commission in 1955, or before, prospecting and exploratory work was conducted in the area. The applicants state that core drilling was undertaken during August 1955 on the Silver Bell mine, about two miles southwest of their property. This work was done on the Johnson Ranch by the Cinderella Uranium and Oil Company of Texas.

Eight miles northeast of the property small scale uranium mining operations are being conducted at Sabinoso. The Hunt mine near Sanchez, which is about 6 miles from the property, reportedly produced ore during August 1955. Core drilling operations were carried on during 1955 in the High Mesa area which is south of the applicants' property. Except for 20 to 40 tons of uranium ore produced at Sabinoso, more specific

information relating to the other uranium operations in the region is not known.

No ore has been produced from the Mars II and III claims.

Present Status

The Mars claims have been but superficially explored by two small cuts which were blasted out of the sandstone exposed along a ravine.

The applicant does not plan on undertaking any additional exploratory work. It is not likely that any but annual assessment work will be conducted on the claims, under present conditions.

GEOLOGY

The rocks in the vicinity of the Mars II and III claims range in age from Triassic to Tertiary. Exposed in Canyon Largo, which is immediately northwest of the property, is a 600- to 800-foot section of essentially horizontal sediments from Chinle (Triassic) formation through massive buff colored Dakota (Cretaceous) sandstone.

The Chinle formation is composed of shale, siltstone and some fine-grained silty sandstone with zones of conglomerate containing pebbles of limestone. The formation is multicolored containing various hues of red, purple, gray, and green. According to reconnaissance reports by the A. E. C. covering this area, the Chinle is believed to be the only formation containing moderate

radioactivity. Anomalous radioactivity was, however, detected in the upper part of the Morrison formation.

Jurassic rocks in the area are the Wingate sandstone and the Morrison formation. The Wingate sandstone is a massive ledge of light red or gray cross-bedded sandstone which rests with apparent conformity on the Chinle formation. The Morrison formation is composed chiefly of sandstone and shale. The sandstone beds are fine-grained, cross-bedded, gray-white with some iron staining, and contain fairly abundant small clay galls. The shale units are predominently gray-green with some light red. The uranium occurrences on the Mars II and III claims are in a 30- to 40-foot thick sandstone bed in the Morrison formation about 75 feet below the base of the Dakota sandstone.

The Dakota sandstone and the Purgatoire formation of Cretaceous age are undifferentiated in this area, and consist of fine-grained, sugary, locally quartzitic sandstone beds containing pebbles of quartz. The beds are white, buff and brown in color and exhibit ripple marks and cross-bedding.

A condensed stratigraphic section follows:

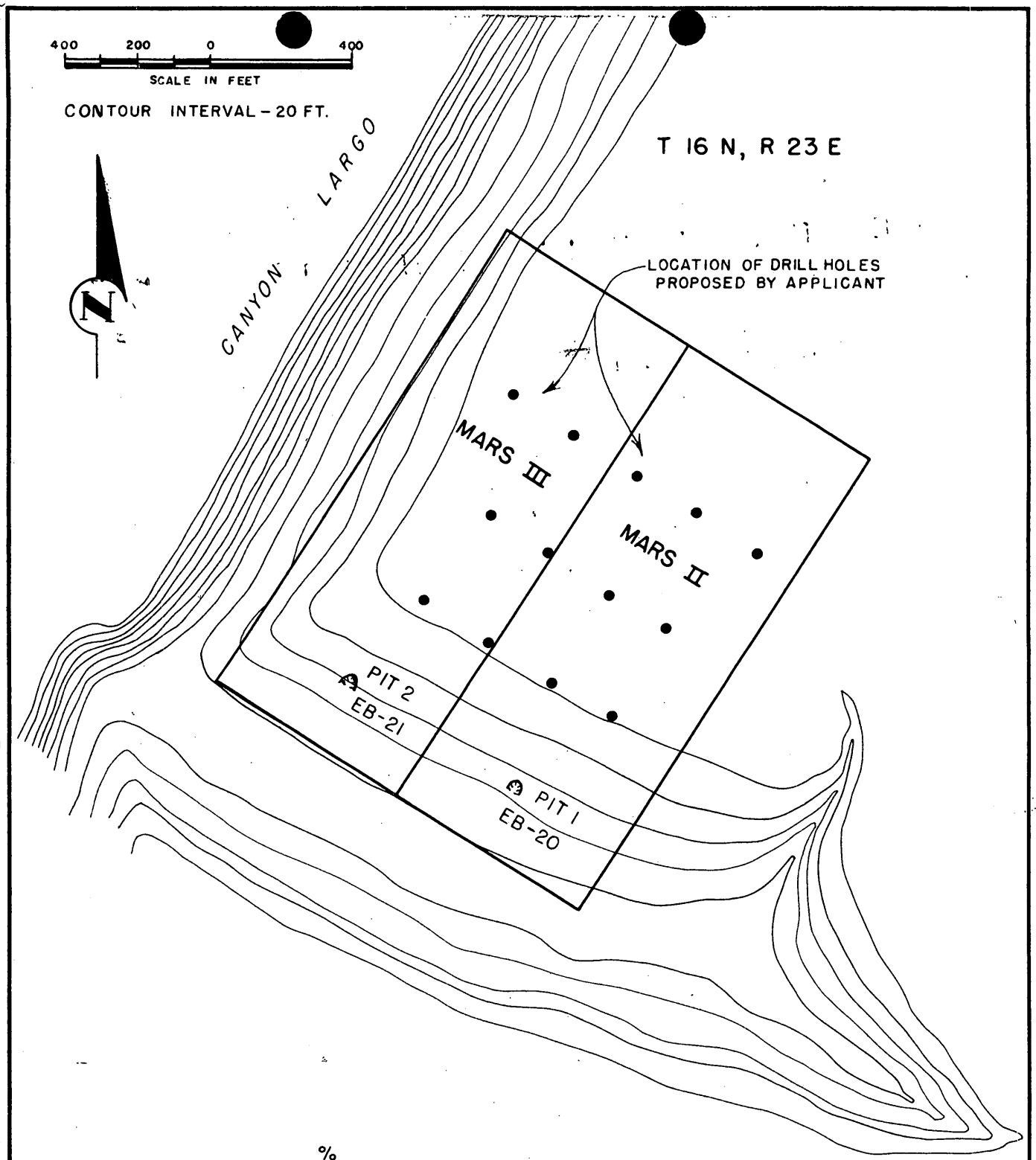
Formation	Thickness
Dakota	125 ft.
Morrison	200 ft.
Wingate	75 ft.
Chinle	300 ft.

The Mars II and III claims are located adjacent to the north rim of a small tributary canyon which feeds into main Canyon Largo. The best rock exposures are found along the southern boundaries of the claims paralleling the small tributary canyon. Here the steep slope of the canyon wall exposes approximately 50 to 60 feet of the Morrison formation overlain by Dakota sandstone.

On the Mars II claim (fig. 2) a small pit (Pit No. 1) about 75 feet below the base of the Dakota, exposes a thick layer of cross-bedded, gray-white, somewhat iron stained sandstone of the Morrison formation. The sandstone layer is about 30 to 40 feet thick, strikes N. 45° E. and dips 5° to the S. E. The pit exposes a 2-foot thick lens or channel containing silicified fossil logs and a few very thin beds of sandstone containing carbonaceous material. Radioactivity which averages about three times background is associated with the thin seams of carbonaceous material. The fossil logs are highly silicified and show no evidence of radioactivity.

Pit No. 2 on the Mars III claim (fig. 2) approximately 600 feet west of Pit No. 1 is on the same stratigraphic horizon. This small pit exposes a similar lens or channel which contains fossil logs and tree fragments. Radioactivity associated with the logs averaged about five times background.

Underlying the thick sandstone bed near Pit No. 2 is a gray shale bed which pinches and swells but averages about 1 foot in



SAMPLE	DATA	eU_3O_8 %	U_3O_8
EB-20	CHIP 1 FT.	0.02	0.006
EB-21	CHIP $\frac{1}{2}$ FT.	0.02	0.006

NOTE: PIT LOCATIONS APPROXIMATELY SHOWN

MODIFIED FROM APPLICANT'S MAP

FIGURE 2 - SKETCH MAP SHOWING WORKINGS OF THE MARS II AND III CLAIMS, SAN MIGUEL COUNTY, NEW MEXICO. DMEA 4035

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thickness. This is underlain by 2 feet of gray-white sandstone and a light red shale bed about 1-foot thick. Radioactivity, approximately three times background, was observed in the upper gray shale bed but was absent in the lower red shale. No visible uranium minerals were observed in either of the two pits examined or in the gray shale unit.

SAMPLING AND ORE ESTIMATES

The applicant reported that some of their "ore" material assayed 0.35 percent U_3O_8 and from 0.02 to 8.0 percent radiometrically. Check samples taken by the DMEA examining team of select material showing the most radioactivity gave the following results:

Sample	Description	Percent eU_3O_8	Percent U_3O_8
EB-20	1-foot chip taken along carbonaceous seam in sandstone	0.02	0.006
EB-21	1/2-foot chip taken from petrified log	0.02	0.006

The Mars claims do not contain any known ore reserves.

APPLICANT'S PROPOSAL

The applicant proposes core drilling six holes on each claim. Depth of each hole is estimated as 130 feet. Total drilling is 1,560 feet at an estimated cost of $3,900, or $2.50 per foot. The locations of 13 holes shown on the applicants' sketch map are shown on figure 2.

CONCLUSIONS AND RECOMMENDATIONS

Two samples, one from each of the two small excavations on the Mars claims, indicate that the slight anomalous radioactivity noted on the claims is due to very minor amounts of U_3O_8 associated with thin beds of sandstone containing plant remains or with small silicified logs in the upper part of the Morrison formation. These samples were carefully selected to represent the highest grade material in the exposures. Each sample contained 0.006 percent U_3O_8.

There is no geological evidence to indicate that the requested exploration will disclose either larger or higher grade uranium deposits and it is recommended that the application for DMEA exploration assistance, DMEA Docket 4035, be denied.

RECEIVED
DEC 12 1955

December 6, 1955

Memorandum

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

From: Acting Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4035 (Uranium), Hector Fajardo, et al., Mars I and II claims, San Miguel County, New Mexico

The above brochure was received in this office on December 6, 1955.

An examination will be made and report prepared by an engineer from the Denver office.

JOHN F. SHAW

John F. Shaw

cc: 2 w/orig.
E. N. Harshman
J. F. Shaw
Sec. Op. Com. (2)

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J. F. Shaw

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

RECEIVED
DEC - 8 1955

December 5, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (With brochure)
E. N. Harshman

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4035 (Uranium), Hector Fajardo, et al., Mars I and II claims, San Miguel County, New Mexico

Enclosed is the subject application in the amount of $3,900.00 together with a copy of additional information sent by the applicant at the request of the DMEA Washington office.

Included also for your information is a copy of a letter from the Chairman of the Operating Committee dated November 9, 1955 with memoranda of review by members of the Uranium Commodity Committee. A field examination and suitable report are requested.

E. N. Harshman

E. N. Harshman

Enclosures

HMC:ab

cc: Sec. Op. Comm. (2)
Docket 4035
Chron.

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

December 5, 1955

224 New Customhouse
Denver 2, Colorado

RECEIVED
DEC - 8 1955

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E. N. Harshman

E. N. Harshman

Enclosures

HMC:ab

cc: Sec. Op. Comm. (2)
Docket 4035
Chron.

12-2-55 original

Henry W. Carryl
RT 2 Box 389
Homestead, Florida

Nov 29, 1955
Miami, Florida

Gentelmen

In reply to your Letter of Nov 9, 1955 Docket No DMEA-4035 (Uranium) Mars I and Mars II San Miguel County, New Mexico

The only record of chemical analyses was sent to you in the first letter. No more will be avaible untis we get back to New Mexico in April 1956

I have drawn this map from a sketch I made out there. I have no recollection of any fault in the vein Rather it gives the impression of being the out side edge of a Saucer impregnated with petrified Logs.

Radiometric Test were run many times and one went as high as 8.0% others as low as .02% We have no written results on these Tests They were made by an engeering Company in Santa Fe who was Trying to sell us a radiometric portable Field Counter.

I believe one of the other partners has the powdered ore of the 8.0% radiometric Test. if so I will send it to Mr W.M Traver

II + III
see p. v.
F T report
7/19/56

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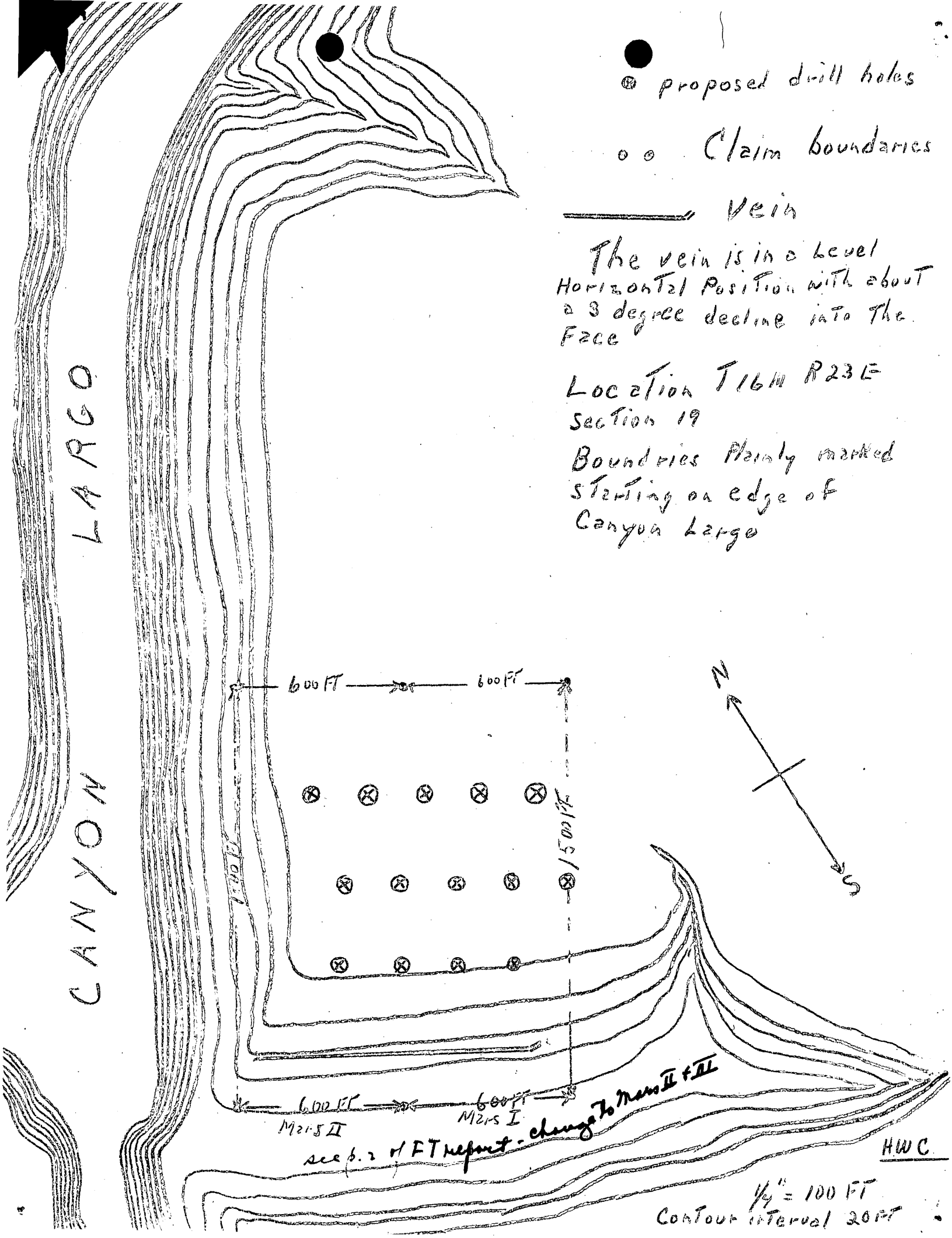
DEC - 2 1955

Sincerely Yours,
Henry W. Carryl


proposed drill holes
Claim boundaries
Vein
The vein is in a Level Horizontal Position with about a 3 degree decline into the Face
Location T16N R23E
Section 19
Boundries Plainly marked starting on edge of Canyon Largo
CANYON LARGO
600 FT
600 FT
1500 FT
1500 FT
600 FT
600 FT
Mars II
Mars I
N
S
see p. 2 of FT report - change to Mars II + III
HWC
1/4" = 100 FT
Contour interval 20 FT

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DEC - 2 1959

Henry W. Carryl.
RFD Box 389
Homestead, Florida

Nov 29, 1955
Miami, Florida

Gentlemen

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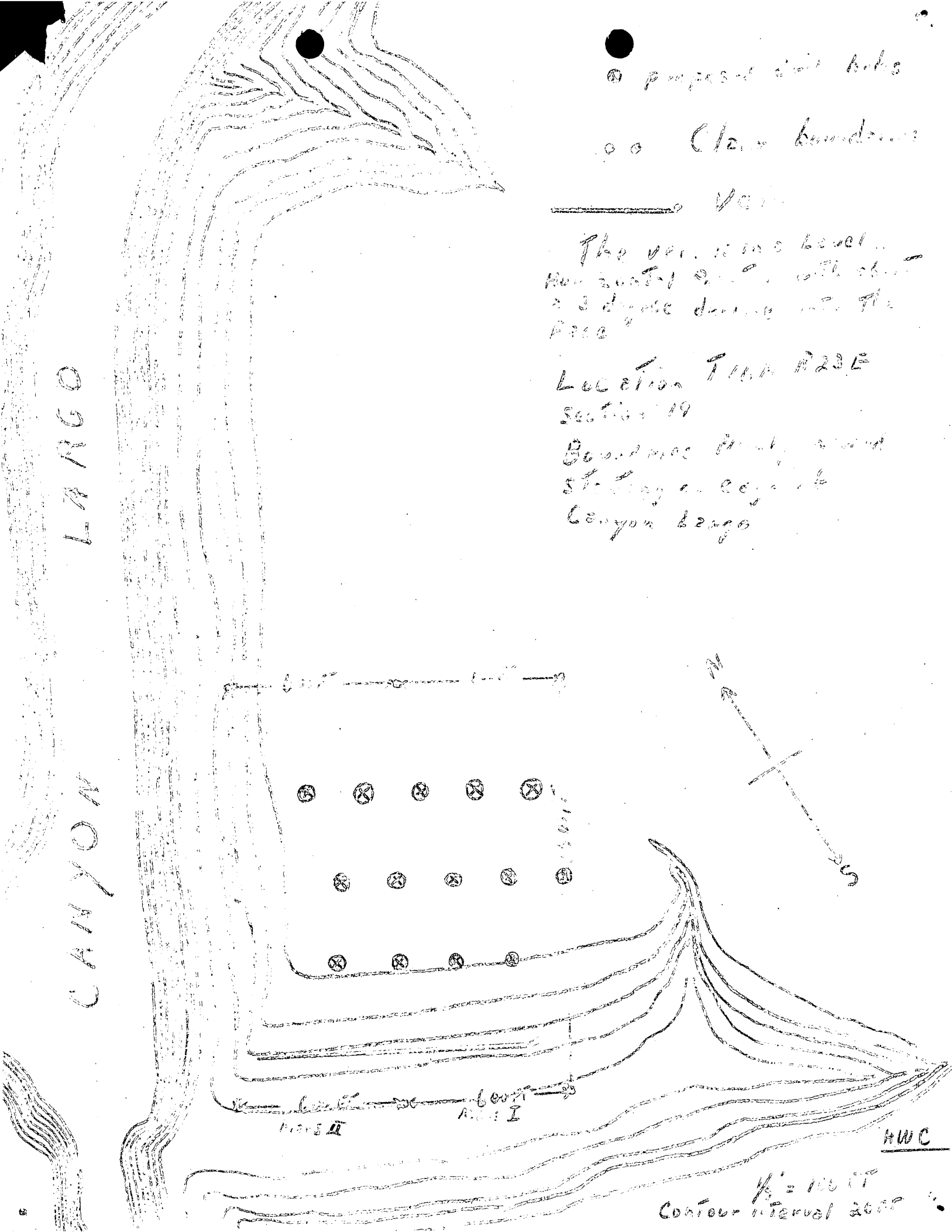
Henry W Carryl


Proposed drill holes
Claim boundaries
Veins
The veins have been horizontal [illegible] with a 3 degree dip [illegible] the east
Location T 16 N R 23 E
Section 19
Boundaries [illegible] Stringer [illegible] Canyon Range
CANYON
LANGO
N
S
Area II
Area I
HWC
Contour interval 20 FT

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7dd

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

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

NOV - 9 1955

Re: Docket No. DMEA-1035 (Uranium)
Hector Fajardo, et al.
Mare (I and II) Claims II + III see p.2 ET report 7/19/56
San Miguel County, New Mexico

Dear Mr. Traver:

The captioned application is referred to your office for either a field examination and report on the proposed project or your recommendations based on information available to your office. You will note in the enclosed Administrator's letter to the Applicant, that additional information was requested and that copies be forwarded to you. We suggest deferring a field examination, if such is necessary, until you receive this information. A copy of the application was transmitted to your office on October 27, 1955.

Enclosed are copies of memoranda, dated November 3, and 4, 1955, from Mr. John E. Crawford, USBM, and Mr. M. E. Nelson, USGS, respectively, relating to the above project.

If your office recommends an exploration program as submitted or revised by the Applicant, we will require nine copies of a map showing the proposed work and mineralized exposures in relation to the claim boundaries.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

FLKnouse/izm 11-8-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700
Mr. Knouse
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, 3210, GSA

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

NOV - 9 1955

Mr. Hector Fajardo, et al.
1801 S.W. 13th Avenue
Miami, Florida

Re: Docket No. DMEA-1035 (Uranium)
Mara (I and II) Claims II + III - see pg 2 F.T. report July 19, 1956
San Miguel County, New Mexico

Gentlemen:

This is with reference to your application for Government exploration aid to explore the subject property.

To enable us to continue with the processing of this application, we will require the following additional information in quadruplicate:

1. Sketch or map drawn to scale which shows the following:

   a. Claim boundaries.
   b. Location of the 1000 feet long, 2-foot thick vein exposures with strike and dip.
   c. Location, cut length, and chemical analyses of samples taken from vein.
   d. Results of the radiometric survey.
   e. Location of the proposed drill holes.

2. Describe the uranium mineralization, if known.

Two copies of this information should be forwarded to this office and the other two copies forwarded to:

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

Your application has been referred to Mr. Traver and the Regional Office will contact you if additional information is required or if a field examination of your property is to be scheduled.

Sincerely yours,

C. O. Mitchell

Administrator

Mr. Knouse
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641
THKillsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

FLKnouse/izm 11/8/55
cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700

Surname Copy
700
F.L. Knouse
Ellis
Selfridge
GCSelfridge

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

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

NOV - 9 1955

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Mare I and II Claims
San Miguel County, New Mexico

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Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

FLKnouse/izm 11-8-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700
Mr. Knouse
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, 3210, GSA

R.C.S.

Surname Copy
700
FLKnouse
Ellis
Kildegaard
Geehan
Selfridge
Hylman

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

NOV - 9 1955

Mr. Hector Fajardo, et al.
1801 S.W. 13th Avenue
Miami, Florida

Re: Docket No. DMEA-4035 (Uranium)
Mars I and II Claims
San Miguel County, New Mexico

Gentlemen:

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   c. Location, cut length, and chemical analyses of samples taken from vein.
   d. Results of the radiometric survey.
   e. Location of the proposed drill holes.

2. Describe the uranium mineralization, if known.

Two copies of this information should be forwarded to this office and the other two copies forwarded to:

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

Your application has been referred to Mr. Traver and the Regional Office will contact you if additional information is required or if a field examination of your property is to be scheduled.

Sincerely yours,

G. O. Mittenhuber (for)

Administrator

Mr. Knouse
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

FLKnouse/izm 11/8/55
cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700

R.S.G.

11/7/55 [illegible]

IN REPLY REFER TO:

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

RECEIVED
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NOV - 4 1955

November 4, 1955

Re: DMEA 4035
Hector Fajardo, et al.
Mars I and II
San Miguel Co., N. M.
$3,900.00 - Uranium

Memorandum

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

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

Subject: Review of application

The application pertains to two claims two miles northeast of the Silver Bell mine.

I have no information on this area or this prospect.

The applicants claim that they get scintillometer and geiger readings for 1,000 feet and over a thickness of two feet.

The rough sketch map which accompanies the application shows there is Government land "behind" the two claims held by the applicants. If such is the case and the prospect is deemed worth the work proposed more ground should be staked.

Probably the Field Team has information concerning this area and may be able to evaluate the application without a field examination. At any rate referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

November 4, 1955

Re: DMEA 4035
Hector Fajardo, et al.
Mare I and II
San Miguel Co., N. M.
$3,900.00 - Uranium

Memorandum

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

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

Subject: Review of application

The application pertains to two claims two miles northeast of the Silver Bell mine.

I have no information on this area or this prospect.

The applicants claim that they got scintillometer and geiger readings for 1,000 feet and over a thickness of two feet.

The rough sketch map which accompanies the application shows there is Government land "behind" the two claims held by the applicants. If such is the case and the prospect is deemed worth the work proposed more ground should be staked.

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N. E. Nelson

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NENelson:iml
G-11/4/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Kosted, 3210

11/4/55 - 5 gla

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

RECEIVED
NOV - 4 1955

November 3, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4443

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

Subject: Application for assistance, DMEA Docket 4035, Henry W. Carryl, Wayne E. Cummings, and Hector Fajardo, Mars claims, San Miguel County, New Mexico

I have reviewed the attached application, DMEA Docket 4035, Mars claims, which was dated October 24, 1955, and was received in this office October 31, 1955. I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant requests DMEA aid in a uranium exploration project which will consist of 12 holes core drilled to a depth of 130 feet on two claims located in R 23 E, T 16 N, Section 19, San Miguel County, N. Mex. The cost of drilling is listed as $2.50 per foot. Since this is the only expenditure, the total estimated cost is $3,900.

The proper evaluation of the application could be made if additional information were submitted, such as type of mineralization or ore minerals, maps showing location of radioactive formation and proposed drill sites, and the results of the sampling on the subject claims.

We recommend that the application be held in abeyance, and that the applicant be requested to furnish the additional information.

John E. Crawford
John E. Crawford

Attachment

Subject: DMEA-4035
Re: Exploration

Hector Fajardo, et al,
1801 S.W. 13th Ave.,
Miami, Florida.

October 27, 1955

Gentlemen:

The receipt of your application dated October 24, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4035 and referred to the Rare & Miscellaneous Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
OCT 27 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. 4035
Metal or Mineral Uranium
Date Received 10-27-55
Estimated Cost 3,900.
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: Hector Fajardo, 1801 S.W. 13th. Ave., Miami, Florida.
Henry W. Carryl, R T 2 Box 389, Homestead, Florida.
Wayne E. Cummings, Winfield, Iowa.
Partnership, Florida. All partners are named above.

(*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
Two claims in San Miguel county, New Mexico.
R 23 E T 16 N Section 19
Known as Mars I and Mars II

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
Claims filed on U.S. Government land.

(*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. Copy of claims can be obtained soon. Perhaps enclosed receipt is sufficient.

(*e*) If you own the land, describe any liens or encumbrances on it---

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Book 9 of M.L. page 104 and page 105

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

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

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

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

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

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

(*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 15 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated October 24, 1955

Henry W. Carryl
Wayne E. Cummings
Hector Fajardo

(Applicant)

By Hector Fajardo

1801 S.W. 13th. Avenue,

Miami, Florida.

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

4. PHYSICAL DESCRIPTION

(a) When we left our claim site in August 1955, they were core drilling on the "Silver Bell" mine about two miles southwest of us along Canyon Largo. The work was being done by the Cinderella Uranium and Oil Co. from Texas on the Johnson ranch. Eight miles northeast of our claims they are mining in Sabinoso. Six miles northeast of us is the Hunt mine in Sanchez which was producing ore in August. Nine miles south and slightly east in Trementina, at High Mesa, were indications of very good ore and they were starting to core drill in August.

We have no interest in any of these operations. With a four wheel vehicle (four wheel drive, that is) you can drive to within 200 ft. of our claim.

(b) None

(c) Our claims are on the face of a small canyon that feeds into Canyon Largo. It is almost a rock face at about a 35 degree angle. There is little vegetation and no trees. It looks like we are on the top layer of the Morrison Sandstone formation. We have a vein about two feet thick and 1,000 ft. long. We also traced the same layer of rock around to Canyon Largo and over to the next little canyon about two miles away with good readings all the way around, using a scintillator and a geiger counter. In that same layer of rock we made many bead tests and always got particles of uranium. Under the ultra violet light very good ~~fu~~ Fluorescense was found in most tests. In Santa Fe we tested some of our ore and it read .35% but the only available assay at this moment is the one enclosed in this letter.

We want to explore these claims because we believe they contain very valuable uranium deposits.

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(e) There seems to be plenty of manpower in Trujillo or Las Vegas, 37 miles from our claims. There is also plenty of materials, supplies and equipment in the area. Water can be hauled ten miles from Trujillo. Power will have to be portable.

RECEIVED OCT 27 1955

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(d) As mentioned above, the work will be done by experienced people. Will you please suggest us a qualified company? In any event, our choice will be submitted to you for your approval.

One of the applicants have been a student of geology for the past two years and the other two are college graduates in Business Administration and Science. All Three will be present during the exploration, if required, to help in any way possible.

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7. (a) Yes

(b) Money

We are ready, willing, able and anxious to furnish our share.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 50-R1035.2.

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Not to be filled in by applicant

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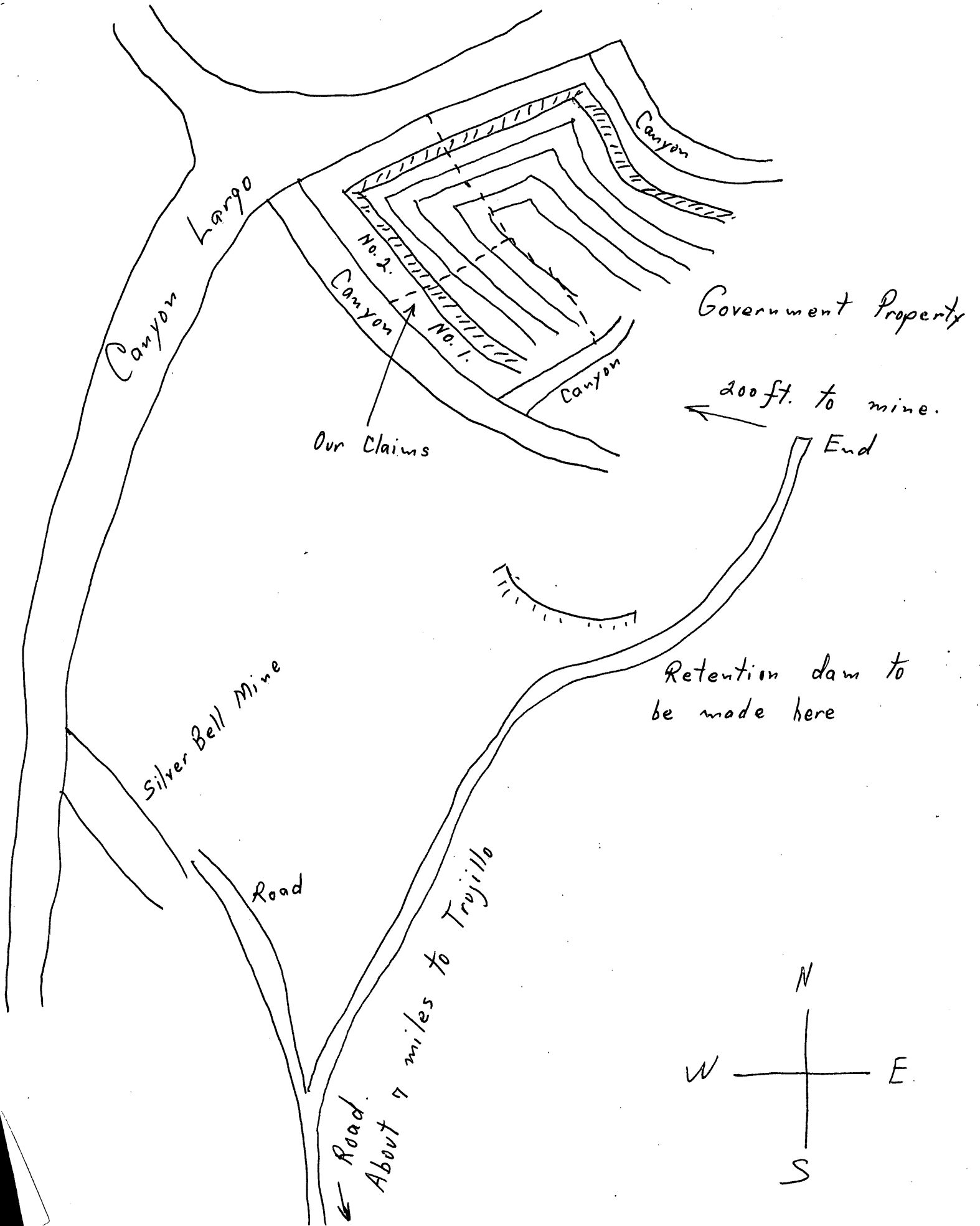

Canyon Largo
Canyon
No. 2.
Canyon
No. 1.
Canyon
Government Property
200 ft. to mine.
End
Our Claims
Retention dam to be made here
Silver Bell Mine
Road
Road
About 7 miles to Trujillo
N
W
E
S

RECEIVED
OCT 27 1955

Universal MINING & MILLING COMPANY
316 CENTRAL AVE. SE
ALBUQUERQUE, N. M.

RECEIVED
OCT 27 1955

ASSAY CERTIFICATE

Name H.W. Carryl -- c/o Manari Uranium Mining Co.

Address 506 Douglas Ave., Las Vegas, New Mexico

Date August 15, 1955

Description of Sample	Uranium	Vanadium	Tung	Copper	Lead			
	.11% U_3O_8							

Chemist Donald W. McCaig, Jr.

Charges $10.00 C.O.D.

RECEIVED
OCT 27 1955

STATE OF NEW MEXICO
Office of CLERK of SAN MIGUEL COUNTY

No 3573

July 21, 1955

RECEIVED OF Wayne E. Cummings, et al $ 2.50

Two + 50/100 DOLLARS

FOR Mine Claims # 7774 + 7775

Reception Book Page C

M. Sabalos
County Clerk

By Delos Sabalos
Clerk

OFFICIAL BUSINESS

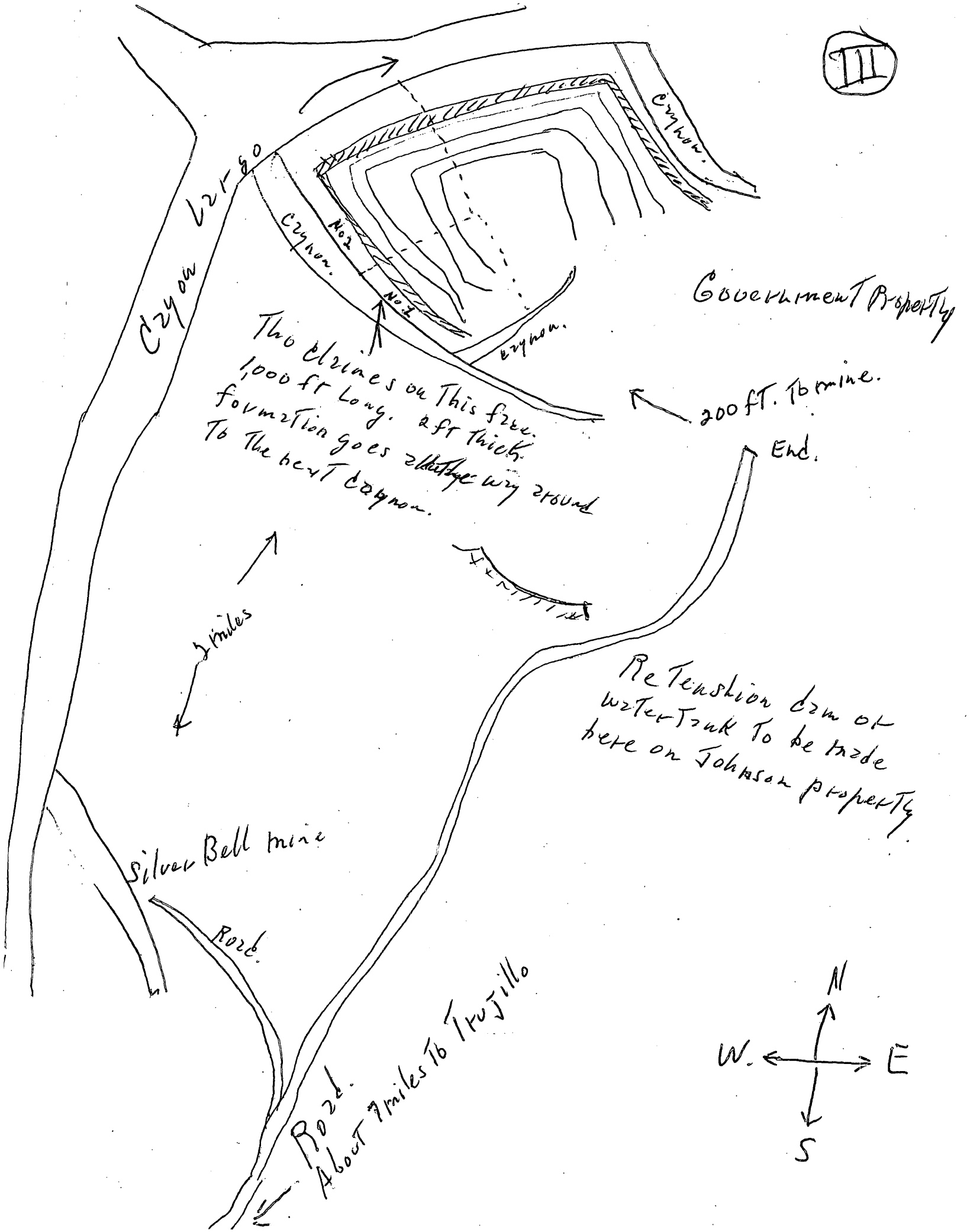
224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

20 CENTS 20

DENVER
OCT
19
7PM
1955
COLO.

Defense Minerals Exploration Administration
U. S. Department of the Interior
Interior Building
Washington 25, D. C.

III


Cryon Largo
Cryhon.
No 2
No 1
Cryhon.
Cryhon.
Government Property
The claims on This free.
1,000 ft Long. 2 ft Thick.
formation goes ~~[illegible]~~ way around
To The next Cayon.
200 ft. To mine.
End.
3 miles
Retension dam or
water Tank To be made
here on Johnson property
Silver Bell mine
Road.
Road.
About 7 miles To Trujillo
N
W.
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S

RECEIVED
OCT 27 1955