IN REPLY REFER TO:

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

RECEIVED
OCT 7 1957
D.M.E.A.

OCT 1 - 1957

Mr. Herbert A. Holt, Secretary
United Western Minerals Company
P. O. Box 921
Santa Fe, New Mexico

Dear Mr. Holt:

Mr. Frank E. Johnson of the Defense Minerals Exploration Administration has forwarded your request that Mr. F. M. Byers, Jr. of our staff be permitted to testify in a court action of W. P. Rogers and Magna Mining Company vs. United Western Minerals Company.

Your affidavit of September 9, 1957 states that you wish to have Mr. Byers testify regarding the uranium mineralization and ore reserves in the mining claims known as the Coleman Canyon Group, based on Mr. Byers' examination of these claims on August 14, 1956 in connection with an application for a DMEA loan.

It has long been the policy of the U. S. Geological Survey that we do not make public statements of the estimates of ore reserves on individual properties made by members of our staff. The determination of ore reserves in claims with limited development requires subjective appraisal by the examining geologist, and I suggest that for the purposes of your court action your company engage the services of a consulting geologist for the evaluation that you desire.

Because it is contrary to our policy, I regret that I cannot concur in your request that Mr. Byers be permitted to testify in the above court action.

Sincerely yours,

Thomas B. Nolan

Director

CAAnderson:em
Rewrite WHBradley/ldg
G - 9/27/57
cc: Survey General Files
Director's chrono file
Division Files, 4240
Branch Reading, 4212
Ned Nelson, rm. 5222 Interior
Admin., DMEA

OF THE DIRECTOR

Johnson - Selfriage C. O. Mittendorf DMEA

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

RECEIVED SEP 25

September 23, 1957

Mr. Herbert A. Holt, Secretary
United Western Minerals Company
136 W. Palace Avenue
P. O. Box 921
Santa Fe, New Mexico

4288

Dear Mr. Holt:

Your request of September 9 that permission be granted for William E. Young, a Bureau of Mines engineer, to testify at a court action regarding the Coleman Canyon Group mining claims has been forwarded to me by the Defense Minerals Exploration Administration.

It is apparent from your request that the testimony you desire from Mr. Young pertains to estimates of ore reserves made in behalf of the DMEA by the Bureau of Mines and the Geological Survey following a field examination of the claims in question. Such testimony would constitute an evaluation of the property by the Bureau of Mines.

Under these circumstances, permission cannot be granted for Mr. Young to testify at the court action as the Bureau is prohibited by law from issuing any report as to the valuation or management of any mine or other private mineral property.

PAUL ZINNER
ACTING
Director

Copy to: Director's Reading File
C. O. Mittendorf, DMEA
T. H. Kiilsgaard, USGS
J. H. East, Jr., Regional Director, Region III
F. D. Lamb
Division of Minerals
Files
Solicitor's Office

OFFICIAL FILE COPY

Date	Surname	Code
9-16	Murphy	700
9-16	Kubinke	700
		~~220~~
9/17	Jeffrey	220
		220
		~~220~~
		700

SEP 17 1957

Mr. Herbert A. Holt, Secretary
United Western Minerals Company
P. O. Box 921 - 136 W. Palace Avenue
Santa Fe, New Mexico

Re: Docket No. DMEA-4288 (Uranium)
Ace, et al., Claims and Utah
State Mineral Lease No. 7421
Garfield County, Utah

Dear Mr. Holt:

This is to acknowledge your letter of September 9, 1957, and enclosures.

The copies of your request have been forwarded to the Directors of the U. S. Bureau of Mines and the U. S. Geological Survey, with a request from this office that they inform you directly of their decisions in the matter of permitting Mr. Young, and Mr. Myers, to testify in the court action mentioned in your letter.

Sincerely yours,

Frank E. Johnson
(By esj)
Acting Administrator

FMMurphy/izm 9-16-57
cc: Mr. Murphy
Admr.'s Reading File
DMEA FT Reg. 3 (2)
USBM, Rm. 4614
UGSG, Rm. 5243, GSA Bldg.

8623

OFFICIAL FILE COPY

Date	Surname	Code
9-16	Murphy	700
9-16	Kowalke	700
		~~110~~
9/17	Selfridge	
		220
		700

September 16, 1957

Memorandum

To: Thomas B. Nolan, Director, USGS
Room 5243, G.S.A. Building

From: F. E. Johnson, Acting Administrator
DMEA, Dept. of the Interior

Subject: Government employee to act as witness in a civil action.

Enclosed are a copy of a letter, dated September 9, 1957, addressed to this Agency, and the original and two copies of a request directed to the U. S. Geological Survey by United Western Minerals Company, that Mr. F. M. Byers, Jr., be permitted to testify in a court action.

Will you kindly reply directly to the United Western Minerals Company's request. A copy of your letter would be appreciated by this Agency.

Frank E. Johnson
(by esf)
F. E. Johnson

Enclosures

FMMurphy/izm 9-6-57
cc: Mr. Murphy
Admr.'s Reading File
USBM, Rm. 4614
DMEA FT Reg. 3 (2) w/Copy of enclosures

8623

Form 7
(56)

OFFICIAL FILE COPY

Date	Surname	Code
9-16	Murphy	700
9-16	Kubaugh	700
		~~700~~
9/17	Selfridge	
		220
		700

September 16, 1957

Memorandum

To: Marling J. Ankeny, Director, USBM
Room 4614, Interior Building

From: F. E. Johnson, Acting Administrator
DMEA, Dept. of the Interior

Subject: Government employee to act as witness in a civil action.

Enclosed are a copy of a letter, dated September 9, 1957, addressed to this Agency, and the original and two copies of a request directed to the U. S. Bureau of Mines by United Western Minerals Company, that Mr. William E. Young be permitted to testify in a court action.

Will you kindly reply directly to the United Western Minerals Company's request. A copy of your letter would be appreciated by this Agency.

Frank E. Johnson
(Copy)
F. E. Johnson

Enclosures

FMMurphy/izm 9-16-57
cc: Mr. Murphy
Admr.'s Reading File
USGS, Rm. 5243, GSA Bldg.
DMEA FT Reg. 3 (2) w/copy of encosures

8623

UNITED WESTERN MINERALS COMPANY
P.O. BOX 921 - 136 W. PALACE AVE. SANTA FE, NEW MEXICO

September 9, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 13 1957
DATE | INITIALS | CODE
9-13 | C | 220
| | 100
| | 225

Mr. Frank E. Johnson
Acting Administrator
United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-4288 (Uranium)
Ace, et al., Claims and Utah
State Mineral Lease No. ML-7421
Garfield County, Utah

Dear Mr. Johnson:

We appreciate your letter of September 6, 1957, setting forth in detail the requirements for obtaining permission to have Messrs. F. M. Byers, Jr., of the U. S. Geological Survey and William E. Young, of the U. S. Bureau of Mines, testify in the case of W. P. Rogers and Magna Mining Company vs. United Western Minerals Company.

We have prepared and enclose in triplicate, affidavits addressed to the Directors of the Geological Survey and Bureau of Mines, seeking permission to have their employees testify. We would appreciate your transmitting these affidavits to the respective Government Agencies. We are making this request because these agencies might not be able to connect the request with your agency if transmitted directly.

Your cooperation in this matter is greatly appreciated.

Sincerely yours,

Herbert A. Holt

Herbert A. Holt
Secretary

HAH/ald

Enclosures

TO: DIRECTOR
UNITED STATES GEOLOGICAL SURVEY
WASHINGTON, D. C.

APPLICATION OF UNITED WESTERN MINERALS COMPANY
TO LET F. M. BYERS, JR., TESTIFY IN JUDICIAL PROCEEDINGS

STATE OF NEW MEXICO }
COUNTY OF SANTA FE } ss.

HERBERT A. HOLT, being duly sworn deposes and says,

1. That deponent is the duly elected and acting secretary of United Western Minerals Company, a Delaware corporation, licensed to do business in the States of Arizona, California, Colorado, New Mexico, Utah, and Wyoming.

2. That there is pending in the District Court of Garfield County, Utah, a civil action (No. 1665) entitled W. P. Rogers and Magna Mining Company vs. United Western Minerals Company, which has been set for trial at the District Court House in Panguitch, Utah, on October 17, 1957.

3. That said action has been instituted by the plaintiffs against defendant for the reconveyance of mining claims known as the Coleman Canyon Group, heretofore conveyed by plaintiffs to defendant.

4. That United Western Minerals Company is seeking the dismissal of the complaint and other relief, its interest in the litigation being that of owner of record of said Coleman Canyon Group of claims, and the retention of title to said claims.

5. That F. M. Byers, Jr., an employee of the U. S. Geological Survey, together with one William E. Young, an employee of the U. S. Bureau of Mines, have made a field examination of the said Coleman Canyon Group of claims.

6. That United Western Minerals Company, the defendant in the above entitled action, desires to have F. M. Byers, Jr., testify regarding the uranium mineralization and ore reserves, if any, found on said property.

7. That United Western Minerals Company is ready and willing to tender to said witness fees and allowances for expenses of

travel and subsistence authorized by the State of Colorado.

WHEREFORE, deponent requests in behalf of United Western Minerals Company that F. M. Byers, Jr., be granted permission to testify in the above captioned litigation.

_____
Secretary,
United Western Minerals Company

Subscribed and sworn to before me this_____day of September, 1957.

_____
Notary Public

My Commission Expires:

_____

OFFICIAL

TO: DIRECTOR
UNITED STATES BUREAU OF MINES
WASHINGTON, D. C.

APPLICATION OF UNITED WESTERN MINERALS COMPANY
TO LET WILLIAM E. YOUNG TESTIFY IN JUDICIAL PROCEEDINGS

STATE OF NEW MEXICO }
COUNTY OF SANTA FE } ss.

HERBERT A. HOLT, being duly sworn deposes and says,

1. That deponent is the duly elected and acting secretary of United Western Minerals Company, a Delaware corporation, licensed to do business in the States of Arizona, California, Colorado, New Mexico, Utah, and Wyoming.

2. That there is pending in the District Court of Garfield County, Utah, a civil action (No. 1850) entitled W. P. Rogers and Magna Mining Company vs. United Western Minerals Company, which has been set for trial at the District Court House in Panguitch, Utah, on October 17, 1957.

3. That said action has been instituted by the plaintiffs against defendant for the reconveyance of mining claims known as the Coleman Canyon Group, heretofore conveyed by plaintiffs to defendant.

4. That United Western Minerals Company is seeking the dismissal of the complaint and other relief, its interest in the litigation being that of owner of record of said Coleman Canyon Group of claims, and the retention of title to said claims.

5. That William E. Young, an employee of the U. S. Bureau of Mines, together with one F. M. Byers, Jr., an employee of the U. S. Geological Survey, have made a field examination of the said Coleman Canyon Group of claims.

6. That United Western Minerals Company, the defendant in the above entitled action, desires to have William E. Young testify regarding the uranium mineralization and ore reserves, if any, found on said property.

7. That United Western Minerals Company is ready and willing to tender to said witness fees and allowances for expenses of

travel and subsistence authorized by the State of Colorado.

WHEREFORE, deponent requests in behalf of United Western Minerals Company that William E. Young be granted permission to testify in the above captioned litigation.

Secretary,
United Western Minerals Company

Subscribed and sworn to before me this_____day of September, 1957.

Notary Public

My Commission Expires

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Long	
	Dwyer	
	Murphy	700
	Ellis	700
9/5	Johnson	110
		~~100~~
9/6		220
		225

SEP 6 1957

Mr. Herbert A. Smit, Secretary
United Western Minerals Company
P. O. Box 921
130 W. Pulman Ave.
Santa Fe, New Mexico

In: Docket No. DMEA-4250 (Uranium)
Ace et al. Claims and Utah
State Mineral Lease No.
ML-7421
Garfield County, Utah

Dear Mr. Smit:

Reference is made to your letter of August 29, 1957, requesting permission for Messrs. F. M. Byers, Jr., and William E. Young to testify in the District Court of Garfield County, Utah, on October 17, 1957, in Civil Action No. 1065 entitled V. F. Sowers and Mesa Minerals Company v. United Western Minerals Company.

The regulations of the Department of the Interior (43 Code of Federal Regulations, section 2.20) require that a request for an employee of the Department to testify in a judicial or administrative proceeding concerning a matter related to the business of the Government or the contents of official records must be by written statement in the form of an affidavit, setting forth the interest of the litigant, and the information with respect to which the employee's testimony is desired as a condition to granting or denying the request.

My letter of August 24, 1957, advised you that F. M. Byers, Jr., and William E. Young are employees of the Geological Survey and U. S. Bureau of Mines, respectively. Consequently, your request will have to be approved by the Directors of the respective agencies. As a general rule, these agencies prefer that an employee appearing as a witness in his official capacity on behalf of a private party do so under subpoena, rather than voluntarily, in order to negative any inference that the Government favors either side in the litigation.

It is understood that your company will tender the witness fees and allowances for expenses of travel and subsistence authorized by the State of Colorado.

Sincerely yours,

Frank E. Johnson (for)

ACTING Administrator

RWLong/cmd 9/5/57
Copy to: DMEA Docket
Director, Bu. Mines
Director, Geo. Survey
Adm. Reading File
Field Team, Reg. III (2)
E. W. Ellis
E. F. Dwyer
R. W. Long

8623

Cap

Better rely on legal to keep crap reply & spell out that questions to be asked must be spelled out in affidavit. Survey & Bureau will, of course, oppose any questions the answ[illegible] to which represent a professional opinion — & that is just what this guy wants!

M

RECEIVED
SEP - 4 1957
ASSOC. SOLICITOR
MINERAL RESOURCES

UNITED WESTERN MINERALS COMPANY
P.O. BOX 921 - 136 W. PALACE AVE.
SANTA FE, NEW MEXICO

RECEIVED
SEP - 4 1957
ASSOC. SOLICITOR
MINERAL RESOURCES

August 29, 1957

SOLICITOR
SEP 4 1957
INTERIOR DEPT.

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 3 1957

DATE	INITIALS	CODE
9/3	C	220
3	[illegible]	100
"	FMM	700
		225

Mr. C. O. Mittendorf, Administrator
United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-4288 (Uranium)
Ace, et al., Claims and Utah
State Mineral Lease No. ML-7421
Garfield County, Utah

Dear Mr. Mittendorf:

We appreciate your letter of August 26, 1957, furnishing the names and addresses of the Defense Minerals Exploration Administration field examiners, who made an inspection of the above referenced lands.

There is an action pending in the District Court of Garfield County, State of Utah, entitled W. P. Rogers and Magna Mining Company vs. United Western Minerals Company, Civil No. 1665.

The case has been set for trial at Panguitch, Utah on October 17, 1957, and may continue through October 18.

United Western Minerals Company would like to have Messrs. F. M. Byers, Jr., and William E. Young testify about the uranium mineralization and deposits, or lack thereof, on the properties known as the Coleman Canyon Group of Claims, and related questions. The witnesses will be expected to give such information as they have acquired as a result of their field examination of said properties.

We hereby request the permission of the Defense Minerals Exploration Administration to have Messrs. Byers and Young testify as witnesses in the above designated lawsuit.

Your advice will be appreciated regarding any other requirements of the Government, for instance, whether it is necessary to serve subpoenas and tender attendance and mileage fees, and if so, what the applicable rates are.

Your cooperation is greatly appreciated.

Sincerely yours,

Herbert A. Holt

Herbert A. Holt
Secretary

HAH/ald

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8/23	Ellis	700
		130
8/23	Lorman	110
"	Mitendorf	100
8/23	Bishop	130
8/23	Hildegaard	130
8/23	Selfridge	130
8/26	RD	220
		225

AUG 26 1957

Mr. Alva A. Simpson, Jr., President
United Western Minerals Company
P. O. Box 921 - 136 W. Palace Ave.
Santa Fe, New Mexico

Re: Docket No. DMEA-4288 (Uranium)
Ace, et al., Claims and Utah
State Mineral Lease No. ML-7421
Garfield County, Utah

Dear Mr. Simpson:

Your letter, dated August 14, 1957, requesting the names and addresses of the DMEA field examiners, who made an inspection of the above-referenced lands, has been referred to this office for reply.

The examination was made on August 14, 1956, by F. M. Byers, Jr., of the U. S. Geological Survey, and William E. Young of the U. S. Bureau of Mines with you present as the Applicant's representative. The office of these men is located at 224 New Customhouse Building, Denver 2, Colorado.

It is noted that you require the above information in connection with a lawsuit. We wish to inform you that if you desire to have these men as witnesses in a suit, it will be necessary to obtain the Government's permission. This is in accordance with the Code of Federal Regulations, Title 43, Subtitle A - Office of the Secretary of the Interior, Part 2, "Records and Testimony" under paragraph 2.2 of "Testimony of Employees."

Sincerely yours,

C. O. Mitendorf (for)

Administrator

FMMurphy/EWEllis/izm (8-20-57) 8-23-57
cc to: Mr. Murphy
Admr.'s Reading File
Operating Committee
EWEllis
GCSelfridge
DMEA FT Reg. 3 (2)
THKiilsgaard, 5224

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8/20	Murphy	700
8/20	Ellis	700
		130
		100
		100
		312
		220

Yoyes noted

Mr. Alva A. Simpson, Jr., President
United Western Minerals Company
P. O. Box 921 - 136 W. Palace Ave.
Santa Fe, New Mexico

Re: Docket No. DMEA-4288 (Uranium)
Ace, et al., Claims and Utah
State Mineral Lease No. ML-7421
Garfield County, Utah

Dear Mr. Simpson:

Your letter, dated August 14, 1957, inquiring the names and addresses of the DMEA field examiners, who made an inspection of the above-referenced lands, has been referred to this office for reply.

The examination was made on August 14, 1956, by F. M. Byers, Jr., of the U. S. Geological Survey, and William E. Young of the U. S. Bureau of Mines with you present as the Applicant's representative.

It is noted that you require the above information in connection with a lawsuit. We wish to advise you that in the event you desire to have these men act as witnesses in a suit, it will first be necessary to obtain the Government's permission. ~~since data obtained as a result of our examinations are considered confidential and for the use of the Government only.~~

Sincerely yours,

Administrator

FMMurphy/izm 8-20-57
cc to: Mr. Murphy
Admr.'s Reading File
THKiilsgaard, 5224
DMEA FT Reg. 3 (2)
Oper. Corr.

8623

(*) The ~~[illegible]~~ office of these men is located at 224 New Customhouse Bldg., Denver 2, Colorado.

(**) This is in accordance with the Code of Federal Regulations, Title 43, Subtitle A - Off. of the Sec. of Int., Part 2 - "Records and Testimony" under paragraph 2.2 of "Testimony of Employees".

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

August 16, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 19 1957

DATE	NAMES	CODE
8/18	C	220
19	Com	100
		~~700~~
8/19	Jed	110
11	FGM	700

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 4288 (Uranium) United Western Minerals Company (Ace, et al., Claims and Utah State Mineral Lease No. ML-7421) Garfield County, Utah

Enclosed for your consideration and reply is a letter from Mr. Simpson, which requests information not within our authority to answer.

Also enclosed is a copy of our letter to Mr. Simpson acknowledging receipt of his request.

E. N. Harshman

E. N. Harshman

See no reason for not giving names and advising where they can be contacted; but also advising the necessity of having Government's permission to act as witnesses.

FEJohnson

UNITED WESTERN MINERALS COMPANY

P.O. BOX 921 - 136 W. PALACE AVE. SANTA FE, NEW MEXICO

August 14, 1957

DMEA
DEPARTMENT OF THE INTERIOR
AUG 16 1957
REGION III
DENVER, COLORADO

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

Re: Docket No. DMEA-4288 (Uranium)
United Western Minerals Company
Ace, et al., claims and
Utah State Mineral Lease No. ML-7421
Garfield County, Utah

Dear Mr. Traver:

Kindly advise us who conducted the actual field inspection in connection with the above captioned application for a DMEA loan and also furnish the address of the officer or officers. We need this information in connection with a law suit pending in the District Court of Garfield County, Utah.

Sincerely yours,

Alva A. Simpson

Alva A. Simpson, Jr.
President

AAS/ald

Simpson was present when Byers & Young made the exam. Off hand, I can't think of a good reason why we can't give the names. (only). Perhaps we can stall by asking the nature of the suit & if good witnesses are contemplated M—

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 19 1957

DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado

August 16, 1957

8/18 220
700

Mr. Alva A. Simpson, Jr., President
United Western Minerals Company
P.O. Box 921 - 136 W. Palace Ave.
Santa Fe, New Mexico

Re: Docket No. DMEA 4288 (Uranium)
United Western Minerals Company
Ace, et al., Claims and Utah
State Mineral Lease No. ML-7421
Garfield County, Utah

Dear Mr. Simpson:

We acknowledge receipt of your letter dated August 14, 1957, which requests certain information connected with the application included under the captioned docket number.

Release of this information is not within the authority delegated to this office. Accordingly, your letter is being forwarded to our Washington Office, DMEA, for their reply.

Very truly yours,

E. N. Harshman

E. N. Harshman
Acting Executive Officer

MHM:eh

cc: Ch. Op. Comm. (2)
Harshman
Hasler
DMEA/G.Jct.
DMEA/DFC
Docket
Chron.

700

FILE COPY

Surname:

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

NOV 27 1956

Mr. Alva A. Simpson, Jr., President
United western Minerals Company
136 west Palace Avenue
Santa Fe, New Mexico

Re: Docket No. DMEA-4283 (Uranium)
Ace, et al., Claims and Utah State
Mineral Lease No. ML-7421
Garfield County, Utah

Dear Mr. Simpson:

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

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/izm 11-26-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

RCS.

Docket
Code 700.

Murphy
Ellis
R Johnson

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4288

Commodity: Uranium

Applicant: United Western Minerals Company
Mr. Alva A. Simpson, Jr., President
136 West Palace Avenue
Santa Fe, New Mexico

Property Rights: Owner by purchase of 67 claims, Ace 1-12 incl., Camp 1-10 incl., Chunk 1, Fools Gold 1-4 incl., Jerry 1-3 incl., Long Walk 1-20 incl., Tite 1, Walks 5-20 incl.; situated in secs. 3, 4, 5, 8, 9, and 17, also Utah State Mineral lease on the N½ of sec. 16, all in T. 32 S., R. 7 E., Garfield County, Utah.

Date of Application: April 4, 1956 (received May 21)

Amount of Application: $36,694.00

Referred to Region III: June 18, 1956

Field Examination made: August 14, 1956

Field Team Report received: October 31, 1956

Work Proposed and Estimated Cost:

Road construction	$600.00	
3,985 ft. non-core drilling (AreaA)	7,000.00	
Rim stripping Area B (shale)	1,800.00	
" " " " (sandstone)	3,000.00	
" " " C (shale)	4,000.00	
Moving 1,100 tons Shinarump conglomerate	1,200.00	
Labor, Supervision, Consultants	8,650.00	
Operating materials and supplies	2,040.00	
Operating equipment (depreciation)	1,283.00	
New buildings, etc.	645.00	
Miscellaneous	3,140.00	
Contingencies	3,336.00	
TOTAL		$36,694.00

Excerpts from Field Team Report:

The property is on the Waterpocket Fold, a prominent east-dipping monocline that extends for about 50 miles northerly.

The oldest formation exposed on the property is the Moenkopi formation, of which about 100 feet is exposed as an inlier in the lower part of south Coleman Canyon.

The Shinarump conglomerate (classed as Monitor Butte by USGS) occurs as thin discontinuous lenses, not over 10 feet thick and 100 feet in exposed width, between the Moenkopi and overlying Chinle formation.

The Shinarump lenses where exposed are weakly mineralized and contain fragments of radioactive carbon, which might assay over 1% U_3O_8.

The Applicant has completed 3 drill holes in Area A, 2 holes were bottomed above the Moenkopi contact and the third is reported by the Applicant to have penetrated 1 foot of 0.207% U_3O_8. Three other holes were drilled on Walk 14 claim. One of these holes is reported to be mineralized and the others barren.

The subject property, although containing mineralized conglomerate lenses, is in a general region of about a 10-mile radius that is known to contain only small ore bodies in the 100-ton class or less. The basal contact of the Shinarump lenses are scoured but a few feet into the Moenkopi, which indicates there is little hope that the thin pods of known ore might lead to a larger deposit.

Because of the unfavorable geologic enviroment of the property the field examiners and Field Team recommend denial of the application.

Commodity Member's Comments: (excerpts)

USBM, J. E. Crawford, November 8, 1956:

Mr. Crawford recommended that the application be denied.

USGS, W. P. Williams, November 21, 1956:

Mr. Williams concurs in the Field Team's recommendation for denial. He agrees with the field examiners that because the potential ore host on the property is thin and discontinuous there is little possibility of discovering significant ore deposits by additional drilling.

Rare & Miscellaneous Metals Division, F. M. Murphy, November 26, 1956:

The field examination indicates that the potential ore-bearing Shinarump in the area of the property is thin and discontinuous, and its contact with the underlying Moenkopi is in the form of very shallow scours. Moreover, where exposed it is only slightly mineralized.

Conclusion and Recommendation:

It appears that there is little possibility that ore deposits in excess of the 100-ton class would be found by further exploration work on the subject property. Therefore, this Division concurs in the Field Team's recommendation that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division

11/23/56

IN REPLY REFER TO:

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

RECEIVED
NOV 23 1956
D.M.E.A.

November 21, 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 4288, United Western Minerals Company, South Coleman Canyon claims, Circle Cliffs, Garfield County, Utah (uranium)

The field examiners report that only about 50 tons of ore have been produced from the general vicinity of the applicant's property. The Monitor Butte member (the potential ore host) of the Chinle formation on the property is discontinuous and not over 10 feet thick.

Six holes have been drilled on the property, but the results are not well defined--either by the applicant or the examining team. One hole is "reported to have penetrated 1 foot 0.207 percent eU_3O_8." The examining team's assertion that the property is unfavorable because of low geiger counter readings on outcrops is not very convincing because the uranium products present may not be in equilibrium. No chemical assays of samples are given, although such would be desirable.

The fact that the Monitor Butte member is so thin and discontinuous, however, sheds very unfavorable light on the proposed project. There does not seem to be any chance that a significant discovery would be made, and for that reason I concur with the examining team's recommendation for denial of the application.

W. P. Williams

W. P. Williams

11-9-56

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

RECEIVED NOV 9 1956 DMEA

Date 11/8/56

DMEA Docket No. 4288
DMEA Contract No.
Commodity Uranium
Name of applicant United Western Minerals Co.
Name of property South Coleman Canyon Claim Group
Location of property Garfield County, Utah
Estimated cost of project $36,694.00

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee
From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee
Subject: Review of Field Team Report
(Application, Field Team Report, etc.)

1. Date of subject document: Oct. '56 2. Date received by reviewer: 11/7/56.
3. Prior reports on this property known to reviewer: Yes ☐ No ☐
4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐
5. Information available on past production: Yes ☐ No ☐
6. Other pertinent factors known to reviewer: Yes ☐ No ☐
7. Explain items marked yes above:

8. Factors needing special consideration:
a. Location ☐
b. Ownership ☐
c. Evidence of mineralization ☐
d. Geology ☐
e. Proposed exploration method ☐
f. Alternate exploration method ☐
g. Costs ☐
h. ☐

9. Action advised:
a. Obtain information from applicant ☐
b. Refer to Field Team ☐
c. Denial [x]
d. Agree with Field Team [x]
1. Consult with Mr. ____ at ____ AEC office.
e. Disagree with Field Team ☐
f. Suggest alternate plan ☐
g. Request another examination ☐
h. Approval ☐

10. Remarks: (Use back of page if necessary)

Mr. J. O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

11-5-56

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

RECEIVED
OCT 31 1956
D.M.E.A.

224 New Customhouse
Denver 2, Colorado

October 29, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Report of Examination Docket DMEA 4288 (Uranium) United Western Minerals Company (South Coleman Canyon Claim Group) Garfield County, Utah

Enclosed are the original and three copies of an Engineering and a Geologic Report of Examination on the subject property.

The field examiners concur that there appears little chance of making a significant discovery of uranium ore on this property, 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

Reviewed by
DMEA OPERATING COMMITTEE
11-5-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

IN REPLY REFER TO:
MINERAL DEPOSITS

TRANSMITTED

RECEIVED OCT 31 1956 D.M.E.A.

OCT 24 1956
GEOLOGICAL SURVEY
DENVER, COLORADO

OCT 29 1956

October 23, 1956

DEPARTMENT OF THE INTERIOR
OCT 26 1956
REGION III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: F. M. Byers, Jr.

Subject: DMEA 4288 (Uranium), United Western Minerals Company, South Coleman Canyon claim group, Garfield County, Utah. Transmittal of geologic report.

United Western Minerals Company, 136 W. Palace Ave., Santa Fe, New Mexico, applied for DMEA assistance to explore 67 claims, known as the South Coleman Canyon claim group, northern Circle Cliffs region, Garfield County, Utah. Total cost of the proposed DMEA project is $36,694.00, with Government participation at 75 percent.

The field examination was made August 14 by F. M. Byers, Jr., U. S. Geological Survey, and William E. Young, U. S. Bureau of Mines.

The general geologic setting of the property is extremely unfavorable. Although the base of the Chinle formation is exposed in many of the adjacent canyons, no more than 50 tons of low-grade uranium ore have been produced within a 10-mile radius of the applicant's property. The ore-bearing host rock is a conglomeratic sandstone that crops out in small, discontinuous lenticular exposures at the base of the Chinle. This host rock was thought to be the Shinarump conglomerate by the examining team, but recent work by the U. S. Geological Survey field parties in the area has demonstrated these exposures to be the Monitor Butte member of the Chinle formation. There appears little chance of making a significant discovery on the property and the examining team recommends that the application be denied. I concur with the recommendations of the examining team.

Enclosed are 12 copies of the report, including maps and the applicant's brochure.

F. M. Byers, Jr.
For J. William Hasler,
Geologist

Reviewed by
DMEA OPERATING COMMITTEE
11-5-56
(date)

FMB/mlr
cc: S. R. Wilson w/enclosure

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 12, UTAH

DMEA
DEPARTMENT OF THE INTERIOR
SEP 20 1956
REGION III
DENVER, COLORADO

TRANSMITTED
OCT 29 1956

September 18, 1956

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA 4288 (Uranium), United Western Minerals Co. (Ace, et al., claims), Garfield County, Utah

Enclosed are the original and 10 copies of an engineering report covering examination of property of United Western Minerals Co., Garfield County, Utah. W. E. Young prepared the report as a result of an examination made jointly with Frank Byers of the Geological Survey. Also included is one copy of the brochure.

The applicant has requested a loan of $36,694 to conduct exploration consisting principally of noncore drilling and bulldozer trenching. The property controlled by the applicant consists of 67 lode mining claims held by right of location and 320 acres of land held by lease from the State of Utah. The property covers an area a short distance north of Circle Cliffs on the Water Pocket fold. Contacts of the Moenkopi-Shinarump and Moenkopi-Chinle formations are exposed for several miles in the vicinity of the property. Known uranium mineralization is found in the basal part of the Shinarump formation. The mineralization is weak and erratically distributed. The applicant is presently drilling in the area, but has not encountered significant mineralization. Extensive exploration in this area and in the Circle Cliffs area has revealed little uranium ore of economic importance.

The examining engineer recommends that the request for Government assistance be denied. The uranium occurrences are too weak and erratic to warrant Government participation in exploration. I am in accord with the engineer's recommendation.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

cc: W. H. King
J. B. Clemmer

Reviewed by
DMEA OPERATING COMMITTEE
11-5-56
(date)

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
SEPTEMBER 1956 DOCKET 4288

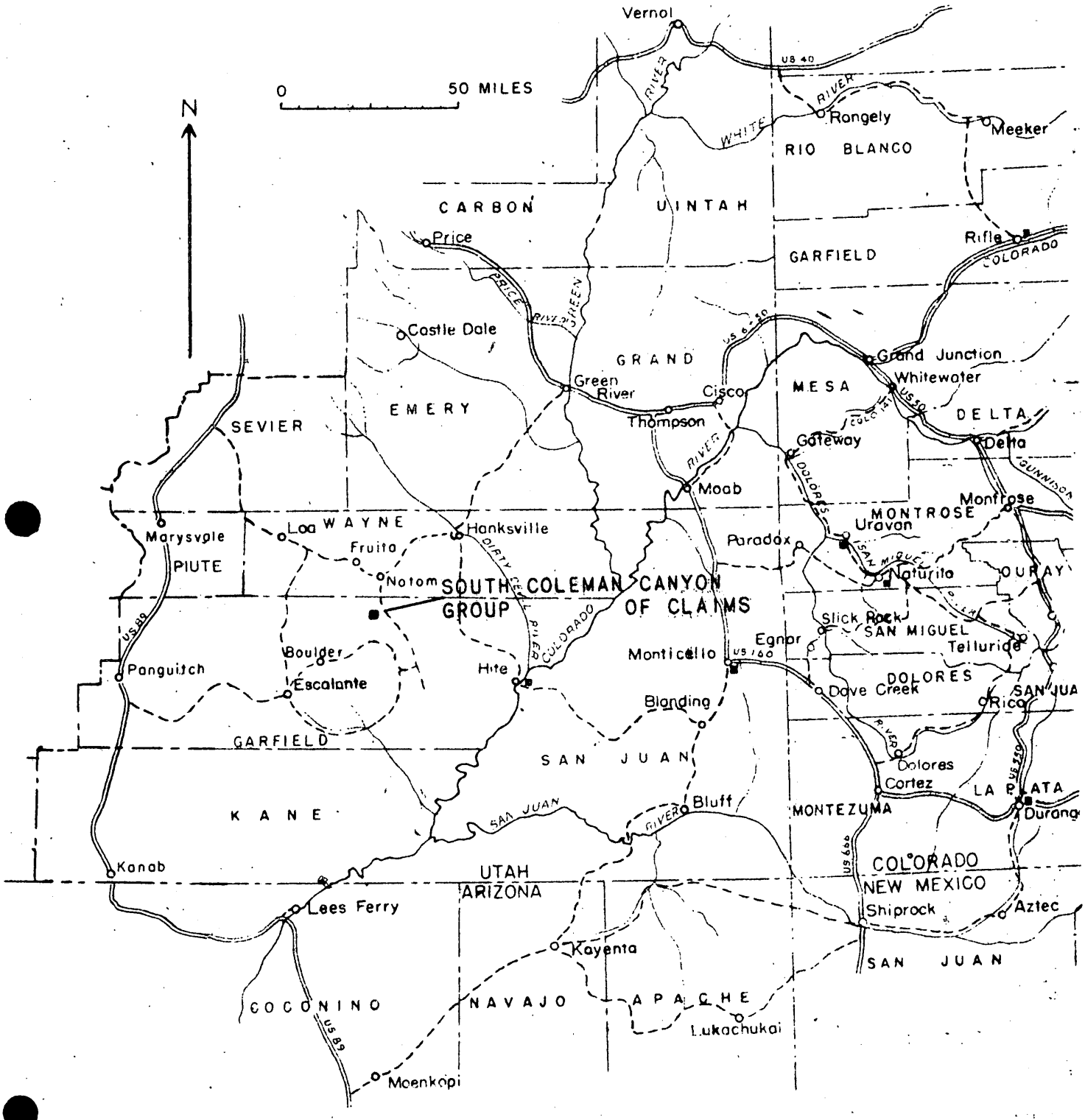

FIGURE 1.--INDEX MAP OF PART OF COLORADO PLATEAU REGION SHOWING LOCATION OF SOUTH COLEMAN CANYON GROUP OF CLAIMS, UNITED WESTERN MINERALS COMPANY, GARFIELD COUNTY, UTAH.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
SEPTEMBER 1956 DOCKET 4288

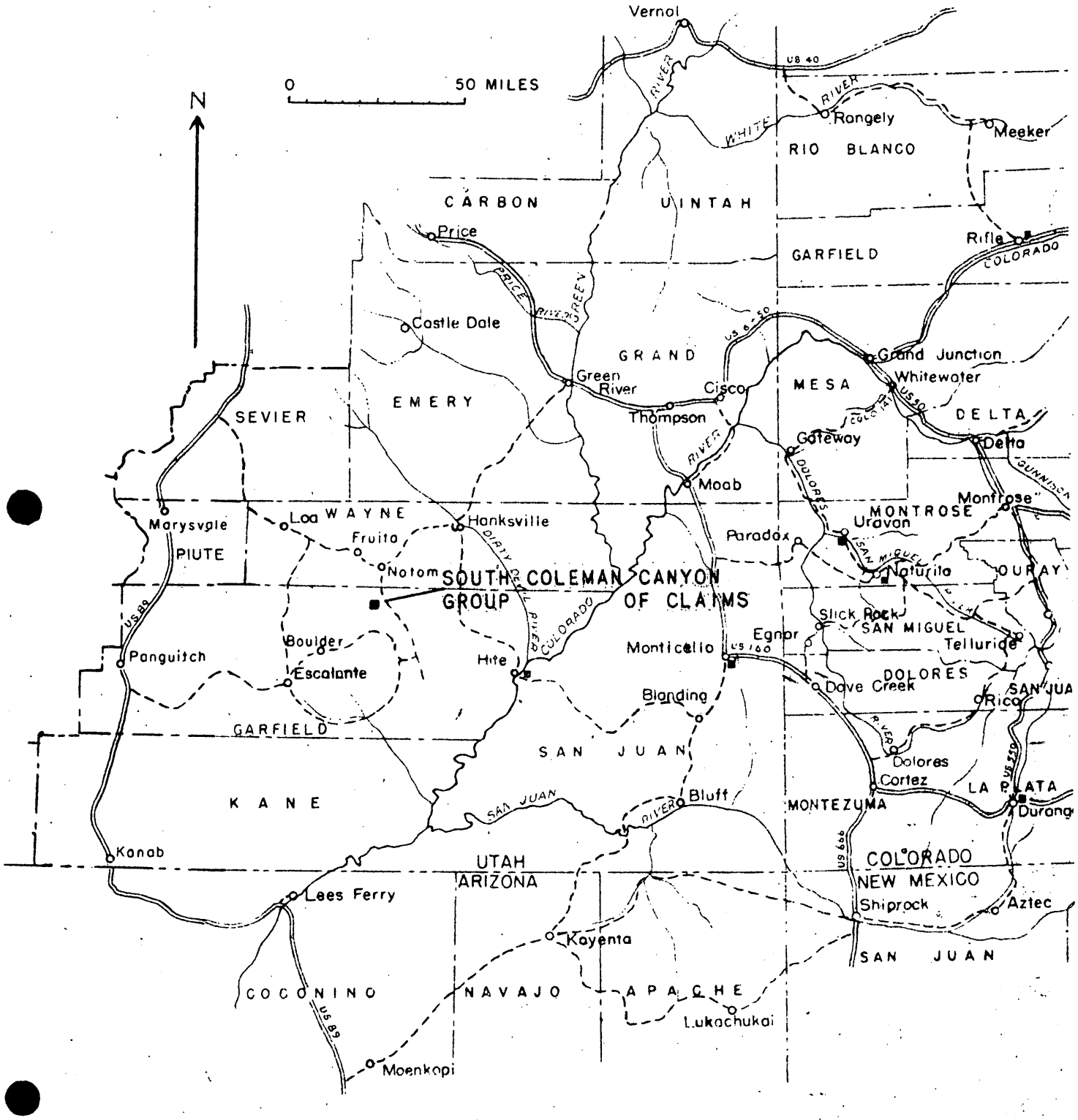

FIGURE 1.--INDEX MAP OF PART OF COLORADO PLATEAU REGION SHOWING LOCATION OF SOUTH COLEMAN CANYON GROUP OF CLAIMS, UNITED WESTERN MINERALS COMPANY, GARFIELD COUNTY, UTAH.

RECEIVED
OCT 31 1956
D.M.E.A.

DMEA 4288

UNITED WESTERN MINERALS COMPANY

INTRODUCTION AND SUMMARY

United Western Minerals Company, 136 West Palace Avenue, Santa Fe, New Mexico, has applied for DMEA assistance to explore their Ace 1 to 12, Camp 1 to 10, Chunk 1, Fools Gold 1 to 4, Jerry 1 to 3, Tite 1, Walk 5 to 20, and Long Walk 1 to 20 claims in the northern Circle Cliffs region, Garfield County, Utah. These claims are collectively referred to as the South Coleman Canyon claim group in the applicant's brochure. Total cost of their proposed exploration project would be $36,694.00, Government participation at 75 percent.

The field examination was made August 14 by F. M. Byers, Jr., of the U. S. Geological Survey, and William E. Young of the U. S. Bureau of Mines. Mr. Alva A. Simpson, Jr., president of the company, represented the applicant.

The region surrounding the applicant's property for a radius of 10 miles has produced only slightly more than 50 tons of low grade ore. The general geologic environment of the mineralized Shinarump conglomerate lenses on the applicant's property is regarded as unfavorable. Therefore, there appears little chance of making a significant discovery, and it is recommended that the application for DMEA assistance be denied.

LOCATION AND ACCESSIBILITY

The South Coleman Canyon claim group of United Western Minerals Company occupies an amphitheater ringed by Wingate cliffs in the south Coleman Canyon. This canyon is reached by a series of roads beginning with the junction of Utah State route 24 and U. S. Highway 6-50, four miles west of Green River, Utah. One proceeds 88 miles southerly on Utah 24 through Hanksville, Utah, to another junction to the left at Notom Ranch. This junction is also marked by several signs indicating various properties. From the Notom Ranch turn-off one proceeds 13.2 miles southerly to a third junction consisting of a bulldozer road marked by a sign pointing westerly to the United Western Minerals property. This bulldozer road proceeds westerly through a narrow defile to the applicant's property in south Coleman Canyon. At the time of the examination August 14, the bulldozer road was being repaired, owing to a flash flood the day before. The nearest town is Hanksville, Utah, 52 miles away by unpaved secondary road.

ACKNOWLEDGEMENTS

The examining team was assisted on the property by Alva A. Simpson, Jr., president of United Western Minerals Company.

David A. Brew of the U. S. Geological Survey and W. David Grundy, geologist of the U. S. Atomic Energy Commission, provided information on the ore-producing potential of the surrounding area.

PRODUCTION

There has been no production of uranium ore from the property. The only significant production from the Chinle or Shinarump within a radius of 10 miles has been about 50 tons of low grade ore from claims in Oak Creek Canyon, 6 miles N. 30° E. of the subject property.

GEOLOGY

The south Coleman Canyon claim group of United Western Minerals is on the Waterpocket Fold, a prominent east-dipping monocline that extends for about 50 miles northerly. In its southerly portion it forms the eastern flank of the Circle Cliffs upwarp. South Coleman Canyon is on the northernmost extremity of the Circle Cliffs upwarp. Beds dip as much as 30 degrees north-easterly in lower part of southColeman Canyon, but are nearly horizontal in the uppermost part.

The oldest formation exposed on the property is the Lower Triassic Moenkopi formation, of which about 100 feet is exposed as an inlier in the lower part of south Coleman Canyon (fig. 2).

The Shinarump conglomerate (Monitor Butte, according to E. S. Davidson, project geologist, USGS) occurs as thin discontinuous lenses, not over 10 feet thick and 100 feet in exposed width, between the Moenkopi and overlying Chinle formation. These lenses are too small to show on figure 2. The lenses scour into the Moenkopi only 1 or 2 feet and in cross section are seen to be more convex upward into the Chinle. The Shinarump conglomerate contains much clay and silt detritus, radioactive carbon, and altered volcanic material (?) and light gray claystone pebbles, which appear

to be altered pumiceous fragments. The general impression is that the Shinarump in this area is rather impermeable and therefore a poor host rock for deposition of uranium ore.

The Chinle formation is about 500 feet thick and in outcrop forms large slump blocks on the slopes of south Coleman Canyon. The formation is largely mudstone and siltstone. The next overlying Wingate and Kayenta formations form a 400-foot vertical cliff that encloses the amphitheater part of south Coleman Canyon (see figure 2).

ORE DEPOSITS

The lenticular Shinarump sandstone outcrops were examined in the northeast part of Walk 13 claim, Area A, where the applicant's representatives believe are the best mineralized exposures. These exposures are weakly mineralized and contain fragments of radioactive carbon, which might assay over 1 percent U_3O_8. The maximum exposed thickness is about 5 feet; Mr. Simpson claims that under debris from a bulldozer road, the channel is 7 feet thick and scours into the Moenkopi 3 feet. Samples of ore grade have been collected, as reported by Mr. Simpson, but the DMEA geologist's opinion, based on Geiger counter tests, is that the Shinarump lenses as a whole would be considerably less than ore grade, although samples at preferred locations could probably be taken to yield material of ore grade. The Moenkopi underlying the Shinarump conglomeratic sandstone lenses is bleached light gray through a maximum thickness of 2 feet.

Three drill holes, whose precise locations were not furnished and therefore not shown on figure 2, were drilled by the applicant just behind

the mineralized Shinarump outcrops on Walk 13 claim, Area A. One of these holes is reported by the applicant to have penetrated 1 foot of 0.207 eU_3O_8. The other two holes were bottomed above the Moenkopi-Shinarump contact. Three holes, whose locations are shown on Figure 2, were drilled on the Walk 14 claim. These were drilled at proposed DMEA sites shown in the applicant's brochure. Holes 1 and 2 are barren; hole 3 was bottomed during the DMEA examination and reported by the driller to be mineralized. Hole 2 penetrated 2½ feet of light gray silty questionable Shinarump, but hole 1 penetrated no Shinarump at all. No report was received on the Shinarump thickness in hole 3.

The area proposed for rim stripping on Walk 9 claim, Area B (fig. 2), is underlain by a Shinarump lens whose maximum exposed thickness is about 8 feet and whose outcrop exposure is about 100 feet in exposed width. The lower one foot of this Shinarump exposure is weakly mineralized; the upper part was inaccessible. The underlying Moenkopi is bleached through a thickness of 1½ feet.

The other area proposed for rim stripping is on Walk 7 and 18 claims, Area "C" (fig. 2), where an 18-foot adit has exposed a similar lens of Shinarump conglomerate. Mineralization in this lens is likewise below ore, and even somewhat lower than lenses exposed in Areas A and B.

APPLICANT'S PROPOSED EXPLORATION

The applicant proposed in Area A (fig. 2) to drill 19 non-core rotary holes aggregating 3,985 feet. Three of these proposed holes had been drilled at the time of examination. Drill access roads totalling 2,500 feet were also proposed. In Area B the applicant proposed rim-stripping 1,800 cubic yards of overburden and 1,200 cubic yards of Shinarump conglomerate. The applicant further proposed "to virtually mine and sample" 1,100 tons of the conglomerate; this proposal could not, of course, be considered under DMEA. In Area C, the applicant proposed stripping 4,000 cubic yards of overburden on both sides of the Wash to expose a Shinarump outcrop for a length of 500 feet. Total cost of all work in Areas A, B, and C would be $36,694.00. Inasmuch as the examining geologist is going to recommend denial of the application, the applicant's program is not discussed further and no alternate program is proposed.

CONCLUSIONS AND RECOMMENDATIONS

The South Coleman Canyon claim group of United Western Minerals Company, although containing mineralized Shinarump conglomerate lenses, is in a general region of 10-mile radius, that is known to contain only small ore bodies in the 100-ton class or less. The only hope is that the thin pods of ore in the Shinarump lenses might lead to a larger deposit, however, no such larger deposits are known in the general region. Furthermore, the basal contact of the Shinarump lenses are scoured but a few feet into the underlying Moenkopi. There appears little chance of making a discovery of any more than 100 tons of uranium ore.

Because of the above unfavorable geologic environment, it is recommended that the DMEA application of United Western Minerals Company under Docket 4288 be denied.

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

OCT 29 1956

RECEIVED
OCT 31 1956
L.N.E.A.

UNITED WESTERN MINERALS CO.
ACE, ET AL., CLAIMS
GARFIELD COUNTY, UTAH
DMEA-4288
Uranium

Engineering Report

By W. E. Young
Mining Engineer
Bureau of Mines

September 14, 1956

Reviewed by
DMEA OPERATING COMMITTEE
11-5-56
(ACEC)

RECEIVED
OCT 31 195
U.M.E.A.

UNITED WESTERN MINERALS CO.
ACE, ET AL., CLAIMS
GARFIELD COUNTY, UTAH

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Ownership, history and production	3
Description of the deposits	4
Proposed exploration	6
Project costs	6
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ILLUSTRATIONS

Fig. 1 Location map, United Western Minerals Co., Ace, et al., claims, Garfield County, Utah
Fig. 2 Claim map showing geology
Fig. 3 Location, proposed holes, area "A"

SUMMARY

The Ace, et al., claims of the United Western Minerals Co., known as the South Coleman Canyon group, cover an outcrop of the Shinarump formation. Erosional action in forming South Coleman Canyon has exposed a large expanse of contact between the Shinarump and Moenkopi formations. The property owners constructed an access road into this area at great expense, and presently are engaged in rotary noncore drilling. Application for DMEA assistance has been made. The proposed project, as outlined by the applicant, entails a loan of $36,694. Much of the expense is incidental to stripping and mining, which are not services of DMEA.

INTRODUCTION

The South Coleman Canyon group of claims, owned by the United Western Minerals Co., was examined August 14, 1956, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. The examination was made at the request of the Regional Field Team to determine the advisability of granting a Government-assistance loan. Alva A. Simpson, president, accompanied the examining personnel during the period.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The claim group which the applicant proposes to explore lies on the Water Pocket fold just north of the Circle Cliffs area (fig. 1). South Coleman Canyon is a narrow, steep-walled canyon cut through

the hard rocks of a monoclinal flexure, which widens to a broad valley in the higher, horizontal beds. The constricted section, through Wingate, Navajo and Entrada sandstone, is about 1,500 feet long. Many sections of this section are too narrow for vehicle passage. The company blasted a road through this at great expense. Suitable roads have been constructed to Shinarump rim locations in the upper valley.

The claims are located in secs. 3, 4, 5, 8, 9, and 17, T. 32 S., R. 7 E., S.L.B. and M. The company has a lease on the north half of section 16, which is Utah State land (fig. 2).

The nearest shipping point is Green River, Utah. The ore haul is 112 miles, 36 of which is paved. The remaining 76 miles is rough, poorly graded, dirt road. The nearest town is Loa, Utah, which is 65 miles to the northeast.

OWNERSHIP, HISTORY AND PRODUCTION

Sixty-seven unpatented claims and the north half of section 16 are involved in the proposed exploratory project. The claims are held by right of location. The half section is leased from the State of Utah.

Following is a list of claims:

Name of Claim	Book	Page
Ace 1 to 10, inclusive	49	234 - 243
Ace 11 and 12	69	234 - 235
Camp 1 to 10, inclusive	69	224 - 233
Chunk 1	49	233
Fools Gold 1 to 4, inclusive	58	179 - 182
Jerry 1 to 3, inclusive	69	236 - 238
Long Walk 1 to 20, inclusive	45	152 - 171
Tite 1	45	172
Walk 5 to 20, inclusive	45	136 - 151

Claims are recorded in the office of the County Recorder at Panguitch, Garfield County, Utah. Transfer agreements from W. P. Rogers and the Magna Mining Co. to United Western Minerals Co. accompany the application. No copy of the State lease has been submitted.

Exploration completed to date consists of bulldozer stripping and drilling. Rim exposures have been made by access-road building and a small amount of stripping. Three short drill holes were completed, but are now caved. The company is at present doing some contract rotary drilling. Two additional holes have been drilled and the third was collared at the time of the examination.

The property has had no production. There has been no production from adjoining properties in the area.

DESCRIPTION OF THE DEPOSITS

The property is situated on the Water Pocket fold just north of the Circle Cliffs area (fig. 2). Erosion has cut a narrow, steep-walled canyon through the resistant sandstone beds of a monoclinal

flexure. West of the flexure the beds assume a near-horizontal attitude. Encroachment of the stream has opened a wide valley back of the constriction, exposing Triassic rocks. The floor of the valley bottoms in the Triassic Moenkopi formation. Contacts of the Moenkopi-Shinarump or Moenkopi-Chinle formations are exposed for miles. On the north side of the valley, 10 to 25 feet of Shinarump cliff is visible. On the south side of the valley the Shinarump is very thin or has lensed out completely in places. Thick Chinle shales, overlain by vertical-walled Wingate sandstone, rims the entire valley, except for the narrow, constricted outlet.

Known occurrences of uranium mineralization in the area are limited to the basal part of the Shinarump formation. The only evidence of channeling seen in the area is at a point on the south side of the valley. The bed thickens to 4 or 5 feet over a distance of 40 or 50 feet in an area where the Shinarump is thin or absent. Thickening of the bed is due to deposition and is not stream fill of an old channel gouged into the underlying Moenkopi. Beneath this, the Moenkopi formation is bleached and has been subjected to differential weathering. This feature, when viewed from a distance, gives the impression of a stream channel in the Moenkopi, filled with boulders. These boulders are actually the Moenkopi beddings from which the softer clay layers are exfoliating, giving a rounded appearance to the remaining harder shale centers. The so-called

boulders and intervening softer shales are in place and have not been moved by stream action. The overlying Shinarump shows slight radiometric activity. Exploration conducted by the applicant has exposed minor uranium mineralization at area "A" on the Shinarump rim.

PROPOSED EXPLORATION

The applicant proposes to explore the area by drilling and by stripping. The Shinarump rim has been mapped and three areas of interest are designated. Drilling is proposed at area "A" and stripping at areas "B" and "C". Nineteen holes are proposed, which are estimated to vary in depth from 80 to 390 feet. Total drilling depth is estimated at 3,985 feet (fig. 3).

The applicant proposes to strip area "B" to explore the basal part of the Shinarump formation. Also, it is proposed to mine the basal part and systematically sample the channel under the area stripped. It is estimated it will be necessary to remove 3,000 cubic yards of waste to mine 1,100 tons of material near the base. The applicant was informed this work is development and mining and is not classified as exploration.

Area "C" appears to be too low in grade and too thin to be of further interest.

PROJECT COSTS

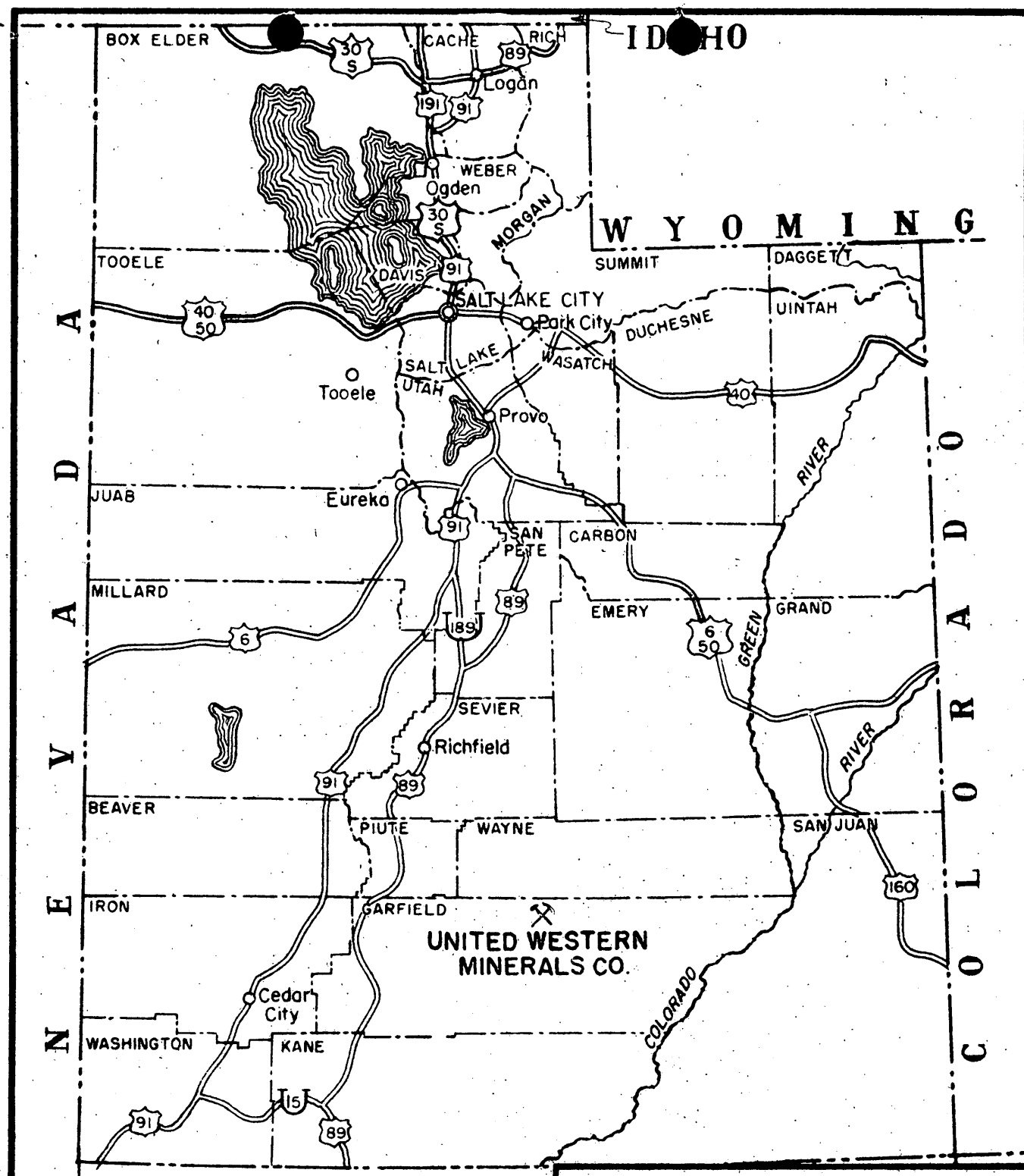
The applicant is proceeding with exploration by rotary noncore drilling at area "A". At the time of the examination, two holes

were completed to the Moenkopi-Shinarump contact and the third was in progress. Most of the access-road work has been completed. The noncore drilling is contracted at a rate of $1.75 per foot. Bulldozer work is contracted at a rate of $12 an hour.

CONCLUSIONS AND RECOMMENDATIONS

Extensive exploration of the Shinarump formation for uranium deposits has been conducted in the Circle Cliffs area. Only a few locations have yielded ore of economic importance and, with the exception of one, these have all been low in grade. The United Western Uranium Co. recently made the South Coleman Canyon area accessible and is now engaged in exploring the Shinarump-Moenkopi contact. Geologic conditions found in South Coleman Canyon are similar to those throughout the Circle Cliffs area.

The company is presently engaged in rotary drilling in the area. No mineralization of consequence has been encountered. It is recommended that the application for Government assistance in exploration be denied.



0 50 100

SCALE OF MILES

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

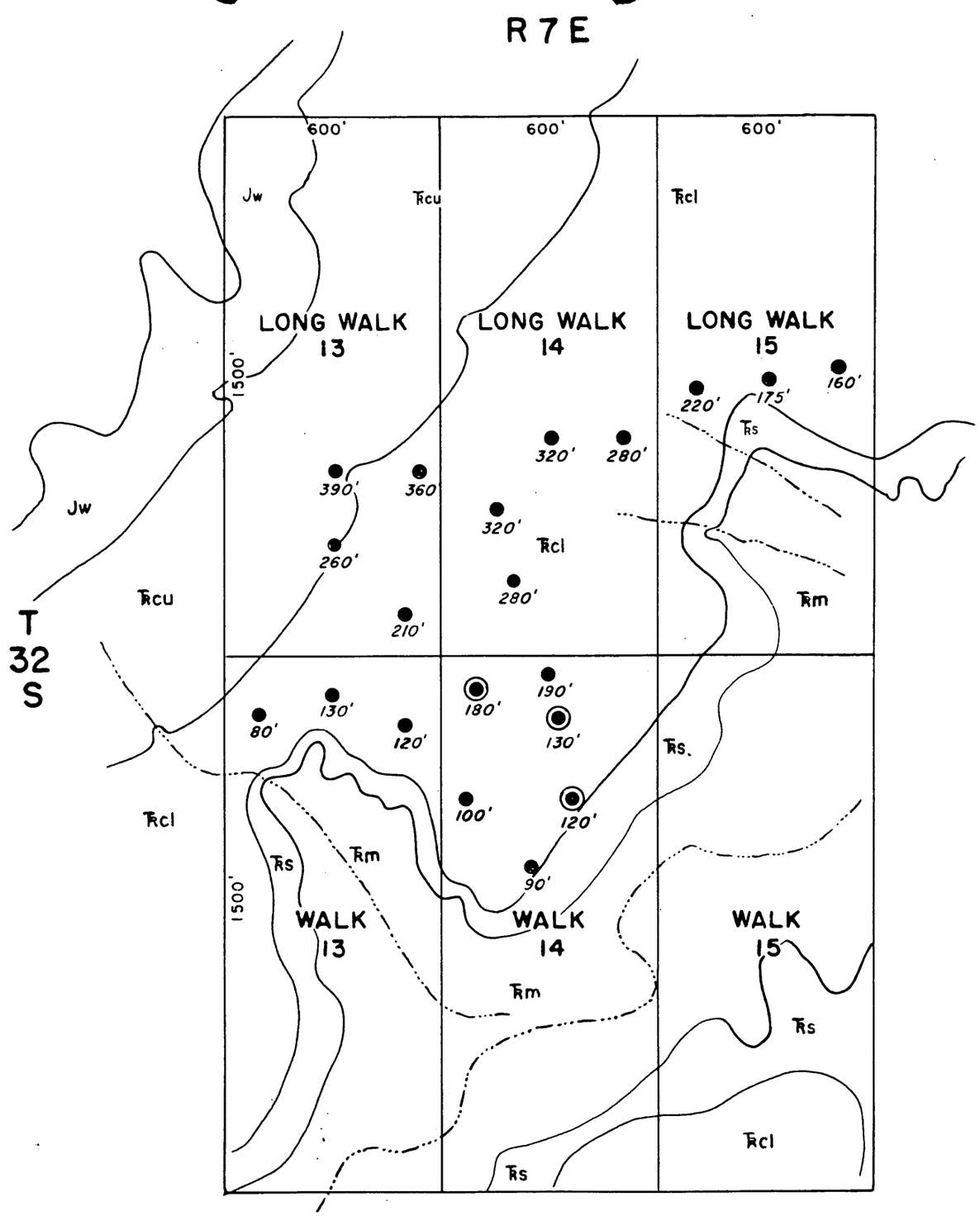
Fig. 1 DMEA Docket No. 4288

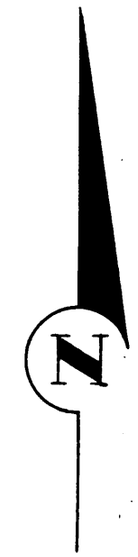
Location Map

UNITED WESTERN MINERALS CO.

GARFIELD COUNTY, UTAH

ENGINEER: W. E. YOUNG	DATE: SEP. 5, 1956
TRACED: SEP., 1956; A.P.T.S.	1900-414-G
CHECKED:	





LEGEND

Jw	WINGATE SANDSTONE
Trcu	UPPER CHINLE
Trcl	LOWER CHINLE
Trs	SHINARUMP CONGLOMERATE
Trm	MOENKOPI
◉	HOLE DRILLED
●	PROPOSED DRILL HOLE
220'	DEPTH OF DRILL HOLE

NOTE

DATA TRACED FROM COMPANY MAP
BASED ON U.S.G.S. PHOTOGEOLOGY.

0 400 800 1200
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 3 DMEA Docket No. 4288
Proposed Holes, Exhibit "A-1"

UNITED WESTERN MINERALS CO.

GARFIELD COUNTY, UTAH

ENGINEER: *W. E. YOUNG*	DATE: AUG. 31, 1956
TRACED: AUG., 1956; A.P.T.S.	1900-410-F
CHECKED:	

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

RECEIVED
JUN 25 1956

June 21, 1956

[illegible] New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (2) (With brochure)
J. W. Mealer

From: Field Team, Region III

Subject: Docket DMEA 4295 (Uranium) United Western Minerals Company, (Lee, et al., claims and Utah State Mineral Lease No. ML-7421) Garfield County, Utah

Enclosed is the subject application in the amount of $36,694.00. A field examination and suitable report are requested.

Enclosed for your information is a copy of a letter from the Chairman, Operating Committee dated June 18, 1956 with attached memoranda of review of the application by John E. Crawford and E. E. Nelson.

Please return the brochure with the Report of Examination.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

DMCish

cc: Chair. Op. Comm. (2)
Enrolment
Docket 4295
Chron.

RECEIVED
JUN 29 1956

June 26, 1956

Memorandum

To: J. R. Wilson

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4288 (Uranium), United Western Minerals Company, (Ace, et al., claims and Utah State Mineral Lease No. ML-7421) Garfield County, Utah

Enclosed is the application for United Western Minerals Company, DMEA 4288, in the amount of $36,694.00.

A field examination and suitable report are required. The completed report should be forwarded directly to the Executive Officer with a copy of the memorandum of transmittal to this office.

JOHN F. SHAW
John F. Shaw

Enclosure

cc: W. M. Traver (3)
E. N. Barshman
J. W. Hasler
M. K. Salsbury
Sec. Op. Com. (2)

6-26-56

RECEIVED
JUN 25 1956

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

June 21, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (2) (With brochure)
J. W. Hasler

From: Field Team, Region III

Subject: Docket DMEA 4288 (Uranium) United Western Minerals Company, (Ace, et al., claims and Utah State Mineral Lease No. ML-7421) Garfield County, Utah

Enclosed is the subject application in the amount of $36,694.00. A field examination and suitable report are requested.

Enclosed for your information is a copy of a letter from the Chairman, Operating Committee dated June 18, 1956 with attached memoranda of review of the application by John B. Crawford and N. E. Nelson.

Please return the brochure with the Report of Examination.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

WMT:ab

cc: Chair. Op. Comm. (2)
Herschman
Docket 4288
Chron.

Surname copy

Murphy
Hunter
Denyer
Jorrow
McKeever

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

JUN 18 1956

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

Re: Docket No. DMEA-4288 (Uranium)
United Western Minerals Company
Ace, et al., claims and
Utah State Mineral Lease No. ML-7421
Garfield County, Utah

Dear Mr. Traver:

In accordance with your memorandum, dated May 17, 1956, the captioned application is referred to Region III Field Team for a field examination and recommendation.

Enclosed are copies of memoranda, dated May 28 and June 11, 1956, by J. E. Crawford, USBM, and N. E. Nelson, USGS, respectively, relating to the application.

The Applicant has submitted copies of a sale and royalty Agreement, dated August 4, 1955, signed by W. P. Rogers and Walter Gibson, president of Magna Mining Co., as owners, transferring the Coleman Canyon group of claims to United Western Minerals Co. Also the Applicant submitted a copy of an Agreement, dated October 7, 1955, wherein the United Western Minerals Co. sells an undivided one-half part of its equity in all the Coleman Canyon claims to Irving G. Rudd. However, a copy of the Utah State Land Board grant of Lease No. ML-7421 was not submitted.

In the event the Field Team concludes that a project to explore the subject property appears to be warranted, it should advise the Applicant that we will require copies of the State land lease, and a performance bond on such land if a contract is approved. Also that we will require six copies of the Owner's Consent to Lien on the lode mining claims signed by W. P. Rogers and Emma S. Rogers, his wife, and by Walter Gibson, president of Magna Mining Co.

R.S.

It appears that the subject application should have been submitted as a joint venture by United Western Minerals Company and Irving G. Rudd. However, this question can be clarified, if necessary, after the field examination.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

/s/ Robert W. Geehan (JHB)

Member, U. S. Bureau of Mines

Thor H. Kiilsgaard (JHB)

Member, U. S. Geological Survey

FMMurphy:ai
6/12/56
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. THKiilsgaard, Rm 5224
JECrawford, Rm 3641
JOHosted, Rm 3210, GSA
Code 700
Mr. Murphy

Surname copy

Murphy
Kilsgaard
Gehon
Martin
Fehrman

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

JUN 18 1956

Mr. Alva A. Simpson, Jr, President
United Western Minerals Company
136 West Palace Avenue
Santa Fe, New Mexico

Re: Docket No. DMEA-4288 (Uranium)
United Western Minerals Company
Ace, et al., claims and
Utah State Mineral Lease No. SL-7421
Garfield County, Utah

Dear Mr. Simpson:

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:

Mr. W. E. 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,

C. O. Mittendorf

Administrator

FMMurphy/ai
6/13/56
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

R.G.

6-12-56

IN REPLY REFER TO:

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

RECEIVED
JUN 12 1956

June 11, 1956

Re: DMEA 4288
United Western Minerals Co.
South Coleman Canyon Gp.
Garfield Co., Utah
$36,694.00 - Uranium

Memorandum

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

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

Subject: Review of application.

The field office at Grand Junction has reviewed the application and recommends an examination of the property.

The applicant requests assistance in exploring by bulldozing and drilling a large group of claims underlain by the Shinarump-Moenkopi couple.

A small amount of work has been done and at several places low-grade mineralization has been spotted. Three shallow drill holes totaling 96 feet, have been drilled and one showed radioactivity over 6 feet and one foot, 43-44', of .207% U_3O_8. As shown on the good appearing geologic maps this showing, (A), is on a spur from a very irregular, closed crater like depression or sink which has a Moenkopi floor and walls of Shinarump, Chinle and Wingate rocks. Miles of Shinarump-Moenkopi contact area is available for prospecting and at 3 places, A, B, and C, the more significant signs of radioactivity occur. Drilling, as above noted, was done at "A" and at "C" an 18-foot drift was driven. The applicant's geologist detected signs of channels at the three places but, except for the one sample from the drill hole, no material of ore grade appears to have been met with as no assays are cited.

I agree with the opinion of the field office that an examination of the property is warranted and recommend referral of the application to the Field Team for appropriate action.

N. E. Nelson

N. E. Nelson

5/29/56 gla

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

May 28, 1956

RECEIVED
MAY 28 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Application for Assistance, DMEA Docket 4288,
United Western Minerals Company, Garfield County, Utah

I have reviewed the attached application for assistance, DMEA Docket 4288, United Western Minerals Company, Garfield County, Utah, dated April 4 and received in this office May 22, 1956. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant has requested Federal assistance to explore for uranium on 66 contiguous claims in Garfield County, Utah. The proposed exploration consists of 3,985 feet of drilling at $1.75 per foot, stripping in three different locations, and roadbuilding. The total estimated cost of the project is $36,694.

The claims lie in the Circle Cliff Upwarp. The Atomic Energy Commission indicates that the ore-bearing formation in the subject area is not too favorable for the occurrence of uranium ore deposits, but that specific information relative to the claims is lacking.

The field team recommend that a field examination of the subject claims be made inasmuch as little is known of the area. We concur in the recommendation.

John E Crawford
John E. Crawford

Attachment

5-21-56

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

RECEIVED
MAY 21 1956

May 17, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Field Team, Region III

Subject: DMEA Docket 4288 (Uranium) United Western Minerals Company, (Ace et al. claims), Garfield County, Utah

Enclosed are the original and three copies of a review of the subject application by members of the Grand Junction office, DMEA.

Information from the Atomic Energy Commission indicates that the Shinarump formation in this general area is not too favorable for the occurrence of uranium ore deposits. However, little is known about the subject claims. The field, therefore, recommends that a field examination be made. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

4288

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

RECEIVED
MAY 21 1956

MINERAL DEPOSITS
IN REPLY REFER TO:
DMEA
RECEIVED
MAY 16 1956
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

May 15, 1956

DMEA
Date Rec'd.
MAY 17 1956
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: J. William Hasler JWH
E. N. Harshman ENH

From: H. F. Albee
M. H. Salsbury

Subject: Application for DMEA aid (Uranium), United Western Minerals Company (Ace et al claims), Garfield County, Utah

United Western Minerals Company, 136 W. Palace Avenue, Santa Fe, New Mexico, has applied to DMEA for assistance to explore for uranium on the Ace, Camp, et al groups of claims in sections 3, 4, 5, 8, 9, and 17, T. 32 S., R. 7 E., SLBM, Garfield County, Utah.

The application is well prepared and the proposed program is clearly stated. However, the property lies in an area where little or no work has been done and the potential of the property is unknown. The mines in the surrounding area are generally small and production throughout the district has not been great. According to information from the AEC, the Shinarump formation is thin and lenticular in the claimed area and probably is not too favorable for the occurrence of uranium ore deposits.

Inasmuch as little is known of the area in the vicinity of the claims, a field examination is recommended.

Howard F. Albee

H. F. Albee,
U. S. Geological Survey

M. H. Salsbury

M. H. Salsbury,
U. S. Bureau of Mines

HFA/mlr

May 11, 1956

United Western Minerals Company
136 West Palace Avenue
Santa Fe, New Mexico

Subject: DMEA 4288
Re: Exploration Assistance

Gentlemen:

The receipt of your application dated April 4, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 4288 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

May 10, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region

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

4288 United Western Minerals Company

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

RECEIVED
MAY 10 1956

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

May 8, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Uranium) United Western Minerals Company (Ace et al claims), Garfield County, Utah

Enclosed are two copies of the subject application in the amount of $36,694.00.

One copy of the application is being forwarded to the Grand Junction office, DMEA, for their review and comments concerning the advisability of making a field examination.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

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

RECEIVED
MAY 10 1956

May 8, 1956

224 New Customhouse
Denver 2, Colorado

Mr. H. N. Rhodes
United Western Minerals Company
P. O. Box 921
Santa Fe, New Mexico

Re: Application for DMEA Aid
(Uranium) (Ace et al claims)
Garfield County, Utah

Dear Mr. Rhodes:

This will acknowledge receipt of four copies of the captioned application. This application has been placed in line for further processing.

Very truly yours,

W. M. TRAVER,

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

HMC:ab

cc: Sec. Op. Comm. (2)
Subject
Chron.

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

RECEIVED
MAY 10 1956

May 8, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. W. Hasler

From: Field Team, Region III

Subject: Application for DMEA Aid (Uranium) United Western Minerals Company (Ace et al claims), Garfield County, Utah

Enclosed is the subject application in the amount of $36,694.00.

Please discuss this application with the Bureau of Mines representative in the Grand Junction office and the AEC and forward this office nine copies of your recommendations concerning the advisability of making a field examination.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosure

HMC:ab

cc: Sec. Op. Comm. (2)
Docket
Harshman
Shaw (2)
Chron.

A P P L I C A T I O N F O R

A I D I N A N E X P L O R A T I O N

P R O J E C T

Submitted
by

UNITED WESTERN MINERALS COMPANY

136 W. Palace Avenue

Santa Fe, New Mexico

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMEA
Date Rec'd. 5/7/56
Form Approved.
Budget Bureau No. 42-R1035.2.
MAY 8 1956

RECEIVED
MAY 10 1956
BUREAU OF MINES
Denver, Colorado

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

Not to be filled in by applicant

Docket No. 4288
Metal or Mineral Uranium
Date Received May 10, '56
Estimated Cost $36,694.00
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: UNITED WESTERN MINERALS COMPANY
136 WEST PALACE AVENUE
SANTA FE, NEW MEXICO

(*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. See attached page 1

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. See attached page 1

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Not applicable

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 See attached page 2

(*b*) State any mine name by which the property is known. See attached page 2

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise See attached page 2

(*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. Not applicable

(*e*) If you own the land, describe any liens or encumbrances on it See Attachment "D"

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See attached page 2

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. See attached page 3

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See attached page 4

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See attached page 4

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See attached page 8

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. See attached page 9

16—66551-1

UNITED WESTERN MINERALS COMPANY
(a Delaware Corporation)
136 W. Palace, Santa Fe, N. Mex.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore See attached page 10

(*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. See attached page 10

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract. See attached page 11

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See attached page 11

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.). See attached page 13

(*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. See attached page 13

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See attached page 14

(*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. See attached page 14

(*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. See attached page 14

(*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. See attached page 14

(*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. See attached page 15

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. See attached page 15

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)? See attached page 16

(*b*) How do you propose to furnish your share of the costs? See attached page 16

☐ 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 4 April, 1956.

UNITED WESTERN MINERALS COMPANY
(Applicant)

By Alva A. Ryason Jr.

PRESIDENT

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

RECEIVED
MAY 10 1956

1. (a) UNITED WESTERN MINERALS COMPANY
136 West Palace Avenue
Santa Fe, New Mexico

(b) Applicant is a corporation organized under the laws of the State of Delaware

(c)

Officer	Title	Address
Alva A. Simpson, Jr.	President	136 W. Palace Ave. Santa Fe, New Mex.
Norman S. Dike, Jr.	Vice President and Comptroller	136 W. Palace Ave. Santa Fe, New Mex.
Herbert A. Holt	Secretary-Treasurer	136 W. Palace Ave. Santa Fe, New Mex.
Peter Cable	Asst. Treasurer and Accountant	136 W. Palace Ave. Santa Fe, New Mex.
Lillian M. Anderson	Asst. Secretary	136 W. Palace Ave. Santa Fe New Mex.

UNITED WESTERN MINERALS COMPANY
(a Delaware Corporation)
136 W. Palace, Santa Fe, N. Mex.

3. Applicant's property rights:

(a) Applicant wishes to explore the following described lands:

1. Unpatented federal mining Claims:

ACE 1-12 incl.
CAMP 1-10 incl.
CHUNK 1 only
FOOLS GOLD 1-4 incl.
JERRY 1-3 incl.
LONG WALK 1-20 incl.
TITE 1 only
WALK 5-20 incl.

These contiguous claims are situated in Section 3, 4, 5, 8, 9 and 17 of T 32 S, R 7E, SLBM, Garfield County, Utah.

2. Utah State Minerals Lease No. ML-7421 covering N½ of Section 16, T 32S, R 7E, SLBM, Garfield County, Utah.

(b) The unpatented federal mining claims are known as the South Coleman Canyon Claim Group. See attached Mining Claim Map.

(c) United Western Minerals Company is purchaser under contract. See attached contract - Attachment "B" and Warranty Deed (Special Mining) - Attachment "C".

(d) Not applicable.

(e) For participating interest see Attachment "D".

(f)

NAME OF CLAIM	BOOK	PAGE
ACE 1-10, incl.	49	234-243
ACE 11 and 12	69	234-235
CAMP 1-10, incl.	69	224-233
CHUNK 1 only	49	233
FOOLS GOLD 1-4, incl.	58	179-182
JERRY 1-3, incl.	69	236-238
LONG WALK 1-20, incl.	45	152-171
TITE 1 only	45	172
WALK 5-20, incl.	45	136-151

The above location notices are recorded in the office of the County Clerk of Garfield County, in the city of Panguitch, Utah.

UNITED WESTERN MINERALS COMPANY
(a Delaware Corporation)
236 W. Palace, Santa Fe, N. Mex.

4. Physical Description:

(a) Applicant conducted a limited drilling program on subject properties during the period 8th November to 16 November, 1955. Portable equipment was employed and was completely unsuitable due to design and metallurgical deficiencies.

A total of 96 feet of hole were drilled in the area of attached Exhibit "A", more particularly in the Northeast quadrant of Walk Claim No. 13. Results were as follows:

Hole No. 1

Total Depth: Seventeen (17) feet
Probe Results: Blank
Remarks: Drill stem twisted off at total depth. Hole bottomed approximately forty-three (43) feet above Shinarump-Moenkopi contact.

Hole No. 2

Total Depth: Thirty-three (33) feet
Probe Results: Zero to 29' Blank
29' to 31' Slight radiometric indication
31' to 33' High radiometric indication
Remarks: Hole lost in attempting to run core barrel. Attempts to re-enter hole unsuccessful. Hole bottomed approximately 18 feet above Shinarump-Moenkopi contact.

Hole No. 3

Total Depth: Forty-six (46) feet.
Probe Results: Zero to 37' Blank
37' to 40' Slight radiometric indication (TSTM)
40' to 43' .013% U_3O_8 by radiometric assay
43' to 44' .207% U_3O_8 by chemical assay
44' to 45' .005% U_3O_8 by chemical assay
45' to 46' .007% U_3O_8 by chemical assay

The aforementioned operation represents the largest exploration effort to date. A small amount of "gopher-holing" had been accomplished on the claim group by previous owners. These preliminary efforts disclosed several mineralized areas, but did not materially contribute to an evaluation of the potentialities of these properties.

There are no existing mine workings or production facilities.

UNITED WESTERN MINERALS COMPANY
(a Delaware Corporation)
136 W. Palace, Santa Fe, N. Mex.

(b) There has been no past or current production. There are no ore reserves to date.

(c) The following is extracted from the attached geological report prepared by James Gilkinson, President, Royal Engineering Company, Green River, Utah: (See Attachment "A" and Geological Map.)

"The broad regional feature within which these claims rest, is the Circle Cliff Upwarp. This structure, takes the form of a large elliptical anticline whose elongated axis trends approximately north-south. During the course of geologic time, after the upwarp, erosional processes cut down vast amounts of the dome and left predominately only the most resistant strata. This least affected area is the most steeply dipping perimital fringes and it is upon part of the East flank region that these claims were staked. The stratigraphical age of exposed formations within the confines of these claims, in accord with the chronological order of their sedimentary deposition, ranges from the Lower Triassic Moenkopi formation upward through the Upper Jurassic Entrada formation.

"South Coleman Canyon is specifically a large box canyon, whose towering Wingate rims stand vertically on all sides with the minute exception of where the intermittent stream cuts transversally through. This very narrow constriction falls upon the area embraced by the claims known as Long Walk number One and Two as shown by the accompanying registered survey plat. Proceeding basically westerly up the draw, from the region marked "cabin site", the first stratum encountered is the steeply dipping Entrada, characterized by a buff to light reddish colored sandstone, occasionally interbedded with transitional facies of earthy to clay like material. Underneath this rests the Carmel formation, whose fundimental lithologic features are a persistant deep red soft sandstone, a well compacted red shale and a hard gypsum member, near the base of which exists a few thin telltale marine limestone seams. It is at the approximate contact of the Carmel-Navajo formations, whereupon the "narrows" actually commence. These "narrows" continue entirely through the area where the massive gray, cross-bedded Navajo sandstone and the motled light brown coarse grained, shelf-forming Kayenta sandstone dip under. Unconformably below the Kayenta rests the vertical

UNITED WESTERN MINERALS COMPANY
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136 W. Palace, Santa Fe, N. Mex.

walled, massive cross-bedded, buff colored Wingate sandstone and approximately here the high walls begin to slowly diverge. Below the Wingate comes a very thin seam of light blue green shale, which indicates the contact with the slope-forming, vari-colored Chinle shales and fine grained sandstones. Rapidly now the Canyon walls separate and as a result, the entire large region of South Coleman Canyon can be seen, including the entire Chinle and the all important Shinarump formation. For the purpose of simplicity the lessor known geological members of the Chinle formation such as "Church Rock", "Mossback" and others, will be excluded. In completion of the names and descriptions of the exposed strata, little economic importance is placed upon the readily distinguishable dark red to chocolate brown Moenkopi shales and siltstones, except that it makes a sharp contrast with the overlying Shinarump and therefore becomes an excellent key to denote the contact.

"Uranium-vanadium ore in this district is confined to the Shinarump formation. This stratum consists chiefly of light gray to brown, medium grained sandstone to a relatively coarse conglomerate, with pebbles ranging upwards to two inches in diameter. Frequently, the sandstone member is interbedded with thin chert lenses, vari-colored arenaceous shales, bits of vegatation trash and pieces of petrified wood. If this sandstone has the proper porosity and permeability to receive any aqueous ore bearing solutions, then the apparent final conductive condition necessary to permit the concentration of ore is the precipitant. This basic precipitant appears to be carbonaceous material either in the form of fragmentary vegatation (ie. trees and numerous leaves) or hydrocarbons in the form of asphalt. The accumulation of these causal precipitants in appreciable quantities occurs most logically in the preservative fluviatile regions where vegatation debris is collected as the result of log jamming or settling. Ideally then if this sandstone is underlain by an impervious shale it makes it impossible for the ore solutions to settle below this contact.

"Predicated on the reasonable foregoing beliefs as being the optimum conditions necessary for the presence of uranium ore, specific reference is now made to exacting areas within these claims. Three areas of good mineralization were observed in the Shinarump formation within South Coleman Canyon. This mineralization appears to be stratigraphic instead of structual in nature. Area

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number One, marked on the accompanying registered survey plat, as exhibit "A", is located on the northeast side of a small tributary dry stream bed. This draw commences approximately 100 feet north of the south end center of Walk # 14 and runs about 1,400 feet in a north 20 degree west direction. An inspection showed that immediately above the Shinarump-Moenkopi contact, is a light gray mineralized sandstone, varying in thickness from two to seven feet, which can be traced for 1,800 feet, as indicated on the map. The apparent strike to the channel trend is slightly east of north, however, the extent that it continues in this direction is impossible to predict because of the ever increasing amounts of overburden. Nevertheless, it is conceiveable because of the exposed size, that it could run up to the northern most limits of these claims. The exposed areas of sandstone show several long thin black carbonaceous seams. With the use of a Babble counter the preponderance of count obtained came from these seams and although the surrounding sandstone shows above normal count it failed to visiably indicate sufficient impregnation to classify it as shippable grade ore. Nevertheless, occasional copper stains and uranium leach were found either in or slightly below this sandstone horizon and it appears to be indicative of economical amounts of ore behind the weathered zone. Of further significance are the well above normal scintillation readings that were taken where possible. Unfortunately, because of the vast amounts of decomposed shales that have eroded down from above, forming talus slopes over the sandstone member, numerous readings could not be taken to permit accurate assay interpretations to be expressed. However, combining all features, it appears that this area ought to be strongly considered for further exploration.

"Area number two, marked as exhibit "B" is located immediately west of the south fork of the intermittent stream and more specifically rests about 350 feet north and 200 feet west of the southeast corner of Walk #9. This mineralized channel, occurs about forty feet above the level of the dry wash bed exactly on the Shinarump-Moenkopi contact. This prominent four foot thick vertical face is very evident because of the concentration of numerous large stream boulders, that range between four inches and two feet in diameter. Closer inspection shows that above the conglomerate is a medium to coarse

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grained sandstone member above which rests a well weathered, highly decomposed, shale. The entire forty foot face was checked with a radiation instrument and the strongest count indicating slightly below shippable grade of ore occured in the boulder conglomerate. The mineralization here comes from the cementing sands bonding the boulders together and the channel trend appears to be heading slightly west of north. In the event the trend continues in this direction, the maximum length this channel could attain would be 1,500 feet. The intervening ground, with respect to drilling, would be comparatively easy to bulldoze access roads upon. The depths of the holes drilled would vary between forty and one hundred feet depending upon the amount of shale overburden. A possible correlation could be drawn relating this originally discussed exposure to an area in which a very small amount of recent work has been done. Location of this second area is about 100 feet northwest of the northwest corner of Walk # 10. Again however, due to the minimum amount of overburden removed, little interpretative value was gained pertaining to the ore potential. The facies change is considerable if the two exposures are correlative because no boulders are present in this last mentioned cut and only the medium grained inconsequential overlying sandstone still remains.

"Area number three, an eighteen foot long drift, marked as exhibit "C" is located eighty feet due west of the northeast corner of Walk # 7.

"More specifically, it rests on the northeast side slope of a narrow dry wash bed that joins the south fork of the main wash. This narrow dry wash tributary joins the south fork at a point 600 feet north and 150 feet east of the southeast corner of Walk # 18. The floor of the portal rests about seven feet above the Shinarump-Moenkopi contact. At the breast, from the floor upwards for two feet, is a brown coarse grained sandstone, on top of which rests a uniformly thick ten inch seam of soft black carbon. Scintillation readings show that this particular seam averages slightly below a shippable grade of uranium ore. Comparative readings of this seam, taken slightly to the east of the portal and inside the draft, indicate that the quality of ore increases with depth. This of course is expected because weathering does tend to deteriorate it. The seam is continously traceable from the portal up the draw, 350 feet. Although the exposures are limited because of the talus shale overburden, the black leach has

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penetrated the shale sufficiently to yield identical scintillation readings to those encountered on the outside of the drift. The same results can also be seen for 72 feet down the draw. The trend of the ore in this area appears to be heading in a northeasterly direction and the extent it could go and remain with the limits of these claims is nearly 2,000 feet. Because of the nature of the terrain behind the exposure drilling is virtually impossible. The only method to obtain a more complete understanding of the potential here is to rim out the entire area with a bulldozer.

"Above this seam rests another less mineralized carbonaceous layer, to and one half feet thick. It is characterized by abundant thin sheets of white calcite or gypsum that cut across the normal bedding planes. The top six inches of this layer are stained with considerable white and yellow uranium leach and also vast amounts of oxi dized iron. Overlaying this, is a thirty foot thick gray shale occasionally interbedded with thin facies of sand and siltstones. This shale member is then capped by exceptionally hard ten foot thick coarse grained sandstone. Additional investigation above this sandstone at this time was deemed unncessary.

The gradient of the stream, being greater than the regional dip of the strata, thwarted the investigation in the vicinity of the north one half of the school section and the Ace group because the most favorable ore horizon here goes under, hence their potential is unpredictable."

(d) Beginning at the village of Green River, Utah, proceed westerly on U. S. Highway 6-50 a distance of 4 miles; thence southerly a distance of 56 miles on Utah State Highway 25 to the settlement of Hanksville, Utah. From Hanksville, proceed 32 miles in a southerly direction on Utah State Highway 24 to what is locally known as the "Notem intersection". Take the left-hand fork at the Notem intersection and proceed a distance of 13.2 miles in a southerly direction over a fair dirt road to a point where a sign situated on the right-hand side of the road directs the way into the South Coleman Canyon properties over an access road approximately 7 miles in length. This access road leads to the South Coleman Canyon campsite situated in the west-central portion of the claim group.

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All roads are in fair condition and permit ready access to the properties during periods of good weather. Excessive precipitation may make access difficult for short periods of time.

Green River, Utah, would serve as the nearest shipping point. Green River is served by the Denver and Rio Grande Western Railway Company. Ore loading facilities are available.

It is rumored that the Atomic Energy Commission will establish an ore buying station at Green River, in which case a 112 mile ore haul would be necessary. The alternative would be to continue the haul approximately 30 miles to the east over U. S. Highway 6-50, to the village of Thompson, Utah, where an ore buying station is now in operation. Total haulage distance would then be 142 miles.

Green River would be the nearest supply point for heavy equipment and mining supplies. The village of Loa, Utah, situated some 65 miles to the northwest of subject properties would serve as the nearest residence point, and source of miscellaneous supplies.

(e) Mining operations have been carried on in this general area for many years. Experienced labor is obtainable from sources near at hand.

Miscellaneous materials and supplies necessary to the conduct of exploration operations would be readily available in Loa, Utah, approximately 65 miles to the northwest of subject properties.

Mining equipment can be obtained through the S & M Supply Company branch warehouse situated at Green River.

A limited quantity of water is available from two springs located in South Coleman Canyon. It is believed that these springs would provide a sufficient flow of water for a small scale exploration operation. It may be necessary to obtain additional water from the Sandy Ranch situated some 8 miles to the north of the properties. Applicants plan to haul potable water from Hanksville or Loa.

5 (a) Uranium

(b) Applicant proposes to do work consisting of exploration by rotary non-core drilling in the area of attached

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Exhibit "A". Applicant further proposes to remove overburden to expose basal Shinarump features in areas of attached Exhibits "B" and "C".

Area of Exhibit "A" : Long Walk claims 13, 14 and 15
Walk claims 13, 14 and 15

Applicant proposes to:

1. Drill not more than 3, 985 feet of rotary non-core hole as indicated on the attached exhibit "A-1". Holes will be drilled at accessible locations behind the Shinarump outcrop approximately as shown on the accompanying exhibit.

It is intended to employ compressed air as a drilling fluid using a Duclone sample collector or equivalent unit for sample collection. All holes will be probed with a Babbel unit immediately upon completion.

Samples will be checked radiometrically for uranium and those indicating sufficient mineralization will be analyzed chemically for uranium oxide. A portion of each sample will be properly labeled and stored for inspection and disposition by the Government.

2. It will be necessary to construct approximately 2, 500 feet of additional drill road to expedite this phase of the proposed exploration program. (See Exhibit "A-2").

Area of Exhibit "B" : Walk claim No. 9:

Applicant proposes to:

1. Strip approximately 1, 800 cubic yards of decomposed shale material and 1, 200 cubic yards of coarse-grained sandstone to expose a definite channel in the basal Shinarump over a horizontal distance of approximately 100 feet along the apparent strike of the channel. (See exhibit "B"). Subject channel appears to be 40 feet wide and 4 feet deep and is filled with boulders ranging from 4 inches to 2 feet in diameter. Significant mineralization is present in the cementing material within the channel.

2. Applicant proposes to virtually mine the Shinarump channel and to systematically sample the conglomerate. It will be necessary to extract approximately 1, 100 tons of conglomerate material.

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Applicant proposes to accomplish this portion of the program by employing suitable earth-moving equipment for the removal of overburden. Accepted open-pit mining methods will be employed in extracting the conglomerate material. Representative samples will be taken of that conglomerate material in place within the channel as well as of that material extracted and sorted.

Samples will be checked radiometrically for uranium. Those samples indicating sufficient mineralization will be analyzed chemically for uranium oxide. A portion of each sample will be properly labeled and stored for disposition by the Government.

Area of Exhibit "C": Walk claims 17 and 18:

Applicant proposes to:

1. Strip approximately 4,000 cubic yards of decomposed shale material from the sides of the wash traversing Walk claims 7 and 18 in the area of attached Exhibit "C".

This proposed work will expose an un-weathered area approximately 500 feet long and 20 feet wide and will allow the close inspection and sampling of mineralized zones within the basal Shinarump.

Applicant proposes to accomplish this work by employing suitable earth-moving equipment for the removal of decomposed shales and carboniferous material.

Representative samples will be taken of that material in place within the mineralized zones as well as of that material extracted and sorted.

Samples will be checked radiometrically for uranium. Those samples indicating sufficient mineralization will be analyzed chemically for uranium oxide. A portion of each sample will be properly labeled and stored for disposition by the Government.

(c) The work will start within thirty (30) days and will be completed within four (4) months of an exploration project contract.

(d) Persons who will supervise operations are:

H. N. Rhodes - Petroleum and Mining Engineer

James F. Gilkinson - Consulting geologist

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H. N. Rhodes: Age: 30

Education: Studied Petroleum and Mining Engineering at New Mexico School of Mines. Graduated with B. S. degree in Petroleum Engineering.

Employment Experience:

Presently: United Western Minerals Company: Chief of Operations.

State of New Mexico: - Petroleum Reservoir Engineer and Assistant Chief Engineer for New Mexico Oil Conservation Commission Also Mining and Petroleum Engineer for New Mexico State Land Office.

H. Wilson, et al., - Mining Engineer

Magnolia Petroleum Company: - Engineer Trainee

Dallas Power and Light Company: - Land and Construction Surveyor.

Petty Geophysical Engineering Company: - Seismic Observer (operation and mainten ance of reflection seismograph)

James F. Gilkinson: Age: 33

Education: Studied Engineering and Geology at Colorado College. Graduated with B.S. degree in Geology.

Employment Experience:

Presently: Royal Engineering Company, Green River Utah: - President (Consulting engineers and geologists).

Interstate Mining and Exploration Corp.,: - geologist.

Cold Spring Tungsten Corp.: - Mine Engineer and geologist.

Coberly Engineering Company:- Chief Engineer

United Western Minerals Company is a comparatively new company in the mining field and, as such has limited operating experience in the industry. The great majority of operations conducted by the company since its inception have been accomplished on a contract basis.

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6. Estimate of costs:

(a) Independent contracts -

Additional road building 50 hours at $12.00 per hour	$ 600.00
Drilling 3,985 feet at $1.75 per foot in Area "A"	7,000.00
Stripping 1,800 cu. yds. of decomposed shales at $1.00 per yd. in Area "B"	1,800.00
Stripping 1,200 cu. yds. of sandstone at $2.50 per yd. in Area "B"	3,000.00
Moving 1,100 tons of Shinarump conglomerate in Area "B" - 100 hours at $12.00 per hour	1,200.00
Stripping 4,000 cu. yds. of decomposed shales at $1.00 per yd. in Area "C"	4,000.00
Total	$17,600.00

(b) Labor:

Three (3) laborers at $20.00 per day for thirty days	$ 1,800.00
One (1) laborer at $20.00 per day for sixty days	1,200.00
One (1) cook at $12.50 per day for sixty days	750.00
Supervision:	
One (1) supervisor at $25.00 per day for sixty days	1,500.00
Supervision-Engineering:	
One (1) engineer at $40.00 per day for sixty days	2,400.00
Consultant-Geologic:	
One (1) geologist at $100.00 per day for ten days	1,000.00
Total	$8,650.00

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(c) Operating Materials and Supplies:

Powder, fuse and caps	$ 350.00
Fuel and oil	440.00
Miscellaneous equipment, including food	1,250.00
Total	$2,040.00

(d) Operating Equipment:

Item of Equipment	Use Allowance
Homelite Drill (1)	$ 100.00
165 CFM IR Compressor (1)	83.00
105 CFM LeRoi Compressor (1)	140.00
40 lb. Cleveland Jackhammer (2)	7.00
1955 Ford 3/4 Ton Pickup (1)	122.00
1955 Chevrolet Suburban, F. W. D. (1)	220.00
1953 Willys Jeep, F. W. D. (1)	124.00
1955 Ford Four-door Sedan	184.00
Ingersoll-Rand Wagon Drill (1)	94.00
Babbel 600 B Counter with Reel Cable & Probe (1)	100.00
Eberline Uranium Ore Analyzer (1)	84.00
Miscellaneous equipment	25.00
Total	$1,283.00

The above equipment is owned by the applicant and will be dedicated to the performance of this exploration contract for an estimated period of sixty (60) days.

(e) Rehabilitation and repairs: None

(f) New buildings, improvements, installations

Equipment shed - 16 ft. x 30 ft.	$ 480.00
Two (2) 8 ft. x 12 ft. sleeping tents at $82.50 each	165.00
Total	$645.00

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(g) Miscellaneous:

Cost of repair and maintenance of applicant's operating equipment	$ 640.00
Workmen's Compensation, employees liability insurance and payroll taxes for applicant's employees only	2,500.00
Total	$3,140.00

(h) Contingencies:

Recapitulation:

6 (a)	$17,600.00
(b)	8,650.00
(c)	2,040.00
(d)	1,283.00
(e)	0.00
(f)	645.00
(g)	3,140.00
Total	$33,358.00
Contingencies	3,336.00
GRAND TOTAL	$36,694.00

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7

(a) Applicant is prepared to furnish its share of the cost of the proposed project in accordance with government regulations contained in Section 7, D. M. E. A. NO. 1

(b) Money - United Western Minerals Company has funds in cash bank deposits for this purpose.

Equipment - Applicant has certain mining equipment and vehicles available for use in the proposed exploration project.

Other - Applicant employs qualified personnel and will place these personnel on the South Coleman Canyon exploration project.

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ATTACHMENT "A"

ROYAL ENGINEERING COMPANY

March 6, 1956

Mr. Alva A. Simpson, President
United Western Minerals Company
136 West Palace Avenue
Santa Fe, New Mexico

Dear Mr. Simpson:

This report is the summary following a detailed field investigation and primarily concerns the geology, with respect to uranium ore potentials, pertinent to 67 surveyed, unpatented lode mining claims and also the north one half of a state school section leased by your company.

GENERAL INFORMATION:

NAME OF CLAIMS:

Ace 1 thru 12 inclusive
Camp 1 thru 10 inclusive
Chunk 1 only
Fool's Gold 1 thru 4 inclusive
Jerry 1 thru 3 inclusive
Long Walk 1 thru 20 inclusive
Tite 1 only
Walk 5 thru 20 inclusive

North one half of Section 16, T. 32 S., R. 7 E., SLBM.

LOCATION:

These contiguous claims rest in sections 3, 4, 5, 8, 9, and 17 of Township 32 South and Range 7 East, as based from the Salt Lake Meridian. More specifically they rest in South Coleman Canyon on the east flank of the Circle Cliff uplift, located in the northwestern part of Garfield County, Utah.

RECORDINGS:

NAME OF CLAIM	No. THROUGH	PLACE RECORDED BOOK	PAGE
Ace	1 - 10 incl.	49	234-243
Ace	11 and 12	69	234-235
Camp	1 - 10 incl.	69	224-233
Chunk	1 only	49	233
Fool's Gold	1 - 4 incl.	58	179-182
Jerry	1 - 3 incl.	69	236-238
Long Walk	1 - 20 incl.	45	152-171
Tite	1 only	45	172
Walk	5 - 20 incl.	45	136-151

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TITLE OPINION: Expressed by attorney Ken Chamberlain of the firm of Olsen and Chamberlain, Richfield, Utah.

CHAIN OF TITLE: Expressed in a warranty deed from Magna Mining Company to United Western Minerals Company showing the date, August 26, 1955. This deed is of record in the court house at Panguitch, Utah. It is recorded in Book 92, Page 290 on November 17, 1955.

CLIMATE: Semi-arid to arid desert climate with temperatures varying from a maximum of 110 degrees to a minimum of a few degrees below zero.

ACCESSIBILITY: To get to these claims, start from the center of Green River, Utah, and proceed four miles westerly on U. S. Highway 50-6. This portion of travel is on a major thoroughfare and hence can be classified as an excellent roadway. At this point, turn left off the main highway and proceed 56 miles southerly to Hanksville, using State Highway 24. At present, this once poorly maintained gravel and dirt road, is in the beginning stages of being transformed to an oiled highway and as a result of this construction, which is expected to be completed by midsummer, it can then be classed as an excellent access road also. From Hanksville, continue on State Highway 24, in a southwesterly direction for thirty-two miles. This section of the way requires relatively slow travel because of its only fair condition, however, occasional maintainence allows reasonable speeds to be used considering the fact that it is only a dirt road. At this point, an intersecting road occurs from the left, which is more readily distinguishable by several uranium company signs. This locale is known as "Notom." Take the sharp left fork and proceed on this fair conditioned dirt road for 13.2 miles, where a very small "United Western" sign can be noted on the right. During the course of travel in this particular section, other additional helpful recognition points are; "Dugout Uranium" sign on the left which is encountered exactly 10 miles from the Notom turnoff and the "Sandy Ranch" entranceway gate, also on the left, just four-tenths of a mile beyond the "Dugout" sign. Just recently your company informed us that they have let out an $11,000 road building contract to Mr. Raymond Foster of Grand Junction, Colorado.

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This contract calls for an improved road to be built from the "United Western" sign into the basin containing a majority of the claims. The total distance from the "main road" to the "cabin site" is $4\frac{1}{2}$ miles and from "cabin site" as shown on the accompanying map. In through the "narrows" the distance is 3,000 feet, a few hundred feet of which requires considerable blasting and removal of waste.

MINING ACTIVITY:

Several operating Shinarump mines are in various stages of development and production within three to fifteen miles from this property. Most notably of these are, "The Rainy Day," "Black Widow," "Stud Horse," "Midas," "Red Head" and "Moqui" mines. Figures of their production records are not available, nevertheless, this entire area is of current active interest and increasing exploration work on the part of several uranium companies tends to indicate a favorable regional potential.

GEOLOGY:

The broad regional feature within which these claims rest, is the Circle Cliff Upwarp. This structure, takes the form of a large elliptical anticline whose elongated axis trends approximately north-south. During the course of geologic time, after the upwarp, erosional processes cut down vast amounts of the dome and left predominately only the most resistant strata. This least affected area is the most steeply dipping perimital fringes and it is upon part of the East flank region that these claims were staked. The stratigraphical age of exposed formations within the confines of these claims, in accord with the chronological order of their sedimentary deposition, ranges from the Lower Triassic Moenkopi formation upward through the Upper Jurassic Entrada formation.

South Coleman Canyon is specifically a large box canyon, whose towering Wingate rims stand vertically on all sides with the minute exception of where the intermittent stream cuts transversally through. This very narrow constriction falls upon the area embraced by the claims known as Long Walk number One and Two as shown by the accompanying registered survey plat. Proceeding basically westerly up the draw, from the region marked "cabin site," the first stratum encountered is the steeply dipping Entrada, characterized by a buff to light reddish colored sandstone,

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occasionally interbedded with transitional facies of earthy to clay like material. Underneath this rests the Carmel formation, whose fundimental lithologic features are a persistant deep red soft sandstone, a well compacted red shale and a hard gypsum member, near the base of which exists a few thin telltale marine limestone seams. It is at the approximate contact of the Carmel-Navajo formation, whereupon the "narrows" actually commence. These "narrows" continue entirely through the area where the massive gray, cross-bedded Navajo sandstone and the motled light brown coarse grained, shelf-forming Kayenta sandstone dip under. Unconformably below the Kayenta rests the vertical walled, massive cross-bedded, buff colored Wingate sandstone and approximately here the high walls begin to slowly diverge. Below the Wingate comes a very thin seam of light blue-green shale, which indicates the contact with the slope-forming, vari-colored Chinle shales and fine grained sandstones. Rapidly now the canyon walls separate and as a result, the entire large region of South Coleman Canyon can be seen, including the entire Chinle and the all important Shinarump formation. For the purpose of simplicity the lessor known geological members of the Chinle formation, such as the "Church Rock, " "Mossback" and others, will be excluded. In completion of the names and descriptions of the exposed strata, little economic importance is placed upon the readily distinguishable dark red to Chocholate brown Moenkopi shales and siltstones, except that it makes a sharp contrast with the overlying Shinarump and therefore becomes an excellent key to denote the contact.

Uranium-vanadium ore in this district is confined to the Shinarump formation. This stratum consists chiefly of light gray to brown, medium grained sandstone to a relatively coarse conglomerate, with pebbles ranging upwards to two inches in diameter. Frequently, the sandstone member is interbedded with thin chert lenses, vari-colored arenaceous shales, bits of vegatation trash and pieces of petrified wood. If this sandstone has the proper porosity and permeability to receive any aqueous ore bearing solutions, then the apparent final conductive condition necessary to permit the concentration of ore is the precipitant. This basic precipitant appears to be carbonaceous material either in the form of fragmentary vegatation (ie. trees and numerous leaves)

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or hydrocarbons in the form of asphalt. The accumulation of these causal precipitants in appreciable quantities occurs most logically in the preservative fluviatile regions where vegatation debris is collected as the result of log jamming or settling. Ideally then if this sandstone is underlain by an impervious shale it makes it impossible for the ore solutions to settle below this contact.

Predicated on the reasonable foregoing beliefs as being the optimum conditions necessary for the presence of uranium ore, specific reference is now made to exacting areas within these claims. Three areas of good mineralization were observed in the Shinarump formation within South Coleman Canyon. This mineralization appears to be stratigraphic instead of structural in nature. Area number one, marked on the accompanying registered survey plat, as exhibit "A", is located on the northeast side of a small tributary dry stream bed. This draw commences approximately 100 feet north of the south end center of Walk # 14 and runs about 1,400 feet in a north 20 degree west direction. An inspection showed that immediately above the Shinarump-Moenkopi contact, is a light gray mineralized sandstone, varying in thickness from two to seven feet, which can be traced for 1,800 feet, as indicated on the map. The apparent strike of the channel trend is slightly east of north, however, the extent that it continues in this direction is impossible to predict because of the ever increasing amounts of overburden. Nevertheless, it is conceiveable, because of the exposed size, that it could run up to the northern most limits of these claims. The exposed areas of sandstone show several long thin black carbonaceous seams. With the use of a Babble counter the preponderance of count obtained came from these seams and although the surrounding sandstone shows above normal count it failed to visiably indicate sufficient impregnation to classify it as shippable grade ore. Nevertheless, occasional copper stains and uranium leach were found either in or slightly below this sandstone horizon and it appears to be indicative of economical amounts of ore behind the weathered zone. Of further significance are the well above normal scintillation readings that were taken where possible. Unfortunately, because of the vast amounts of decomposed shales that have eroded down from above, forming talus sloped over the sandstone member, numerous reading could not be taken to permit accurate assay intrepre-

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tations to be expressed. However combinding all features, it appears that this area ought to be strongly considered for further exploration.

Area number two, marked as exhibit "B" is located immediately west of the south fork of the intermittent stream and more specifically rests about 350 feet north and 200 feet west of the southeast corner of Walk # 9. This mineralized channel, occurs about forty feet above the level of the dry wash bed exactly on the Shinarump-Moenkopi contact. This prominent four foot thick vertical face is very evident because of the concentration of numerous large stream boulders, that range between four inches and two feet in diameter. Closer inspection shows that above the conglomerate is a medium to coarse grained sandstone member above which rests a well weathered, highly decomposed, shale. The entire forty foot face was checked with a radiation instrument and the strongest count indicating slightly below shippable grade of ore occured in the boulder conglomerate. The mineralization here comes from the cementing sands bonding the boulders together and the channel trend appears to be heading slightly west of north. In the event the trend continues in this direction, the maximum length this channel could attain would be 1, 500 feet. The intervening ground, with respect to drilling, would be comparatively easy to bulldoze access roads upon. The depths of the holes drilled would vary between forty and one hundred feet depending upon the amount of shale overburden. A possible correlation could be drawn relating this originally discussed exposure to an area in which a very small amount of recent work has been done. Location of this second area is about 100 feet northwest of the northwest corner of Walk # 10. Again however, due to the minimum amount of overburden removed, little intrepretive value was gained pertaining to the ore potential. The facies change is considerable if the two exposures are correlative because no boulders are present in this last mentioned cut and only the medium grained, inconsequental overlying sandstone still remains.

Area number three, an eighteen foot long drift, marked as exhibit "C" is located eighty feet due west of the northeast corner of Walk # 7.

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More specifically, it rests on the northeast side slope of a narrow dry wash bed that joins the south fork of the main wash. This narrow dry wash tributary joins the south fork at a point 600 feet north and 150 feet east of the southeast corner of Walk # 18. The floor of the portal rests about seven feet above the Shinarump-Moenkopi contact. At the breast, from the floor upwards for two feet, is a brown, coarse grained sandstone, on top of which rests a uniformly thick ten inch seam of soft black carbon. Scintillation readings show that this particular seam averages slightly below a shippable grade of uranium ore. Comparative readings of this seam, taken slightly to the east of the portal and inside the drift, indicate that the quality of ore increases with depth. This of course is expected because weathering does tend to deteriorate it. The seam is continously traceable from the portal up the draw, 350 feet. Although the exposures are limited because of the talus shale overburden, the black leach has penetrated the shale sufficiently to yield identical scintillation readings to those encountered on the outside of the drift. The same results can also be seen for 72 feet down the draw. The trend of the ore in this area appears to be heading in a northeastely direction and the extent it could go and remain with the limits of these claims is nearly 2,000 feet. Because of the nature of the terrain behind the exposure drilling is virtually impossible. The only method to obtain a more complete understanding of the potential here is to rim out the entire area with a bulldozer.

Above this seam rests another less mineralized carbonaceous layer, two and one half feet thick. It is characterized by abundant thin sheets of white calcite or gypsum that cut across the normal bedding planes. The top six inches of this layer are stained with considerable white and yellow uranium leach and also vast amounts of oxidized iron. Overlaying this, is a thirty foot thick gray shale occasionally interbedded with thin facies of sand and siltstones. This shale member is then capped by exceptionally hard ten foot thick coarse grained sandstone. Additional investigation above this sandstone at this time was deemed necessary.

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[illegible] W. [illegible], Santa Fe, N. Mex.

The gradient of the stream, being greater than the regional dip of the strata, thwarted the investigation in the vicinity of the north one half of the school section and the Ace group because the most favorable ore horizon here goes under, hence their potential is unpredicatable.

EXPLORATION RECOMMENDATIONS:

1. Actually very little exposed near basal Shinarump face is available to permit a thorough geological investigation to be made because of the abundance of shale talus covering the critical horizon. Therefore, depending upon the judgement of a competent supervisor, either one of two apparent ways exist to eliminate this problem. First, rim-stripping with a bulldozer and in the event this is not economically advisable then the alternative choice is the use of powder. Either or both phases can be done while smaller mining operations are commencing in the areas already discussed.

2. Upon the completion of phase number one, a detailed geological investigation would show with a great deal more accuracy the specific area potential. This investigation should entail geological mapping, a careful radiometric survey and the cutting of representative channel samples where substantial quality ore appears. Later the assay results should be tabulated and intrepretations drawn and evaluated.

3. Depending upon the results obtained, also in phase number one, relatively small amounts of frilling should be done where the cost of road building is not too economically prohibitive. This drilling should be done along any possible projection of favorable lithological trends.

4. Because of the apparent high radiometric readings encountered in the Chinle formation in the vicinity of claims Walk # 6 and # 19, further attention should be given this area.

CONSIDERATIONS:

Ore haulage, subject to there being a relatively low lime content would likely be routed through Green River and taken to Thompson, Utah's buying station. Haulage distance from these claims to Thompson would be 153 miles. It is believed that a mill will be erected at Green River in the near future, which would cut the distance down 20 miles.

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Nevertheless, the nearest Atomic Energy Commission ore-buying station is at Hite, Utah which is located about 57 miles southeast of this property. Due to relative road conditions, the Thompson station is the more advisable.

2. The prevailing weather conditions should not normally impede exploration and development operations. Under isolated instances, however, during the mid-winter months an occasional day or so of inclement weather might necessitate a temporary shut-down.

SUMMARY:

All available indicators discernable on this property point toward an unusually excellent geological risk for the substantial discovery of considerable bodies of average grade uranium ores. Therefore, I sincerely feel that this property merits more exploration and should be considered a very favorable piece of mining ground.

SUBMITTED BY

James F. Gilkinson
Consulting Geologist

JFG/jh

UNITED WESTERN MINERALS COMPANY
(a Delaware Corporation)
136 W. Palace, Santa Fe, N. Mex.

ATTACHMENT "B"

RECEIVED
MAY 10 1956

AGREEMENT

WHEREAS, W. P. ROGERS of Farmington, New Mexico, who is a party to this contract, has acquired certain mining claims hereinafter specifically referred to and described, all of which are located within the State of Utah, said claims being acquired by Rogers as agent for MAGNA MINING CO., a New Mexico corporation, and which company as owner of beneficial interest of said mining claims, joins Rogers in this agreement, and are together designated Sellers; and

WHEREAS, UNITED WESTERN MINERALS CO., a Delaware corporation, having its principal place of business in Santa Fe, New Mexico, desires to purchase two groups of claims designated the Coleman Canyon Group and the Phoebe Group, as hereinafter designated, and which company shall be referred to in this agreement as Buyer;

THE PARTIES agree as follows:

1. Sellers agree to sell and Buyer agrees to buy the group of claims known as the COLEMAN CANYON group, consisting of 67 Federal lode mining claims, and situated in Garfield County, Utah, more particularly shown on Plat marked EXHIBIT I attached to and made a part of this agreement.

2. The consideration for the sale and purchase of said Coleman Canyon group of mining claims is the sum of One Hundred Fifty-five thousand Dollars ($155,000.00), to be paid as follows:

(a) $3000.00 to be placed in escrow with a copy of this agreement in the First National Bank of Santa Fe, Santa Fe, New Mexico, to be applied upon the purchase price;

(b) $12,000.00 to be paid upon furnishing and acceptance of title as hereinafter set forth, and 15,000 shares of common capital stock of buyer corporation at a value of $1.00 per share;

(c) The balance of $125,000.00 shall be paid in one of the following ways at the option of the Buyer: At the option of Buyer, to be exercised upon acceptance of title to this group of claims, buyer may pay up to $62,500.00 of said amount in stock of Buyer's corporation at a value of $1.00 per share, or any portion less than the $62,500.00 in such stock. The balance of the $125,000.00 purchase price not so paid for in stock shall be paid for out of 15% of the gross mineral production from said group of claims. The option of payment shall be exercised by Buyer when title is furnished as hereinafter set forth and accepted by the buyer, and the option so exercised may not thereafter be changed but shall be and become a binding obligation upon the buyer pursuant to the other terms of this agreement. A copy of the option as exercised shall be delivered to the escrow agent hereinabove named and the original shall be delivered to the sellers herein named.

3. As to the payment of the purchase price out of production, this payment shall be 15% of the gross mill receipts of all minerals and metals mined and produced from such claims, but there shall be no actual payment due to sellers by buyer for six months after the date of this agreement; however, the obligation shall accrue during said period as to any minerals produced and marketed even though the payment is delayed until six months from the date of this agreement. Thereafter, payment shall be made monthly and buyer shall keep accurate books and records and render an accounting monthly to the sellers

with the remittance of the 15% of the gross receipts from said claims; provided, however, that buyer at its option, may pay $500.00 per month after six months from the date of this agreement in lieu of working and mining said claims so that buyer shall have the obligation of either continuously mining and operating said claims so long as ore or minerals can be produced therefrom in commercial quantities, or if it fails to do so, shall pay sellers the sum of $500.00 each and every month in lieu of production. The sum of $500.00 per month so paid shall be credited upon the unpaid balance of the purchase price.

4. Sellers agree to sell and Buyer agrees to buy a second group of claims known as the PHOEBE GROUP, consisting of 42 Federal lode mining claims situated in Garfield County, Utah, more particularly shown on Plat marked EXHIBIT II attached hereto and made a part of this agreement. The total sale and purchase price of said Phoebe Group is the sum of $6300.00, to be paid for upon the furnishing and acceptance of title as hereinafter provided, either in stock of the Buyer company or in cash at that time, at the buyer's election. If paid for in stock, said payment shall be on the basis of $1.00 per share for such stock.

5. Sellers agree to furnish Buyer, as soon as abstracts can be compiled and furnished, abstracts of the County records pertaining to said mineral claims, such abstracts to be limited to the instruments affecting the minerals in and under said claims, and will also furnish to buyer an opinion of the law firm of Olsen and Chamberlain of Richfield, Utah, pertaining to all of the said claims covered by this agreement as reflected by both the County records and the Bureau of Land Management records in the Federal Land Office within the State of Utah,

also covering the State Land records insofar as it affects any state lands included in said claims; and further agree to furnish to buyer any and all conveyances or documents pertaining to the mineral title to said claims as well as maps, geological information, and such other information or documents as sellers may have which will be of assistance to the buyer in accepting title and developing and mining such claims.

6. Buyer shall have a period of thirty days to examine said abstracts of title after receipt thereof, and if any defects appear, buyer shall notify sellers in writing of such defects within the thirty-day period, and thereafter sellers shall have a reasonable time and opportunity in which to clear such defects, and if such defects cannot be cleared within six months from the date of notice of the defects, then buyer may, at its option, terminate and cancel this agreement without any further and other obligation hereunder. In the event any possible defects cover only a small portion of the claims involved and cannot be cured, then the parties shall attempt to prorate the consideration according to the area and value of the claims which have defective title.

7. Sellers shall immediately execute the necessary deeds and assignments conveying said claims to the buyer and place such instruments of conveyance in escrow with the escrow agent hereinabove named, it being understood that the type of conveyance shall be a special warranty deed warranting against any encumbrances by, through, or under the sellers, and that the mineral interests in said claims are free and clear of any liens and encumbrances

excepting an existing five per cent overriding royalty on the Phoebe group of claims which is recognized by the parties hereto.

8. Sellers will furnish to buyer a certified copy of the resolution of the Board of Directors of Magna Mining Co. showing approval of this agreement and will also furnish such financial statements and other documents showing that these transactions are not subject to the rights of any creditors of the corporation.

9. The escrow agent hereinabove named is hereby authorized and directed to deliver to the buyer all of the instruments of conveyance held by it, upon payment to the escrow bank of the entire sum of $30,000.00 with regard to the Coleman Canyon group of claims and the payment of cash or stock as hereinabove provided for the purchase price of the Phoebe group of claims, and at the time of delivery, to credit to the account of Magna Mining Co. or pay to it all of said purchase price. In the event the purchase price is not paid according to this agreement and upon receipt by the escrow bank of an affidavit from some member of the law firm of Simms and Modrall in Albuquerque, New Mexico, representing the sellers, the escrow agent shall redeliver all instruments of conveyance held by it to the sellers and further pay to sellers the $3000.00 being held by it in escrow.

10. In the event the buyer fails to make the payments for the balance of the purchase price on the Coleman Canyon group of claims out of the production from said claims or fails to operate and mine said group and does not pay the $500.00 per month on the purchase price as hereinabove provided, then and in any of such events, the sellers at their option may retake title to all of the Coleman

Canyon group of claims, in which event the buyer shall have no further or other obligation relative thereto, or at sellers' option, may pursue any other legal remedy which they may have against the Buyer. It is understood and agreed that the payment out of production on the Coleman Canyon group of claims shall be a lien running with the title to said claims until the full purchase price is paid, and that any assignee or transferree of said claims shall specifically take subject to the obligation of the payment out of production therefrom as provided by this agreement.

DATED on this the 4th day of August, 1955.

/s/ W. P. Rogers
W. P. Rogers

MAGNA MINING CO., a New Mexico corporation

ATTEST:

(SEAL) By /s/ Walter Gibson President

/s/ George A. Rutherford
Secretary

SELLERS

UNITED WESTERN MINERALS CO., a Delaware corp.

ATTEST:

(SEAL) By /a/ Alva A. Simpson, Jr. President

/s/ Herbert A. Holt
Secretary

BUYER

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) SS

The foregoing instrument was acknowledged before me this 4th day of August, 1955, by W. P. ROGERS.

/s/ Arvilla B. Knight
(SEAL) Notary Public

My com. expires February 15, 1958

UNITED WESTERN MINERALS COMPANY
(a Delaware Corporation)
136 W. Palace, Santa Fe, N. Mex.

STATE OF NEW MEXICO)
COUNTY OF SAN JUAN) SS

The foregoing instrument was acknowledged before me this 5th day of August, 1955, by Walter Gibson President of MAGNA MINING CO., a New Mexico corporation, on behalf of said corporation.

(SEAL) /s/ James W. Gibson
Notary Public

My com. expires 3-2-59

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) SS

The foregoing instrument was acknowledged before me this 24th day of August, 1955, by Alva A. Simpson Jr., President of UNITED WESTERN MINERALS CO., a Delaware corporation, on behalf of said corporation.

/s/ Caroline Havard
Notary Public

(SEAL)

My com. expires 11-16-58

ATTACHMENT "C"

BOOK 92 PAGE 290

RECORDED November 17 1955 at 10:30 A.M.
85545 AT REQUEST OF United Western Minerals Co
Mildred Denel County Recorder
Fee $28.80

RECEIVED
MAY 10 1956

WARRANTY DEED (SPECIAL-MINING)

MAGNA MINING COMPANY, a Corporation of the State of New Mexico, W. P. ROGERS, and EMMA S. ROGERS, his wife, GRANTORS, of Farmington, State of New Mexico, hereby CONVEY and WARRANT against the lawful claims of anyone claiming or to claim under them, and against any encumbrances or defects in title suffered by, through, or under said Grantors, to UNITED WESTERN MINERALS COMPANY, INC., a Deleware Corporation, GRANTEE, for the sum of Ten ($10.00) Dollars and other good, valuable, and adequate considerations, the following described unpatented lode mining claims, known as the COLEMAN CANYON GROUP, together with all the rights, lands, and claims thereunto appurtenant, located in Garfield County, State of Utah, described as to name of claim date of location and date and place of recording, as follows, to-wit:

Date of Location / Date of Recording	Name of Claim	No. through	Place Recorded Book	Page	Recording Number
9-18-54 / 9-23-54	Ace	1 through 10 Incl.	49	234-243	61766-61775
3-26-55 / 4-4-55	Ace	11 and 12	69	234,235	72041-72042
3-29-55 / 4-4-55	Camp	1 through 10 Incl.	69	224-233	72031-72040
9-17-54 / 9-23-54	Chunk	1 only	49	233	61765
11-1-54 / 11-26-54	Fool's Gold	1 through 4 Incl.	58	179-182	66179-66182
3-(26)-(28)-55 / 4-4-55	Jerry	1 through 3 Incl.	69	236-238	72043-72045
8-18-54 / 9-7-54	Long Walk	1 through 20 Incl.	45	152-171	59522-59541
8-22-54 / 9-7-54	Tite	1 only	45	172	59542
8-20-54 / 9-7-54	Walk	5 through 20 Incl.	45	136-151	59506-59521

UNITED WESTERN MINERALS COMPANY
(a Delaware Corporation)
136 W. Palace, Santa Fe, N. Mex.

TOGETHER with all metals, ores, gold and silver-bearing quartz, rock, earth, uranium, vanadium, autunite, carnotite, or any other fissionable source material therein; and all dips and spurs, rights, privileges and franchises, tenements, hereditaments and appurtenances thereto incident or belonging, or therewith used and enjoyed, and all the estate, right, title, interest, property, claim and demand whatsoever, legal and equitable, as well in possession as in expectancy, of the GRANTORS, in or to said premises, and every part thereof, TO HAVE AND TO HOLD the same unto the GRANTEE, their successors and assigns forever.

EXPRESSLY RESERVING, however, to the GRANTOR, W. P. ROGERS, a lien, claim and demand upon said mining claims in the sum of One Hundred Twenty Five Thousand ($125,000.00) Dollars to be satisfied by the GRANTEE in any one of the following ways:

> Grantee may pay up to $62,500.00 of said amount in stock of Grantee's corporation at a value of $1.00 per share, or any portion less than $62,500.00 in such stock.
>
> The balance of said $125,000.00 shall be paid for out of 15% of the gross mineral production from the above described mining claims, or on or before February 4th, 1956, the sum of $500.00 per month, in lieu of mining and operating said claims so long as ore or minerals can be produced therefrom in commercial quantities, which $500.00 per month shall be credited upon the unpaid balance.

(SEAL)

IN WITNESS WHEREOF, the said GRANTORS have hereunto set their hands and seals this 26th day of August, A.D., 1955.

MAGNA MINING COMPANY

BY /s/ W. R. Gibson
W. R. GIBSON, President

/s/ W. P. Rogers

/s/ Emma S. Rogers

GEORGE A. RUTHERFORD,
Secretary

STATE OF UTAH)
: ss.
COUNTY OF SEVIER)

On this 26th day of August, A. D., 1955, personally appeared before me W. P. ROGERS, and EMMA S. ROGERS, the signers of the within instrument who duly acknowledged to me that they executed the same.

(SEAL)
Residing at Richfield, Utah

/s/ Ken Chamberlain
Notary Public
My Commission expires: July 21, 1955

STATE OF NEW MEXICO)
: ss.
COUNTY OF San Juan)

On the 29 day of August, A. D., 1955, personally appeared before me W. R. GIBSON, who being duly sworn upon his oath did say that he is the President of MAGNA MINING COMPANY, a New Mexico Corporation, and that the within instrument was executed by authority of a Resolution of the Board of Directors of said Corporation, and the said W. R. GIBSON duly acknowledged to me that he executed the same.

(SEAL)

/s/ James W. Gibson
Notary Public

Residing at: _____

My commission expires: 3-2-59

ATTACHMENT "D"

A G R E E M E N T

THIS AGREEMENT, made and entered into this 7th day of October, 1955 between UNITED WESTERN MINERALS COMPANY, a Delaware corporation, having its principal office at Santa Fe, New Mexico, hereinafter referred to as the "Company" and IRVING G. RUDD of Washington, District of Columbia, hereinafter referred to as "Rudd";

W I T N E S S E T H :

WHEREAS, the Company has purchased from W. P. Rogers of Farmington, New Mexico and Magna Mining Co., a New Mexico corporation, sixty-seven (67) federal lode mining claims known as the Coleman Canyon group, as more particularly appears from the agreement between said parties, dated August 4, 1955, a copy of which is attached hereto and incorporated by reference; it being understood and agreed that the balance of $125,000, being part of the purchase price for the Coleman Canyon group mentioned in clause 2(c) of said Agreement, shall be paid for out of 15% of the gross mineral production from said group of claims; and

WHEREAS, for the considerations hereinafter set forth Rudd desires to acquire, and the Company is willing to grant to Rudd, an undivided one-half interest in the federal lode mining claims known as Coleman Canyon group;

NOW, THEREFORE, in consideration of the premises and of the mutual covenants herein contained, the Company and the Rudd agree as follows;

1. The Company does by these presents bargain, sell, assign, convey and set over unto Rudd an undivided one-half interest in all of said federal lode mining claims, upon the condition that Rudd will make the payments provided for in Section 2 and 3 of this Agreement.

2. In consideration of the foregoing, Rudd will pay to the Company, upon notification by the Company that title to the

federal mining claims known as Coleman Canyon group is acceptable the sum of $15,000, being one-half of the purchase price for ? the federal mining claims known as the Coleman Canyon group, besides the payment of $125,000 out of 15% of gross mineral production from said Coleman Canyon group of claims.

3. In further consideration of the foregoing, Rudd agrees to contribute $2,500, being one-half of the estimated cost of preliminary exploration to determine the existence and extent of commercial deposits of uranium ore on the properties; the other one-half to be contributed by the Company.

The exploratory operations hereinbefore referred to shall be commenced within a reasonable time after the date hereof, and upon notification to Rudd by the Company that such preliminary exploratory operations are ready to commence, Rudd shall pay the sum of $2,500 within ten days after receipt of such notification.

4. When the Company shall have completed the preliminary exploration, it shall furnish within thirty (30) days to Rudd a summary report of the exploratory findings, together with its conclusions regarding the result thereof. If, at any time thereafter, either the Company or Rudd believe that further exploratory and development operations are warranted with respect to any part of the said federal lode mining claims, either party may formulate a proposed program in reasonable detail and shall deliver a written description of such program to the other. If the other party shall agree to the conduct of such a program or of any modification thereof, then the Company shall conduct the same for the joint account and at the joint expense of the parties, and shall equally share all benefits resulting from the conduct of such operations.

5. The Company shall afford to Rudd, his agents and representatives, free access to the said federal lode mining claims

at all times and free access during reasonable business hours to all books and records of the Company which relate thereto. The Company shall in addition furnish to Rudd monthly reports of the progress of all operations conducted, and detailed statements of the amounts disbursed for such operations by the Company under this Agreement.

6. If, after the delivery to Rudd of the report of the Company referred to in Section 4, either the Company or Rudd shall propose to conduct further exploratory or development operations with respect to any part of the properties, but the other party, after reasonable notice shall not desire to join in such operation, then such operation shall be conducted by and at the sole cost of the Company or Rudd, as the case may be, and the income arising from the sale of ore produced as the result of such operations, (including production bonuses and haulage allowances), reduced by all costs and expenses incurred in mining, treating, transporting and marketing such ores, shall be divided as follows:

(a) First, the party who conducted such operations shall receive all of such income until the total amounts received by him under this provision shall have aggregated 200% of all costs and expenses which he shall have incurred in the conduct of such operations, (excluding any cost incurred in mining, treating, transporting and marketing ore);

(b) Second, all of such income and all costs and expenses with respect to such part of the properties shall be shared and borne equally by the Company and Rudd.

7. All operations of any character conducted subsequent to the delivery to Rudd by the Company of the report referred to in Section 4, shall be conducted under the terms of an operating

agreement proposed by the Company and approved by Rudd, which shall, among other things, provide that:

(a) Each party shall have the right to conduct operations which have been proposed to and rejected by the other party, upon terms conforming in substance to those set forth in Section 6;

(b) All such amounts owed by either party to the other party under such agreement shall be secured by a lien upon the entire interest of the other party in the properties, which lien shall be cumulative of all other rights and remedies available for the collection of such amount;

(c) Each party shall have the right to acquire the full interest in any part of the properties which the other party desires to abandon at a price which shall be proportionate to the purchase price paid for the federal mining claims.

No provision shall be contained in such operating contract which shall have the effect of constituting a partnership, joint venture or other form of business association for any purpose.

8. The rights of the Company and of Rudd under this Agreement and in the properties subject to this Agreement may be assigned, transferred or otherwise disposed of, but no such assignment, transfer or other disposition shall be made except expressly subject to this Agreement, and no such assignment, transfer or other disposition by one party shall be binding upon or affect the other party, notwithstanding notice thereof, actual or constructive, until a true copy of a written instrument effecting such assignment, transfer or other disposition shall have been delivered to the other party.

9. In the event that the contracting parties shall agree to admit a third party to this Agreement, it is agreed that any interest to be vested in such third party shall be created by reducing the interests of the contracting parties in equal proportions.

10. The covenants and the agreements of the Company and of Rudd hereunder are expressly declared to be severable, and no invalidity of any such covenant or agreement shall affect or impair the validity of any other covenant or agreement, and each such covenant and agreement shall run with and bind each separate tract of the properties as a covenant running with the land.

IN WITNESS WHEREOF, this instrument has been signed and sealed the day and year first above written.

ATTEST:

/s/ Herbert A. Holt
Secretary

(SEAL)

UNITED WESTERN MINERALS COMPANY

By /a/ Alva A. Simpson, Jr.
President

/s/ Irving G. Rudd
IRVING G. RUDD

STATE OF NEW MEXICO)
: ss
COUNTY OF SANTA FE)

On this 29th day of October, 1955, before me appeared Alva A. Simpson, Jr., to me personally known who, being by me duly sworn, did say that he is the President of UNITED WESTERN MINERALS COMPANY, a corporation, organized under the laws of the State of Delaware, and that the seal affixed to said instrument is the corporate seal of said corporation and that the foregoing instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said President acknowledged said instrument to be the free act and deed of said corporation.

/s/ Herbert A. Holt
Notary Public

My Commission Expires:
Nov. 8, 1957

(SEAL)

DISTRICT OF COLUMBIA: ss

I, FRANCIS G. BOSWELL, in and for the District of Columbia, do hereby certify that IRVING G. RUDD, a party to a certain Agreement bearing date on the 7th day of October 1955, and hereto annexed, personally appeared before me in said district, the said IRVING G. RUDD personally well known to me as the person who executed the said Agreement, and acknowledged the same to be his act and deed.

Given under my hand and seal this 27 day of October, 1955.

/s/ Francis G. Boswell
Notary Public

(SEAL)

My Commission Expires
March 14, 1958

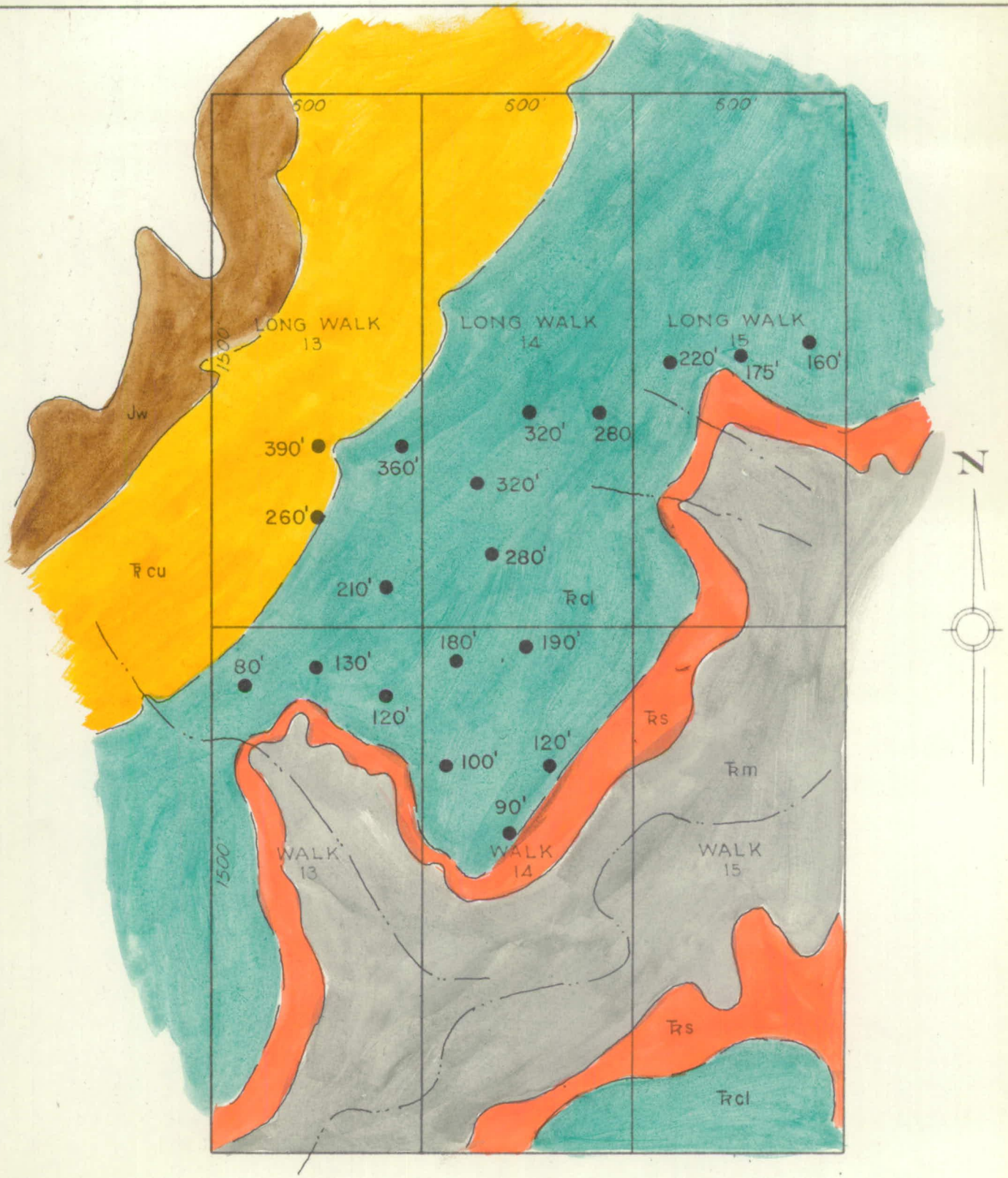

EXHIBIT A-1
UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
Scale: 1" = 400'

PROPOSED
DRILL HOLE
LAYOUT
showing approximate
hole depths

HR

RECEIVED
MAY 1 0 1956

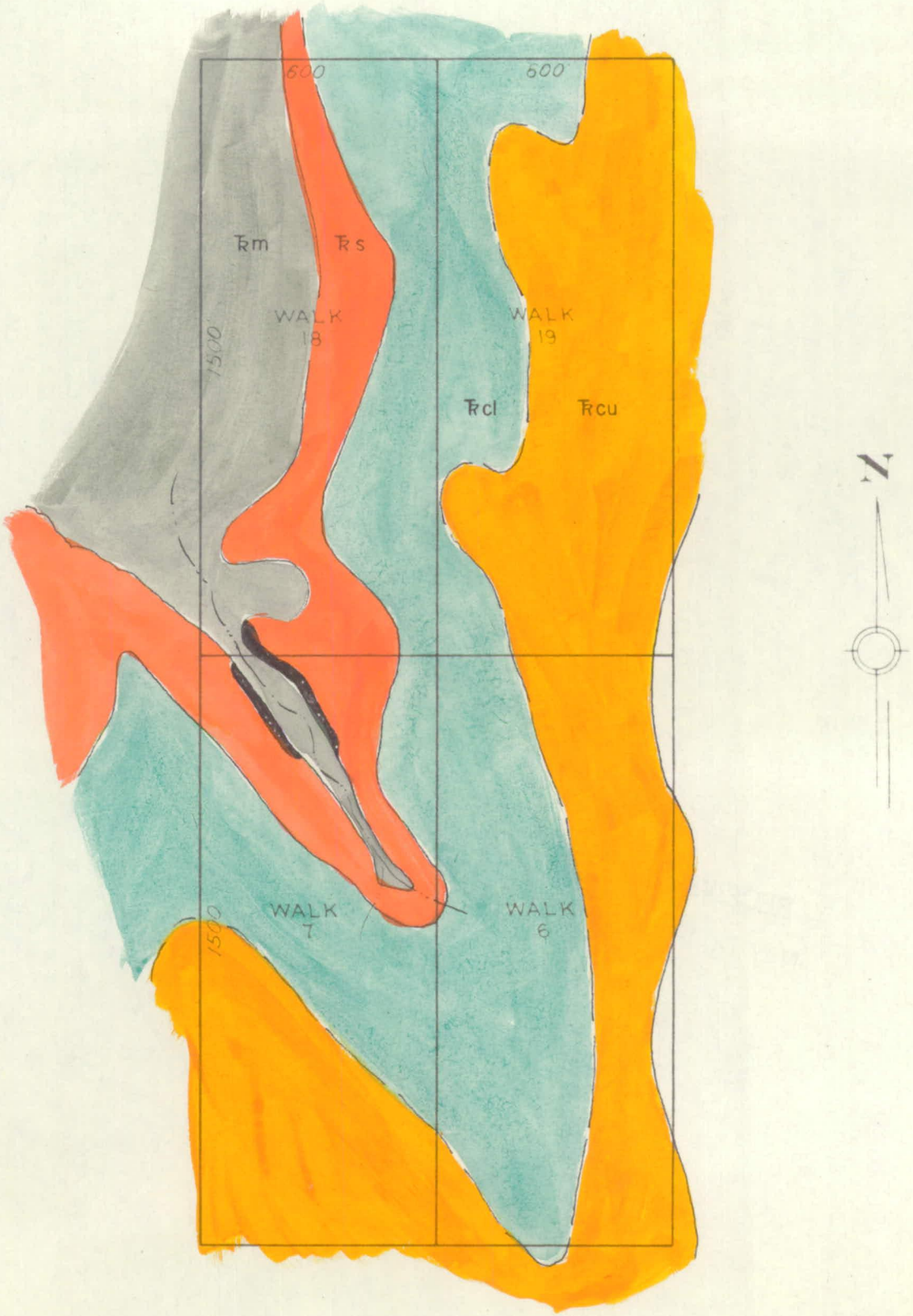

EXHIBIT C
UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
Scale: 1" = 400'

Area to be stripped

HR

RECEIVED
MAY 1 0 1956

EXHIBIT A-2
UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
Scale: 1" = 400'

PROPOSED
DRILL ROAD
LAYOUT

—— existing road
- - - proposed road

HR

RECEIVED
MAY 1 0 1956

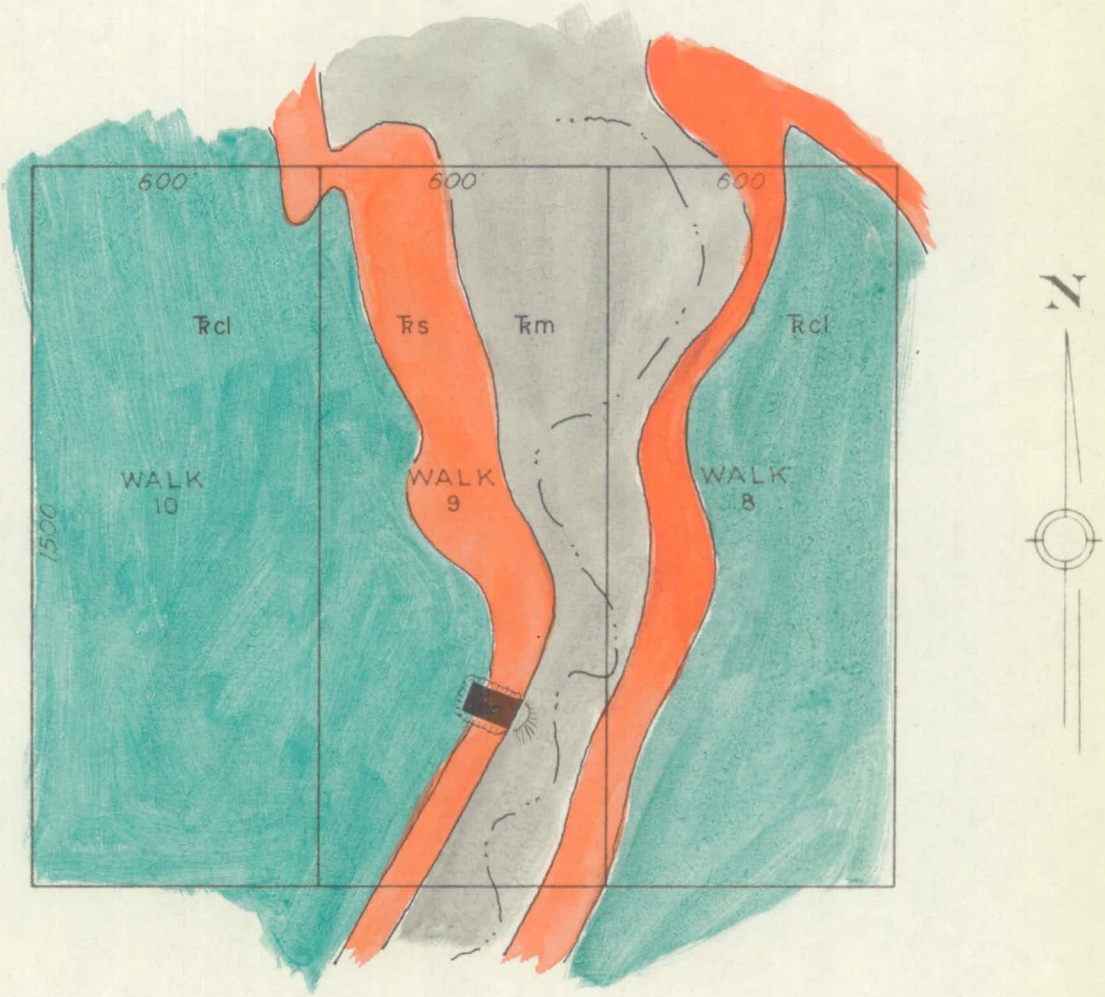

EXHIBIT B
UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
Scale: 1" = 400'

Area to be stripped

HR

RECEIVED
MAY 1 0 1956

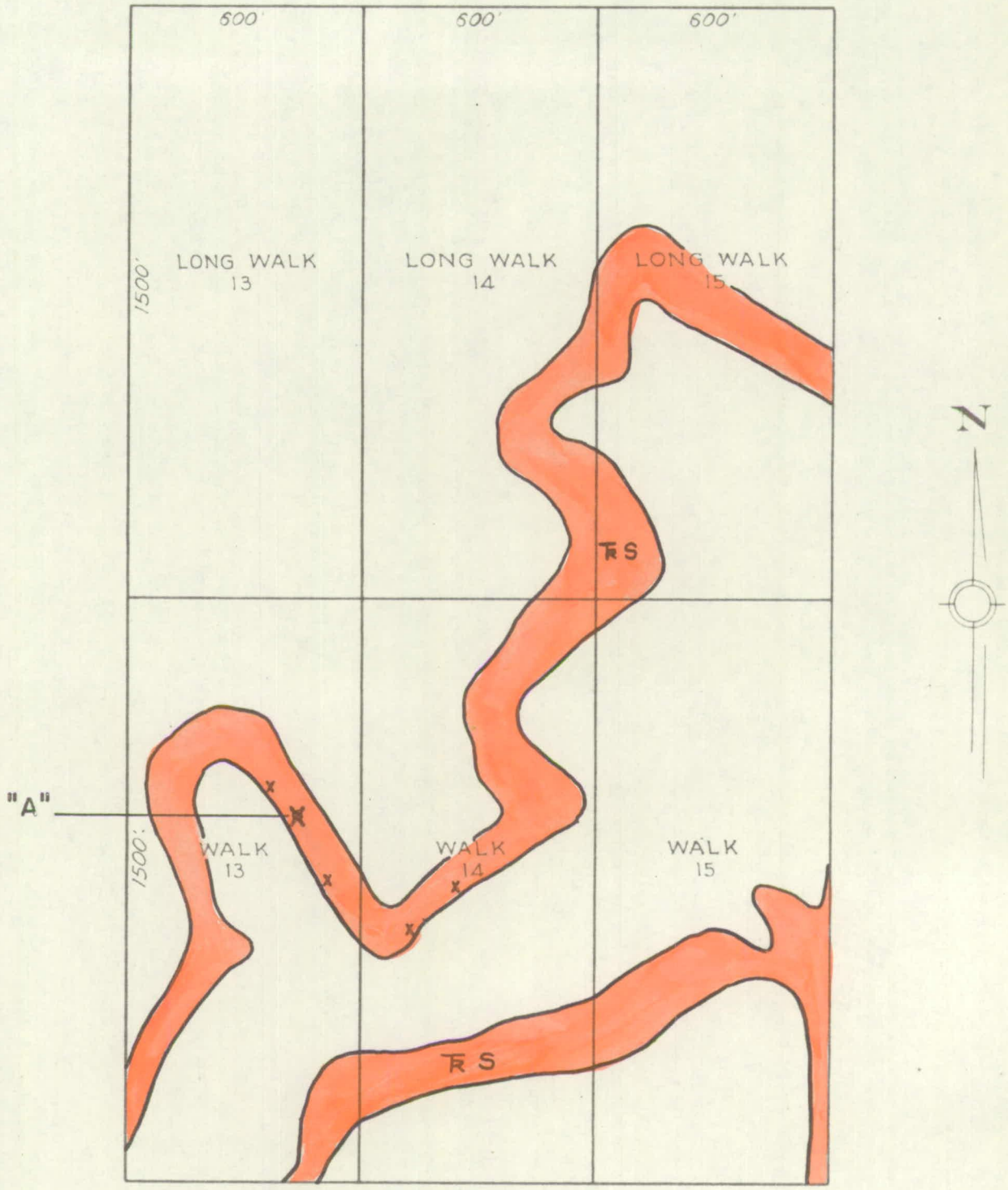

EXHIBIT A
UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
Scale: 1" = 400'

RECEIVED
MAY 1 0 1956

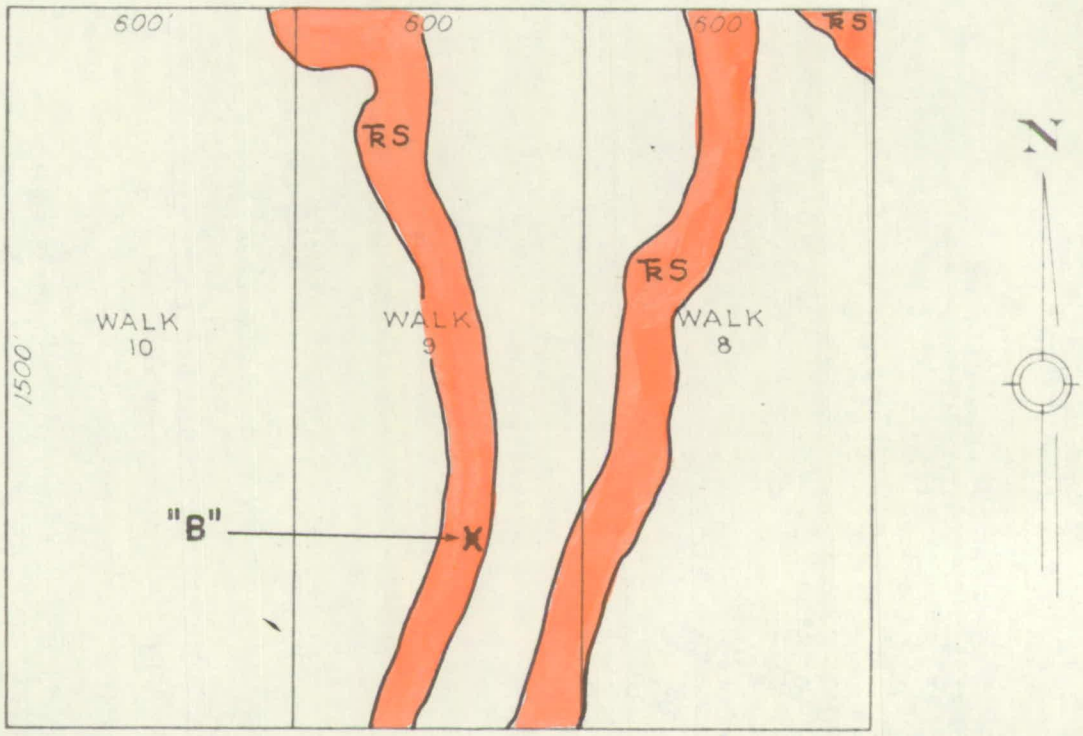

EXHIBIT B
UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
Scale: 1" = 400'

RECEIVED
MAY 10 1956

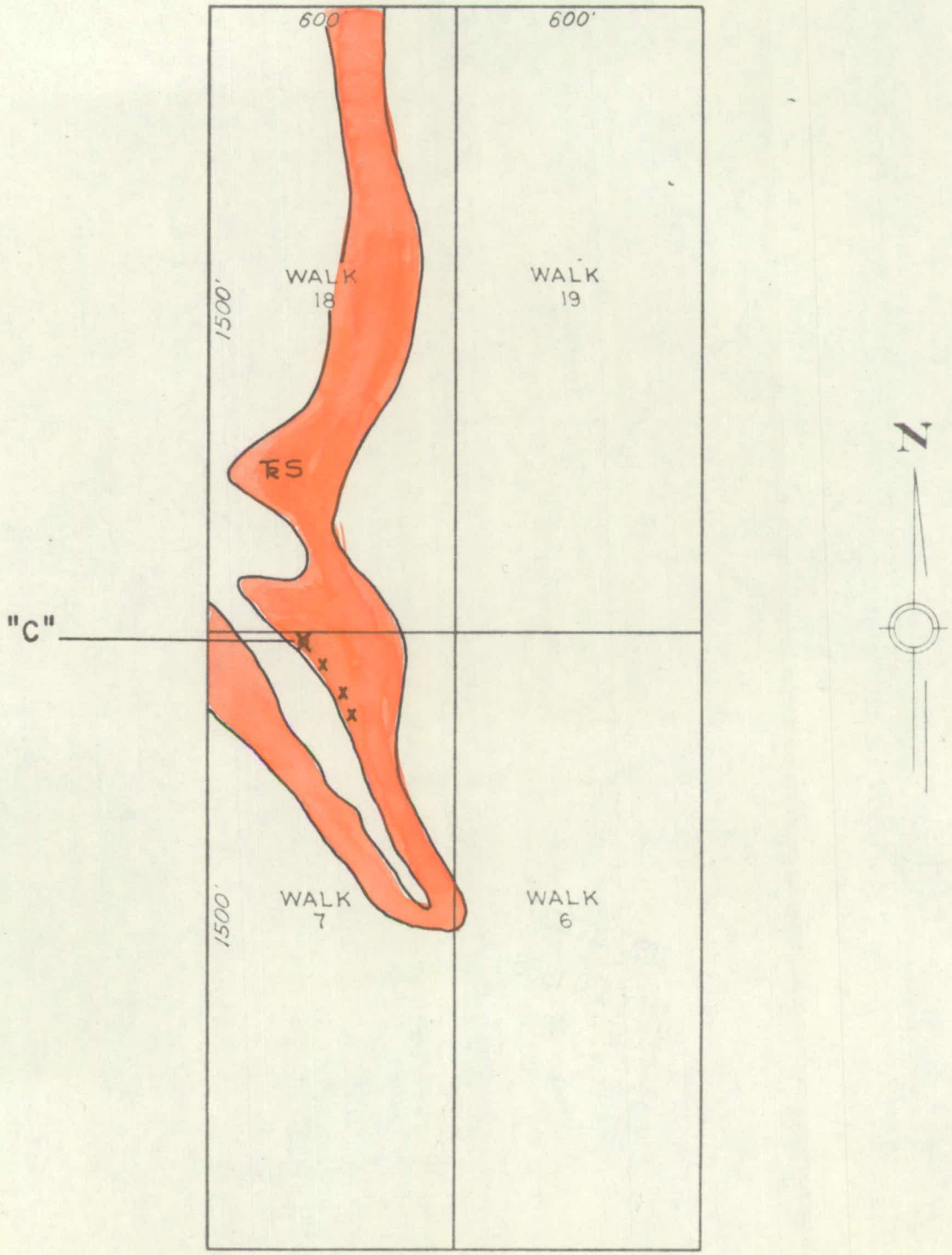

EXHIBIT C
UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
Scale: 1" = 400'

RECEIVED
MAY 10 1956

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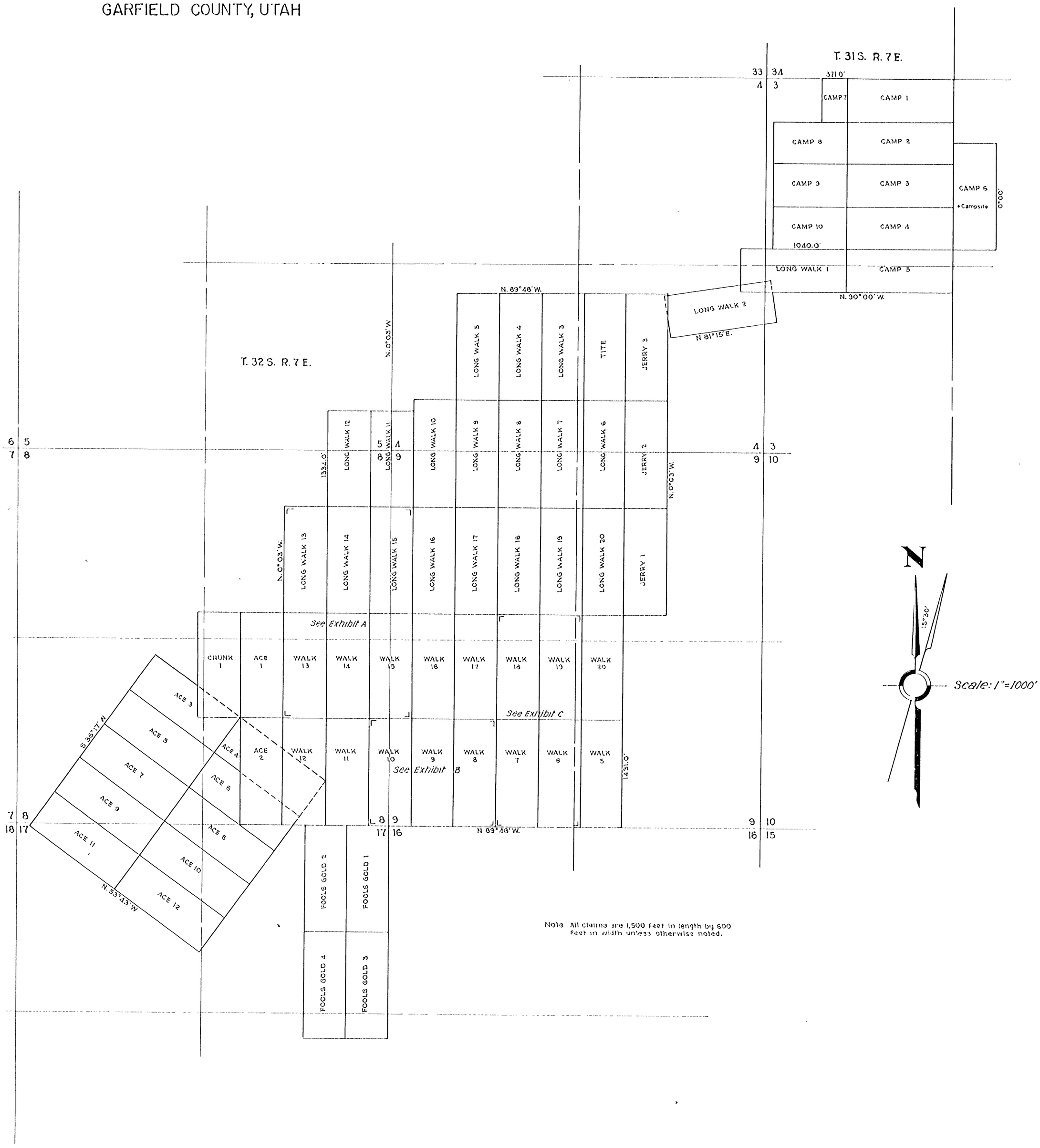
USE, DENVER 2, COLO.

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

UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
T.32S., R.7E.
IN THE
UNKNOWN MINING DISTRICT UNORGANIZED
GARFIELD COUNTY, UTAH



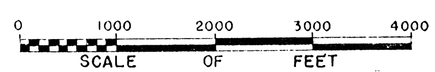
Note All claims are 1,500 feet in length by 600 feet in width unless otherwise noted.

LEGEND

Jw	WINGATE SANDSTONE
Rcu	UPPER CHINLE
Rcl	LOWER CHINLE
Rs	SHINARUMP CONGLOMERATE
Rm	MOENKOPI

NOTE

DATA TRACED FROM COMPANY MAP
BASED ON U.S.G.S. PHOTOGEOLOGY. -



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 2. DMEA Docket No. 4288

Mining Claim Map showing Geology
OF SOUTH COLEMAN CANYON

UNITED WESTERN MINERALS CO.

GARFIELD COUNTY, UTAH

ENGINEER: *W. E. YOUNG*	DATE: AUG. 30, 1956
TRACED: AUG., 1956; BY: A.P.T.S.	1900 - 409 - D
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OCT 31 1956
D.M.E.A.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
SEPTEMBER 1956
DOCKET 4288

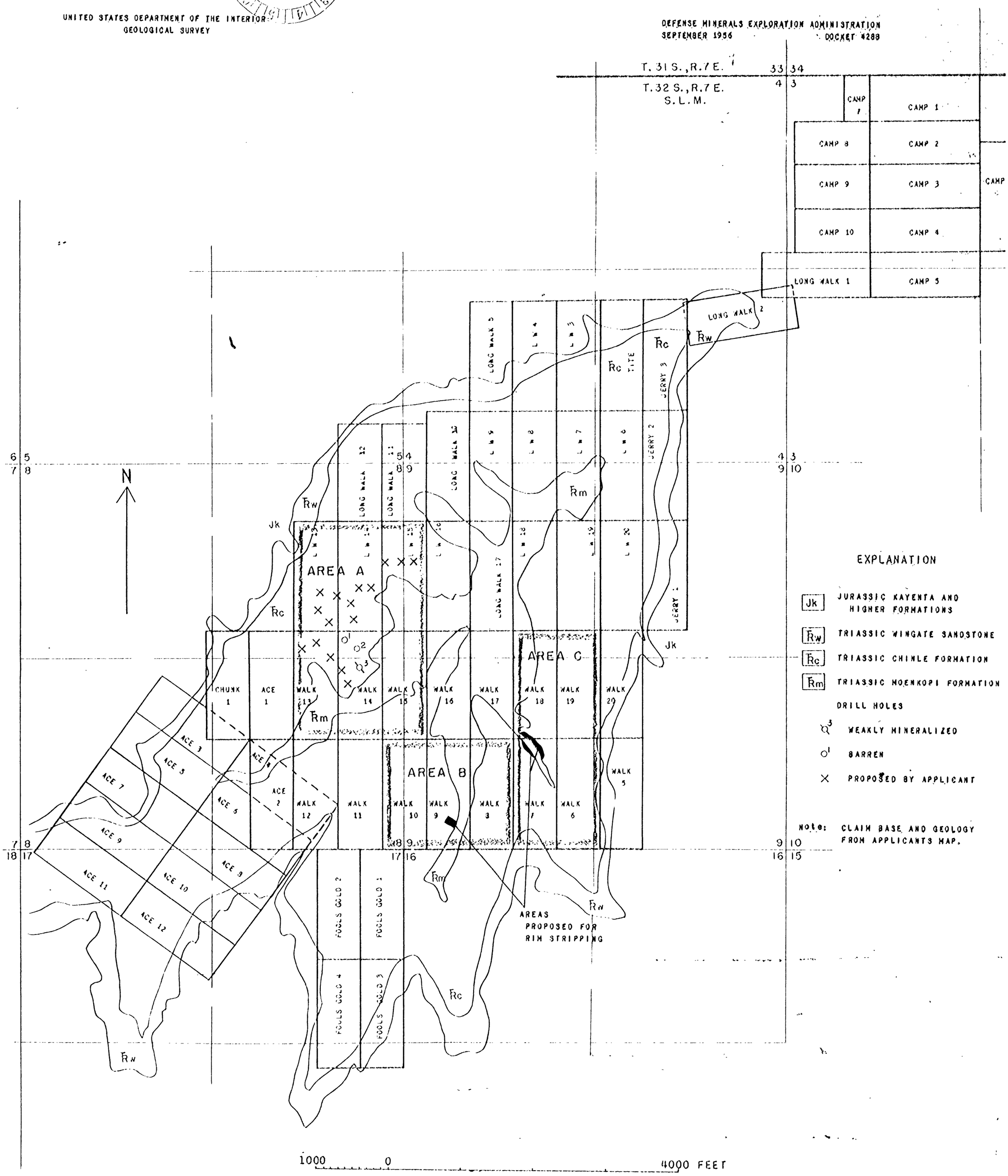
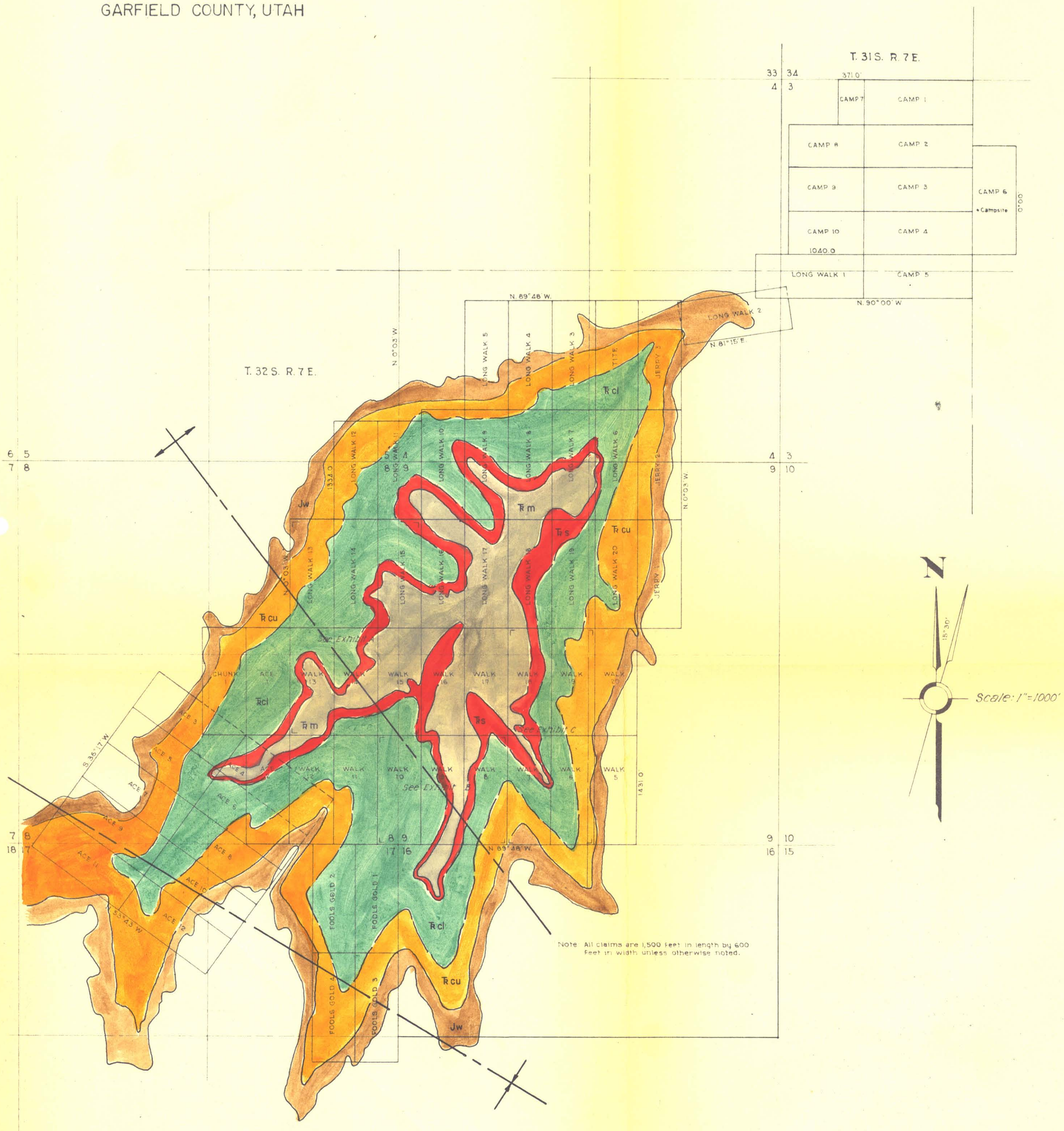


FIGURE 2.--MAP OF SOUTH COLEMAN CANYON CLAIM GROUP, SHOWING GEOLOGY, DRILL HOLES, AND PROPOSED EXPLORATION PROGRAM OF UNITED WESTERN MINERAL COMPANY, GARFIELD COUNTY, UTAH.

UNITED WESTERN MINERALS CO.
MINING CLAIM MAP
OF
SOUTH COLEMAN CANYON
T.32S., R.7E.
IN THE
UNKNOWN MINING DISTRICT UNORGANIZED
GARFIELD COUNTY, UTAH



GENERAL GEOLOGY OF SOUTH COLEMAN CANYON

Jw: Wingate ss. — Ŧs: Shinarump conglomerate

Ŧcu: Upper Chinle — Ŧm: Moenkopi

Ŧcl: Lower Chinle

Based on U.S.G.S. Photogeology — HNR