2/14/55 gla

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination, DMEA Docket 3547 (Uranium), Cherokee-Utah Uranium Corporation, Fort Knox claims, San Miguel County, Colorado

Enclosed are four copies of the report of examination on the subject docket, a copy of the letter of denial to the applicant and two copies of Form 3b.

W. H. KING

W. H. King

E. N. Harshman

E. N. Harshman

Field Team Region IV

HMC:pw

Reviewed by
DMEA OPERATING COMMITTEE

2-11-55
(date)

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Mr. D. C. Anderson, President
Cherokee-Utah Uranium Corporation
65 E. 4th South
Salt Lake City, Utah

Re: Docket DMEA-3547

Dear Mr. Anderson:

Reference is made to your application for Government aid on the Fort Knox claims.

The lack of definite exploration targets on these claims and the complex faulted and broken nature of the claim area preclude a well planned exploration program at this time. Under these circumstances, we regret to advise that your application is denied without prejudice.

Should you subsequently determine the complicated structural pattern of the area and prove the presence of definite exploration targets on the Fort Knox claims, a new application for DMEA assistance would receive proper consideration.

W. H. KING

W. H. King

E. N. Harshman

E. N. Harshman

DMEA Field Team, Region IV

DMC:pw

cc: Subject
Chron
Administrator (2)
Shaw
Harshman
Williams

Reviewed by
DMEA OPERATING COMMITTEE

2-11-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region III

TRANSMITTED
JAN 13 1955

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Memorandum

To: DMEA Field Team, Region IV

From: Superintendent, Denver Experiment Station

Subject: Report of Examination, DMEA Docket 3547 (Uranium), Cherokee, Utah, Uranium Corp., Fort Knox claims, San Miguel County, Colo.

Enclosed are eleven copies of the engineering report of examination on the subject docket.

The applicant requested $24,000.00 to explore the Fort Knox claims by core drilling.

The engineer examiner found insufficient data to warrant a well planned exploration project. He recommended that the application be denied without prejudice until such time as sufficient additional information is submitted concerning the Salt Wash sandstone on these claims.

We recommend that the application be denied without prejudice.

W. H. King

W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

TRANSMITTED
JAN 13 1955

Region IV

Building 20, Room 237
Denver Federal Center
Denver 2, Colorado
December 17, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3547 (Uranium) Cherokee-Utah Uranium Corp. (Fort Knox claims) San Miguel County, Colo.

Enclosed are the original and ten copies of a Summary, Conclusions and Recommendations by E. L. Bendette, Geological Survey, and Carl Balser, Bureau of Mines, and of Balser's engineering report on the subject docket.

Balser concludes that information available on the Salt Wash member of the Morrison formation, the only one favorable for the discovery of uranium deposits on the claims, is too meager to warrant Government financial aid in an exploration program. He recommends denial without prejudice and suggests that if the applicants produce additional information a revised loan request can be submitted.

I approve the conclusions and recommendations.

The brochure furnished with your memorandum of October 19, 1954, is also enclosed.

W. M. Traver

W. M. Traver

Enclosures

cc: 10
DMEA 3547
DMEA Chron.

WMT/lal

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

TRANSMITTED
JAN 13 1955

December 17, 1954

Memorandum

To: DMEA Field Team, Region IV

From: E. N. Harshman

Subject: DMEA Docket 3547 (uranium), Cherokee-Utah Uranium Corporation, Fort Knox claims, San Miguel County, Colorado

Enclosed are 10 copies of a geologic report by Eugene L. Boudette of the U. S. Geological Survey covering the above docket.

The Fort Knox group of claims lies on the southwest flank of the Gypsum Valley graben in a structurally complex area of block faulting. Faulting and slumping have continued to the present time and much of the surface is covered with landslide debris.

The lack of definite exploration targets on the claims, the complex faulted and broken nature of the claim area, and the probable small size of any uranium deposits which might be found by the proposed exploration lead Boudette to conclude that DMEA participation is not warranted. This conclusion appears justified.

The recommendation for denial is made without prejudice. Should the applicant subsequently determine the complicated structural pattern in the area and prove the presence of legitimate exploration targets on the Fort Knox claims, a new application for DMEA assistance might be accepted for processing.

E. N. Harshman
E. N. Harshman
Project Chief

Enclosures (10)

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3147, Fort Knox Claims

Gunnison-Utah Brandon Group,

San Miguel County, Colorado

Uranium

E. L. Boudette, Geologist
Geological Survey

Carl Balser, Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

December 14, 1954

DMEA 3547

FOUR KNOX CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

Summary, Conclusions and Recommendations

By R. L. Nuttall
Geologist
Geological Survey

Carl Palmer
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE

2-11-55
(date)

DMEA 3547

FORT KNOX CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By E. L. Bandstra and Carl Palmer

Cherokee-Utah Uranium Corp., D. C. Anderson, President and Director, 63 East 4th South Street, Salt Lake City, Utah, applied for a Defense Minerals Exploration Administration loan of $34,000.00 to explore the Fort Knox claims by 600 feet of core-hole drilling.

A field investigation was made on November 15, 1954, by an examining team from the Geological Survey and the Bureau of Mines. Alan B. Simpson, partner of Simpson Mining Company, part owner of the possessory rights on the Fort Knox claims, accompanied the team, and represented the applicant.

The Fort Knox claims are on the southwest side of Little Gypsum Valley in secs. 29 and 30, T. 43 N., R. 18 W., New Mexico principal meridian, San Miguel County, Colo.

The exposed rocks are of the Brushy Basin member of the Morrison formation of the Upper Jurassic. They are on the west flank of an anticline in which the underlying salt dome has been partially removed causing the overlying formations to break off. At least three of the breaks appear to cross the Fort Knox claims. The breaks have a northwesterly trend, paralleling the valley, and much of the surface on the property has slid. The Salt Wash, or lower member of the Morrison formation is thought to contain an ore horizon, but the thickness and character of the Salt Wash sandstones are unknown.

The applicant's proposal called for 15 drill holes, aggregating 6,000 feet of core-hole drilling at a total cost of $24,000.00.

The examining team recommends that the application be denied at this time without prejudice, but if the applicant furnishes additional information concerning the favorable Salt Wash sandstone on the claims, the application be reconsidered or a new one submitted.

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

RECEIVED

December 10, 1954

Memorandum

To: A. H. Koschmann, Supervising Geologist, DMEA Field Team, Region IV

From: Arnold L. Brokaw, District Supervisor

Subject: DMEA 3547, Cherokee-Utah Uranium Corporation, Fort Knox claims, (Uranium), San Miguel County, Colorado

Transmitted herewith are 10 copies of a geologic report by Eugene L. Boudette, covering a field examination of the above-referenced DMEA application.

After field examination, Boudette concludes that DMEA assistance on the subject property is not warranted; his reason are: (1) The property is almost completely covered by a thick layer of landslide debris which conceals the complex underlying faulted and broken structure. (2) Known uranium deposits in the vicinity are small and of little significance. (3) Because of the lack of known exploration targets on the property, the applicants' proposed program would be of a prospecting rather than exploration nature.

This application has been brought to the attention of the Exploration Division, U. S. Atomic Energy Commission, Grand Junction Operations Office. The Commission has been asked for its help and advice in evaluating the application.

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

W P Williams
For Arnold L. Brokaw

WPW/mlr
Enclosures 10

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

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

DMEA 3547, Cherokee-Utah Uranium Corporation,
Fort Knox Claims, San Miguel County, Colorado.

Uranium

Geologic Report

by

Eugene L. Boudette
U. S. Geological Survey

December 10, 1954

Reviewed by
DMEA OPERATING COMMITTEE
2-11-55
(date)

DMEA 3547

INTRODUCTION

The Cherokee-Utah Uranium Corporation, 65 E. 4th South, Salt Lake City, Utah, has applied (DMEA 3547) to the Defense Minerals Exploration Administration for assistance to explore for uranium ore on a portion of the Fort Knox claim group, Little Gypsum Valley area, secs. 19 and 30, T. 45 N., R. 18 W., Gypsum Valley mining district, San Miguel County, Colo. (fig. 1).

The claims were examined on Nov. 18, 1954, in company with Carl Belser, U. S. Bureau of Mines representative, W. P. Williams, U. S. Geological Survey representative, and Alan M. Simpson, consultant for lessee and a member of the lessor company. It is recommended that this application be denied.

GEOLOGY AND ORE RESERVES

The Fort Knox claims on which the applicants propose exploration (Fort Knox 8, 9, 10, 11, 15, 16, 17, 18, 22, and 23 and portions of 1, 2, 6, 7, 14, 24, and 25) lie on the southwest flank of the Gypsum Valley graben, a valley formed by the downfaulting of an anticlinal crest following the removal of salt beds by solution. The claims are underlain by rocks of lower Cretaceous and upper Jurassic age that are mostly concealed by Quaternary landslide debris. Observed exposures in the area are of the Burro Canyon formation (lower Cretaceous) and the Brushy Basin member of the Morrison formation (upper Jurassic). Figure 2 shows a part of Gypsum Valley and the generalized geologic setting of the claims.

The thickness of the landslide debris is variable and ranges up to about 50 feet. Observed Burro Canyon formation on the claims consists mainly of conglomeratic sandstone and probably does not exceed 100 feet in thickness. The Brushy Basin member of the Morrison formation which underlies most of the area averages 400 feet thick and is composed of varicolored mudstones with minor lenses of siltstone, sandstone, and conglomerate (Stokes and Phoenix, 1948). Underlying the Brushy Basin is the Salt Wash member of the Morrison formation which averages 350 feet thick and consists of equal amounts of gray sandstone and reddish gray shale (Stokes and Phoenix, 1948). Both the Burro Canyon and the Morrison formation are of fluviatile origin and probably thin normal to the long axis of the ancestral anticline as has been observed elsewhere in the valley. The upper sand units of the Salt Wash member is the known mineralized horizon in this part of Gypsum Valley.

The structural setting of the claims is relatively complex since they are situated on downfaulted blocks of the ancestral anticline. One major fault can be traced into the area and steep dips can be seen in the sediments. The faulting and slumping has continued to the present time, and the rocks are much fractured.

Mineralization occurs on the claims, but is of small and spotty nature. Favorable sandstones in the Salt Wash can be observed in rim exposures nearby and may project into the area. No uranium ore has been produced from the Fort Knox group of claims.

PROPOSED EXPLORATION

The applicant proposes to drill a grid of 15 holes on approximately 1,000-foot centers in totally unexplored ground at estimated depths of 350 to 400 feet. The estimated cost for the drilling is $24,000, with the costs prorated at $4.00 per foot for 6,000 feet of drilling. All preparation and services are included in the estimate and about 25 percent of the drilling will be core-drilled.

CONCLUSIONS AND RECOMMENDATIONS

Although the possibility exists that mineralization is present on the Fort Knox claims, no exploration is recommended at the present for the following reasons: (1) The applicant proposes a program of "long shot" type drilling and is not testing a known favorable or mineralized trend. As such, it resolves to a "wildcatting" type of approach. (2) The nature of the ground (highly fractured) and the complex and concealed structure of the area would present difficult drilling problems. Past Government drilling near this area has indicated that core recovery would be very poor. (3) Known deposits in the area are small and spotty. (4) Any drilling would necessitate very strict control by a qualified geologist familiar with the area.

It is recommended, therefore, that the application for DMEA assistance be denied. If in the future the applicant company could indicate mineralization and furnish further geologic information by drilling, the application for DMEA assistance could be reconsidered.

BIBLIOGRAPHY

1. Stokes, W. L., and Phoenix, D. A., 1948. Geology of the Egnar-Gypsum Valley area, San Miguel and Montrose Counties, Colorado. Oil and Gas investigations preliminary map 93.

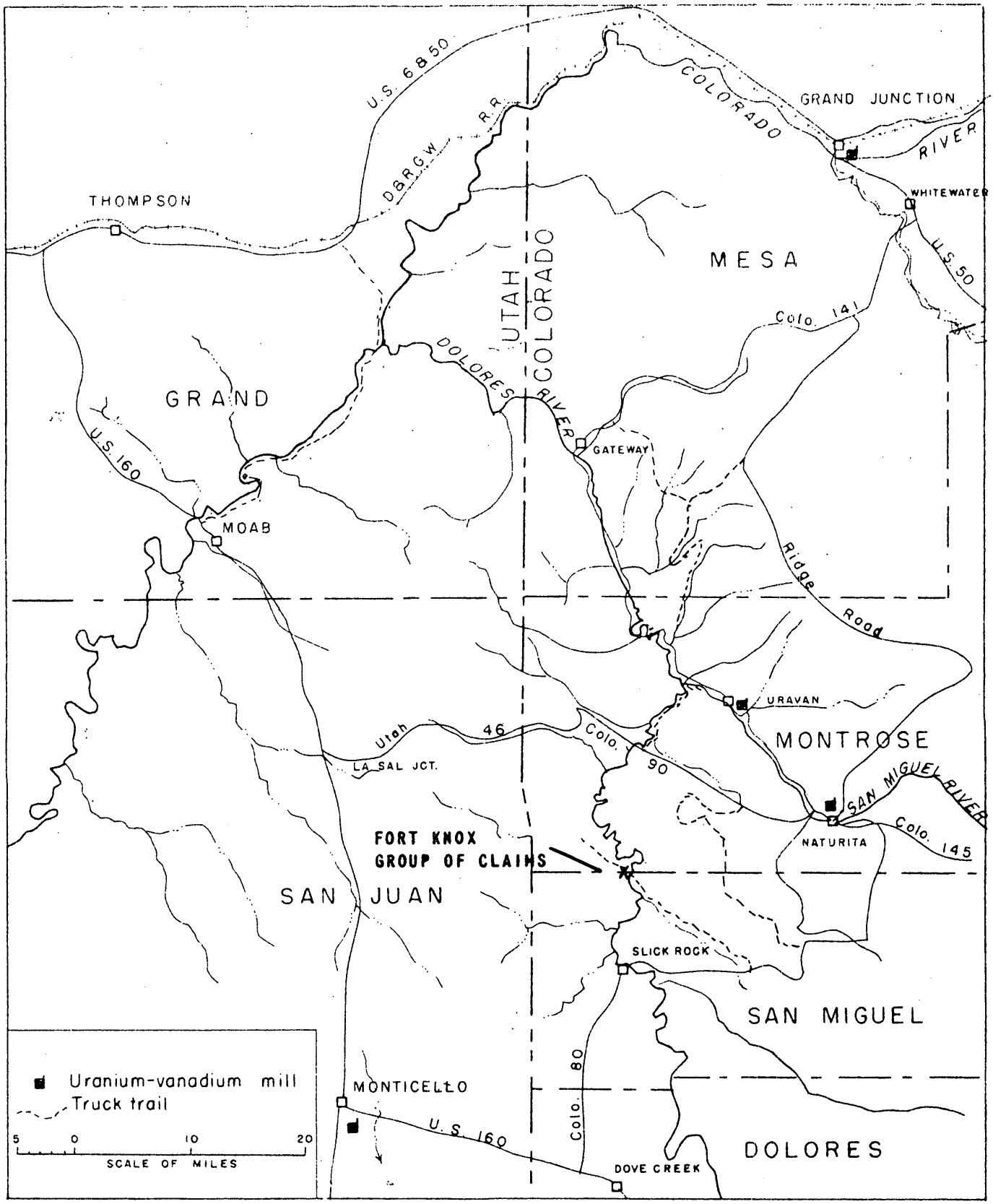

Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF THE FORT KNOX GROUP OF CLAIMS, LITTLE GYPSUM VALLEY, MONTROSE AND SAN MIGUEL COUNTIES, COLORADO

DMRA 3547

FORT NEW CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

EXAMINERS REPORT

By Carl Palmer

INTRODUCTION

Cherokee-Utah Uranium Corp., 66 East 4th South Street, Salt Lake City, Utah, submitted an application dated September 20, 1954, for a Defense Minerals Exploration Administration loan on the Fort Knox claims, Little Zip mining district, San Miguel County, Colo. The application, DMRA 3547, requested aid in completing 4,000 feet of core-hole drilling at a total estimated cost of $24,000.00--Government participation 75 percent, or $18,000.00. This proposed exploration was to test the Salt Wash member of the Morrison formation for uranium mineralization.

A joint field examination was made by a Geological Survey and Bureau of Mines examining team on November 18, 1954. The examining team, as a result of their investigations recommended that the application be denied at this time but that, if the applicant disclosed favorable Salt Wash conditions by subsequent drilling, the application be reconsidered.

ACKNOWLEDGEMENTS

Alan M. Simpson accompanied the examining team and represented the applicant.

Arnold L. Brabb, District Supervisor, Geological Survey, Grand Junction, Colo., assigned E. L. Hendricks, geologist, to make the examination as the Geological Survey member of the team. Hendricks was accompanied by W. F. Williams, geologist.

Members of the Atomic Energy Commission were consulted regarding the area before the examination was made.

LOCATION, TOPOGRAPHY, AND CLIMATE

The Park Ranger claims consists of 17 unpatented mining claims containing about 322 acres free from known conflicts. The claims are located in secs. 29 and 30, T. 45 N., R. 18 W., New Mexico principal meridian, Little Rip mining district, San Miguel County, Colo. (fig. 1).

The claims are on the southwest flank of the Gypsum Valley anticline and cover a northeasterly sloping bench which ranges in altitude from a low of 5,400 to a high of 6,400 feet. The sloping bench has been scoured by the slumping and breaking off of the unsupported strata near the axis of the Gypsum Valley anticline. The surface has sloughed and slid.

A network of short access roads connect with a good graveled highway from whence it is 31 miles to Naturita, 65 miles to Norwood, 66 miles to Uravan, and 105 miles to Ridgway, all in Colorado.

Labor, supplies, and light equipment can be obtained in Naturita, Uravan, and Norwood. Ridgway, on the Denver and Rio Grande Western Railroad is the nearest railroad shipping point. Timber, suitable for some mine uses, grows on the property. Large timbers and dimension lumber can be purchased in the nearby towns. The

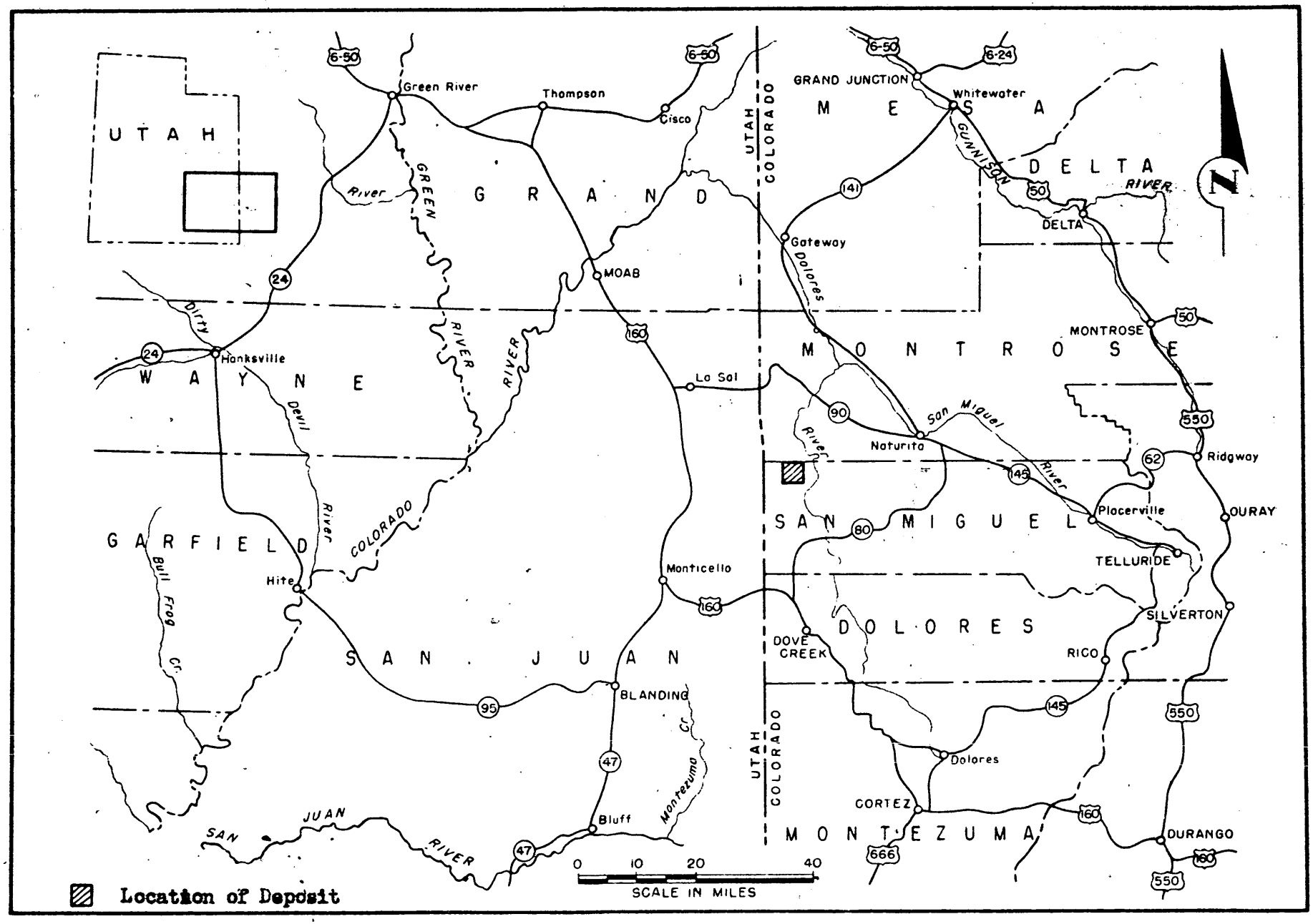

FIGURE 1 - LOCATION MAP, FORT KNOX CLAIMS, CHEROKEE - UTAH URANIUM CORP., SAN MIGUEL COUNTY, COLO.
(DMEA 3547)

nearest uranium mills and ore depots are at Naturita and Uravan.

Annual rainfall is light and the country is classed as semi-arid. Winter snowfalls seldom exceed 6 inches and mining operations can be maintained the year around. Water for drilling purposes can be had from the nearby Dolores River, and domestic water can be hauled from Slick Rock or Naturita.

HISTORY AND PRODUCTION

Prospecting for uranium became of interest following the introduction of the Government buying schedules in 1948. Some high-grade uranium ore was packed out from the adjoining Keynoker, Sunset, and Sunny Boy claims in 1950. It is stated that 1,000 tons of vanadium ore was produced from the Sunset claim during World War II. A small production of uranium ore is being made from the Golden Eagle group at the present time. No production has been made from the Fort Knox claims.

OWNERSHIP AND EXTENT

Possessory rights on the 17 Fort Knox claims, with the exception of conflicts with South Canyon Fractions No. 1, New Moon, and New Moon No. 1, and excluding such portion as covered by Atomic Energy Commission lease AT (05-1)-08-10, are vested in the Alan M. Simpson and Julian E. Simpson Mining Company, Arthur Hamilton, Otis Phillips, John W. Harris, W. D. McDavid, Ben Phillips and Graham E. Ladd. The claims shown on figure 2 are recorded in the office of the County Recorder of San Miguel County as follows:

Claim	Book	Page
Fort Knox No. 1	[illegible]	932
Fort Knox No. 2	[illegible]	933
Fort Knox No. 6	[illegible]	934
Fort Knox No. 7	[illegible]	935
Fort Knox No. 8	[illegible]	936
Fort Knox No. 9	[illegible]	937
Fort Knox No. 10	[illegible]	938
Fort Knox No. 11	[illegible]	939
Fort Knox No. 14	[illegible]	940
Fort Knox No. 15	[illegible]	941
Fort Knox No. 16	[illegible]	942
Fort Knox No. 17	[illegible]	943
Fort Knox No. 18	[illegible]	944
Fort Knox No. 20	[illegible]	945
Fort Knox No. 23	[illegible]	946
Fort Knox No. 24	[illegible]	947
Fort Knox No. 25	[illegible]	948

A 5-year lease with extension privileges was granted to D. C. Anderson on May 7, 1954. On the same day the lease was assigned by Anderson to the applicant.

DESCRIPTION OF DEPOSITS

There are no known deposits of uranium on the claims. The uranium mineralization is thought to occur in sandstone lenses of the upper Salt Wash rim but the claims are covered with Brady Basin material which has, to some extent, slid downhill.

MINEABLE ORE RESERVES

There are no known mineable ore reserves on the property.

PRESENT STATUS

Exploration and Development

No exploration work has been done on the property to date.

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment on the property,

and the only facilities consists of a network of access roads and some prepared drill sites (fig. 2).

PROPOSED EXPLORATION

The applicant proposes to explore the claims by 15 core-drill holes aggregating 6,000 lineal feet, of which 25 percent or 1,500 feet would be cored. The total overall cost was estimated at $24,000.00, or $4.00 a foot.

ESTIMATED COST OF PROJECT

The applicant's estimate included all drilling costs, and were lumped at $4.00 a foot.

Engineer's Estimated Cost of Project

Time required for completion estimated as two months

Independent contracts		
Core drilling, AX minimum size hole, 1,500 feet at $4.00 a feet	$6,000.00	
Non-core drilling, AX minimum size hole, 4,500 feet at $2.20 a feet	9,900.00	
Bulldozing, 40 hours at $11.00 an hour	440.00	
Total independent contracts		$16,340.00
Labor and Supervision		
Labor (none)		
Supervision		
Supervisor-engineer, 2 months at $600.00/mo.	1,200.00	
Total labor and supervision		1,200.00
Operating Materials and Supplies		
30 wooden core boxes, $3.00 each	110.00	
300 gallons gasoline at $.32/gal.	96.00	
Total operating materials and supplies		246.00
Operating Equipment (Rental)		
1 Willys pickup, valuation $2400.00 depreciated at $40.00/mo. for 2 months	80.00	
Total operating equipment		80.00

Initial Rehabilitation and Repairs
None

New Buildings, Improvements, etc.
None

Miscellaneous

Analytical work, 28 samples at $4.00 each	$ 110.00	
Accounting, 2 months at $50.00/mo.	100.00	
Compensation and liability insurance and payroll taxes, 5 percent of $1,200.00	60.00	
Repair and maintenance of Jeep, 2 months at $25.00/mo.	50.00	
Total miscellaneous		$ 320.00

Total estimated exploratory drilling costs	$18,416.00
Average cost per foot for 6,000 feet of drilling	3.07

SUMMARY COST OF PROJECT

Core-hole drilling 6,000 feet at $3.07 per foot	$18,420.00
Government participation--75 percent	$13,815.00

CONCLUSIONS

The Fort Knox claims are adjacent to properties on the north from which a small production of uranium ore has been made. However, the area covered by the claims has been broken off of the southwest dipping flank of an anticline and is now dipping sharply to the northeast. The Salt Wash member of the Morrison formation is covered by Brushy Basin material which has, in part, slid downhill. Until more data is available, the examining team does not believe that Government participation in a drilling project is justified.

RECOMMENDATIONS

It is recommended that the application be denied at this time, without prejudice, but that, if the applicant provides additional information concerning the favorable Salt Wash sandstone on the claims, the application can be reconsidered or a new one submitted.

DMEA 3547

FORT KNOX CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

Engineering Report

By [illegible]
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE

2-11-55
(date)

BMBA 3547

FORT BENN CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

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ILLUSTRATIONS

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2. Claim map showing proposed exploration, Fort Benn Claims Cherokee-Utah Uranium Corp., San Miguel County, Colo. (BMBA 3547)	3

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

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Report of Examination, DMEA Docket 3547 (Uranium), Cherokee-Utah Uranium Corporation, Fort Knox claims, San Miguel County, Colorado

Enclosed are four copies of the report of examination on the subject docket, a copy of the letter of denial to the applicant and two copies of Form 3b.

W. H. King

W. H. King

E. N. Harshman

E. N. Harshman

HMC:pw

Field Team, Region IV

224 New Customhouse
Denver 2, Colorado

January 13, 1955

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E. N. Harshman

E. N. Harshman

Field Team Region IV

HMC

HMC:pw

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Mr. D. C. Anderson, President
Cherokee-Utah Uranium Corporation
65 E. 4th South
Salt Lake City, Utah

Re: Docket DMEA-3547

Dear Mr. Anderson:

Reference is made to your application for Government aid on the Fort Knox claims.

The lack of definite exploration targets on these claims and the complex faulted and broken nature of the claim area preclude a well planned exploration program at this time. Under these circumstances, we regret to advise that your application is denied without prejudice.

Should you subsequently determine the complicated structural pattern of the area and prove the presence of definite exploration targets on the Fort Knox claims, a new application for DMEA assistance would receive proper consideration.

W. H. KING

W. H. King

E. N. Harshman

E. N. Harshman

DMEA Field Team, Region IV

EMC:pw

cc: Subject
Chron
Administrator (2)
Shaw
Harshman
Williams

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region III

TRANSMITTED
JAN 13 1955

224 New Customhouse
Denver 2, Colorado
January 13, 1955

Memorandum

To: DMEA Field Team, Region IV

From: Superintendent, Denver Experiment Station

Subject: Report of Examination, DMEA Docket 3547 (Uranium), Cherokee, Utah, Uranium Corp., Fort Knox claims, San Miguel County, Colo.

Enclosed are eleven copies of the engineering report of examination on the subject docket.

The applicant requested $24,000.00 to explore the Fort Knox claims by core drilling.

The engineer examiner found insufficient data to warrant a well planned exploration project. He recommended that the application be denied without prejudice until such time as sufficient additional information is submitted concerning the Salt Wash sandstone on these claims.

We recommend that the application be denied without prejudice.

W. H. King

W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

TRANSMITTED

JAN 13 1955

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
December 17, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 3547 (Uranium) Cherokee-Utah Uranium Corp. (Fort Knox claims) San Miguel County, Colo.

Enclosed are the original and ten copies of a Summary, Conclusions and Recommendations by F. L. Bandette, Geological Survey, and Carl Palmer, Bureau of Mines, and of Palmer's engineering report on the subject deposit.

Palmer concludes that information available on the Salt Wash member of the Morrison formation, the only one favorable for the discovery of uranium deposits on the claims, is too meager to warrant Government financial aid in an exploration program. He recommends denial without prejudice and suggests that if the applicants produce additional information a revised loan request can be submitted.

I approve the conclusions and recommendations.

The brochure furnished with your memorandum of October 19, 1954, is also enclosed.

W. M. Trever

Enclosures

W. M. Trever

cc: 10
DMEA 3547
DMEA Chron.

WMT/lal

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR

TRANSMITTED

GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

JAN 13 1955

December 17, 1954

Memorandum

To: DMEA Field Team, Region IV

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Subject: DMEA Docket 3547 (uranium), Cherokee-Utah Uranium Corporation, Fort Knox claims, San Miguel County, Colorado

Enclosed are 10 copies of a geologic report by Eugene L. Boudette of the U. S. Geological Survey covering the above docket.

The Fort Knox group of claims lies on the southwest flank of the Gypsum Valley graben in a structurally complex area of block faulting. Faulting and slumping have continued to the present time and much of the surface is covered with landslide debris.

The lack of definite exploration targets on the claims, the complex faulted and broken nature of the claim area, and the probable small size of any uranium deposits which might be found by the proposed exploration lead Boudette to conclude that DMEA participation is not warranted. This conclusion appears justified.

The recommendation for denial is made without prejudice. Should the applicant subsequently determine the complicated structural pattern in the area and prove the presence of legitimate exploration targets on the Fort Knox claims, a new application for DMEA assistance might be accepted for processing.

E. N. Harshman

E. N. Harshman
Project Chief

Enclosures (10)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA 3547, Fort Knox Claims

Cherokee-Utah Uranium Corp.

San Miguel County, Colorado

Uranium

E. L. Boudette, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

December 14, 1954

DMEA 3547

FORT KNOX CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

Summary, Conclusions and Recommendations

By E. L. Boudette
Geologist
Geological Survey

Carl Belser
Mining Engineer
Bureau of Mines

DMEA 3547

FORT KNOX CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By E. L. Boudette and Carl Belser

Cherokee-Utah Uranium Corp., D. C. Anderson, President and Director, 63 East 4th South Street, Salt Lake City, Utah, applied for a Defense Minerals Exploration Administration loan of $24,000.00 to explore the Fort Knox claims by 600 feet of core-hole drilling.

A field investigation was made on November 18, 1954, by an examining team from the Geological Survey and the Bureau of Mines. Alan B. Simpson, partner of Simpson Mining Company, part owner of the possessory rights on the Fort Knox claims, accompanied the team, and represented the applicant.

The Fort Knox claims are on the southwest side of Little Gypsum Valley in secs. 19 and 30, T. 45 N., R. 18 W., New Mexico principal meridian, San Miguel County, Colo.

The exposed rocks are of the Brushy Basin member of the Morrison formation of the Upper Jurassic. They are on the west flank of an anticline in which the underlying salt dome has been partially removed causing the overlying formations to break off. At least three of the breaks appear to cross the Fort Knox claims. The breaks have a northwesterly trend, paralleling the valley, and much of the surface on the property has slid. The Salt Wash, or lower member of the Morrison formation is thought to contain an ore horizon, but the thickness and character of the Salt Wash sandstones are unknown.

The applicant's proposal called for 15 drill holes, aggregating 6,000 feet of core-hole drilling at a total cost of $24,000.00.

The examining team recommends that the application be denied at this time without prejudice, but if the applicant furnishes additional information concerning the favorable Salt Wash sandstone on the claims, the application be reconsidered or a new one submitted.

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

December 10, 1954

Memorandum

To: A. H. Koschmann, Supervising Geologist, DMEA Field Team, Region IV

From: Arnold L. Brokaw, District Supervisor

Subject: DMEA 3547, Cherokee-Utah Uranium Corporation, Fort Knox claims, (Uranium), San Miguel County, Colorado

Transmitted herewith are 10 copies of a geologic report by Eugene L. Boudette, covering a field examination of the above-referenced DMEA application.

After field examination, Boudette concludes that DMEA assistance on the subject property is not warranted; his reason are: (1) The property is almost completely covered by a thick layer of landslide debris which conceals the complex underlying faulted and broken structure. (2) Known uranium deposits in the vicinity are small and of little significance. (3) Because of the lack of known exploration targets on the property, the applicants' proposed program would be of a prospecting rather than exploration nature.

This application has been brought to the attention of the Exploration Division, U. S. Atomic Energy Commission, Grand Junction Operations Office. The Commission has been asked for its help and advice in evaluating the application.

W P Williams
For Arnold L. Brokaw

WPW/mlr
Enclosures 10

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

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

DMEA 3547, Cherokee-Utah Uranium Corporation, Fort Knox Claims, San Miguel County, Colorado.

Uranium

Geologic Report

by

Eugene L. Boudette
U. S. Geological Survey

December 10, 1954

DMEA 3547

INTRODUCTION

The Cherokee-Utah Uranium Corporation, 65 E. 4th South, Salt Lake City, Utah, has applied (DMEA 3547) to the Defense Minerals Exploration Administration for assistance to explore for uranium ore on a portion of the Fort Knox claim group, Little Gypsum Valley area, secs. 19 and 30, T. 45 N., R. 18 W., Gypsum Valley mining district, San Miguel County, Colo. (fig. 1).

The claims were examined on Nov. 18, 1954, in company with Carl Belser, U. S. Bureau of Mines representative, W. P. Williams, U. S. Geological Survey representative, and Alan M. Simpson, consultant for lessee and a member of the lessor company. It is recommended that this application be denied.

GEOLOGY AND ORE RESERVES

The Fort Knox claims on which the applicants propose exploration (Fort Knox 8, 9, 10, 11, 15, 16, 17, 18, 22, and 23 and portions of 1, 2, 6, 7, 14, 24, and 25) lie on the southwest flank of the Gypsum Valley graben, a valley formed by the downfaulting of an anticlinal crest following the removal of salt beds by solution. The claims are underlain by rocks of lower Cretaceous and upper Jurassic age that are mostly concealed by Quaternary landslide debris. Observed exposures in the area are of the Burro Canyon formation (lower Cretaceous) and the Brushy Basin member of the Morrison formation (upper Jurassic). Figure 2 shows a part of Gypsum Valley and the generalized geologic setting of the claims.

The thickness of the landslide debris is variable and ranges up to about 50 feet. Observed Burro Canyon formation on the claims consists mainly of conglomeratic sandstone and probably does not exceed 100 feet in thickness. The Brushy Basin member of the Morrison formation which underlies most of the area averages 400 feet thick and is composed of varicolored mudstones with minor lenses of siltstone, sandstone, and conglomerate (Stokes and Phoenix, 1948). Underlying the Brushy Basin is the Salt Wash member of the Morrison formation which averages 350 feet thick and consists of equal amounts of gray sandstone and reddish gray shale (Stokes and Phoenix, 1948). Both the Burro Canyon and the Morrison formation are of fluviatile origin and probably thin normal to the long axis of the ancestral anticline as has been observed elsewhere in the valley. The upper sand units of the Salt Wash member is the known mineralized horizon in this part of Gypsum Valley.

The structural setting of the claims is relatively complex since they are situated on downfaulted blocks of the ancestral anticline. One major fault can be traced into the area and steep dips can be seen in the sediments. The faulting and slumping has continued to the present time, and the rocks are much fractured.

Mineralization occurs on the claims, but is of small and spotty nature. Favorable sandstones in the Salt Wash can be observed in rim exposures nearby and may project into the area. No uranium ore has been produced from the Fort Knox group of claims.

PROPOSED EXPLORATION

The applicant proposes to drill a grid of 15 holes on approximately 1,000-foot centers in totally unexplored ground at estimated depths of 350 to 400 feet. The estimated cost for the drilling is $24,000, with the costs prorated at $4.00 per foot for 6,000 feet of drilling. All preparation and services are included in the estimate and about 25 percent of the drilling will be core-drilled.

CONCLUSIONS AND RECOMMENDATIONS

Although the possibility exists that mineralization is present on the Fort Knox claims, no exploration is recommended at the present for the following reasons: (1) The applicant proposes a program of "long shot" type drilling and is not testing a known favorable or mineralized trend. As such, it resolves to a "wildcatting" type of approach. (2) The nature of the ground (highly fractured) and the complex and concealed structure of the area would present difficult drilling problems. Past Government drilling near this area has indicated that core recovery would be very poor. (3) Known deposits in the area are small and spotty. (4) Any drilling would necessitate very strict control by a qualified geologist familiar with the area.

It is recommended, therefore, that the application for DMEA assistance be denied. If in the future the applicant company could indicate mineralization and furnish further geologic information by drilling, the application for DMEA assistance could be reconsidered.

BIBLIOGRAPHY

1. Stokes, W. L., and Phoenix, D. A., 1948. Geology of the Egnar-Gypsum Valley area, San Miguel and Montrose Counties, Colorado. Oil and Gas investigations preliminary map 93.

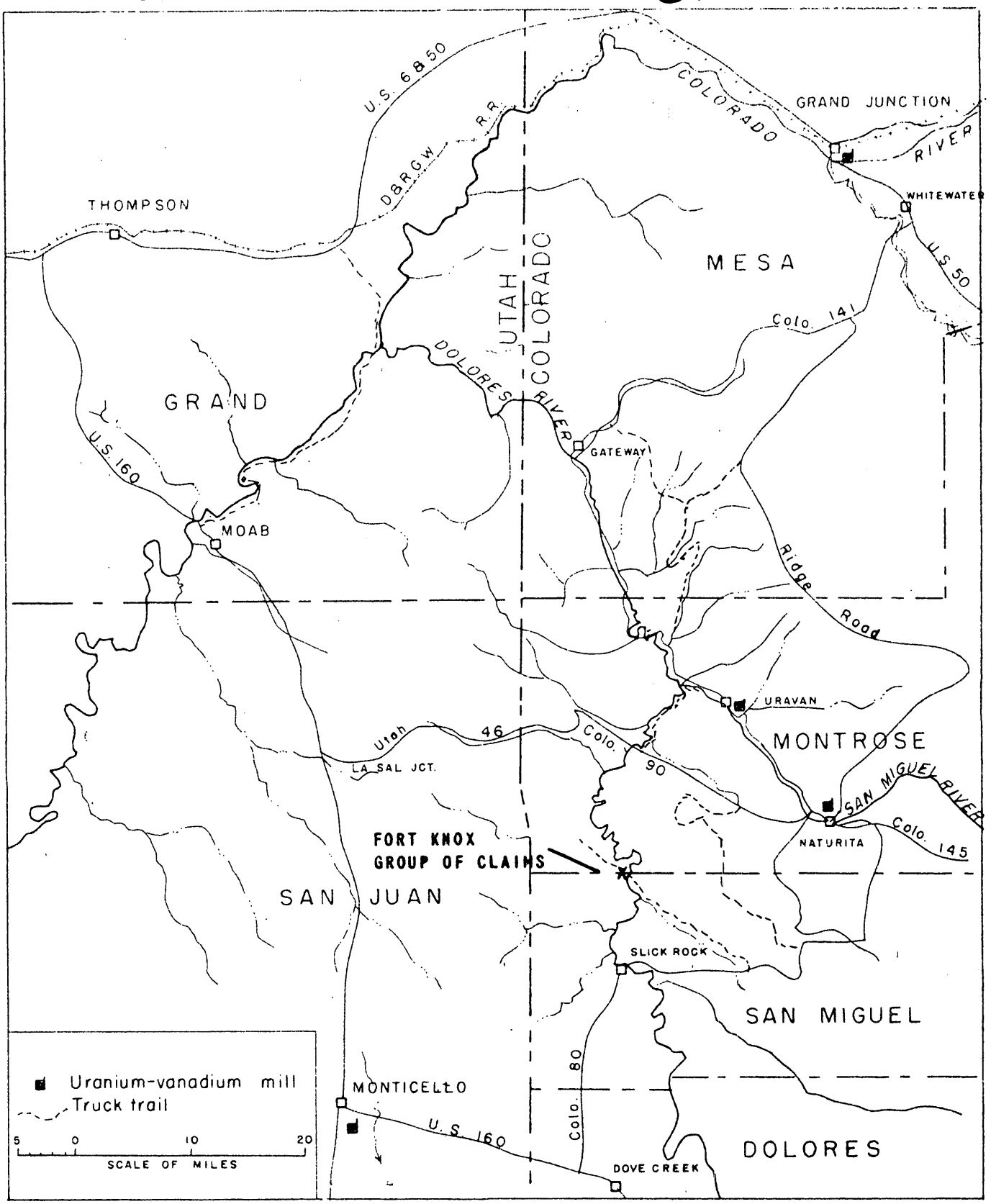

Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF THE FORT KNOX GROUP OF CLAIMS, LITTLE GYPSUM VALLEY, MONTROSE AND SAN MIGUEL COUNTIES, COLORADO

DMEA 3547

FORT KNOX CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

RECEIVED

Engineering Report

By Carl Belser
Mining Engineer
Bureau of Mines

DMEA 3547

FORT KNOX CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

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ILLUSTRATIONS

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1. Location map, Fort Knox Claims, Cherokee-Utah Uranium Corp., San Miguel County, Colo. (DMEA 3547).. 2

2. Claim map showing proposed exploration, Fort Knox Claims Cherokee-Utah Uranium Corp., San Miguel County, Colo. (DMEA 3547)..... 3

DMEA 3547

FORT KNOX CLAIMS
CHEROKEE-UTAH URANIUM CORP.
SAN MIGUEL COUNTY, COLO.

ENGINEERING REPORT

By Carl Belser

INTRODUCTION

Cherokee-Utah Uranium Corp., 65 East 4th South Street, Salt Lake City, Utah, submitted an application dated September 20, 1954, for a Defense Minerals Exploration Administration loan on the Fort Knox claims, Little Jip mining district, San Miguel County, Colo. The application, DMEA 3547, requested aid in completing 6,000 feet of core-hole drilling at a total estimated cost of $24,000.00--Government participation 75 percent, or $18,000.00. This proposed exploration was to test the Salt Wash member of the Morrison formation for uranium mineralization.

A joint field examination was made by a Geological Survey and Bureau of Mines examining team on November 18, 1954. The examining team, as a result of their investigations recommended that the application be denied at this time but that, if the applicant disclosed favorable Salt Wash sandstones by subsequent drilling, the application be reconsidered.

ACKNOWLEDGEMENTS

Alan M. Simpson accompanied the examining team and represented the applicant.

Arnold L. Brokaw, District Supervisor, Geological Survey, Grand Junction, Colo., assigned E. L. Boudette, geologist, to make the examination as the Geological Survey member of the team. Boudette was accompanied by W. P. Williams, geologist.

Members of the Atomic Energy Commission were consulted regarding the area before the examination was made.

LOCATION, TOPOGRAPHY, AND CLIMATE

The Fort Knox claims consists of 17 unpatented mining claims containing about 282 acres free from known conflicts. The claims are located in secs. 19 and 30, T. 45 N., R. 18 W., New Mexico principal meridian, Little Jip mining district, San Miguel County, Colo. (fig. 1).

The claims are on the southwest flank of the Gypsum Valley anticline and cover a northeasterly sloping bench which ranges in altitude from a low of 5,400 to a high of 6,600 feet. The sloping bench has been caused by the slumping and breaking off of the unsupported strata near the axis of the Gypsum Valley anticline. The surface has sloughed and slid.

A network of short access roads connect with a good graveled highway from whence it is 51 miles to Naturita, 65 miles to Norwood, 66 miles to Uravan, and 105 miles to Ridgeway, all in Colorado.

Labor, supplies, and light equipment can be obtained in Naturita, Uravan, and Norwood. Ridgeway, on the Denver and Rio Grande Western Railroad is the nearest railroad shipping point. Pinon, suitable for some mine uses, grows on the property. Large timbers and dimension lumber can be purchased in the nearby towns. The

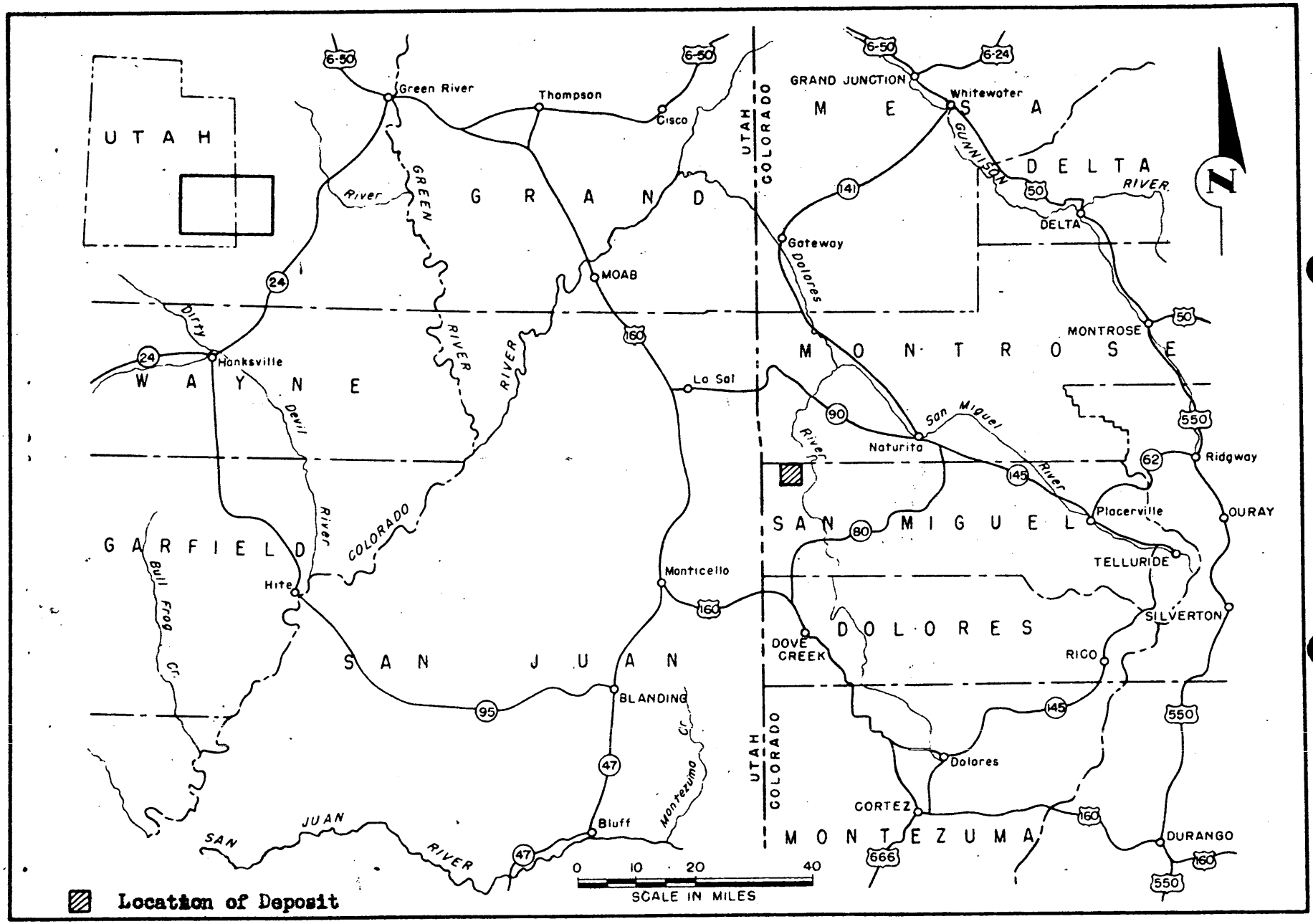

FIGURE 1 - LOCATION MAP, FORT KNOX CLAIMS, CHEROKEE - UTAH URANIUM CORP., SAN MIGUEL COUNTY, COLO.
(DMEA 3547)

nearest uranium mills and ore depots are at Naturita and Uravan.

Annual rainfall is light and the country is classed as semi-arid. Winter snowfalls seldom exceed 6 inches and mining operations can be maintained the year around. Water for drilling purposes can be had from the nearby Dolores River, and domestic water can be hauled from Slick Rock or Naturita.

HISTORY AND PRODUCTION

Prospecting for uranium became of interest following the introduction of the Government buying schedules in 1948. Some high-grade uranium ore was packed out from the adjoining Haymaker, Sunset, and Honey Bee claims in 1920. It is stated that 1,000 tons of vanadium ore was produced from the Sunset claim during World War II. A small production of uranium ore is being made from the Golden Eagle group at the present time. No production has been made from the Fort Knox claims.

OWNERSHIP AND EXTENT

Possessory rights on the 17 Fort Knox claims, with the exception of conflicts with South Canyon Faultless No. 1, New Moon, and New Moon No. 1, and excluding such portion as covered by Atomic Energy Commission lease AT (05-1)-OG-10, are vested in the Alan M. Simpson and Julian E. Simpson Mining Company, Arthur Hamilton, Otis Phillips, John W. Harris, W. D. McDavid, Rex Phillips and Graham B. Ladd. The claims shown on figure 2 are recorded in the office of the County Recorder of San Miguel County as follows:

Claim	Book	Page
Fort Knox No. 1	225	932
Fort Knox No. 2	225	933
Fort Knox No. 6	225	934
Fort Knox No. 7	225	935
Fort Knox No. 8	225	936
Fort Knox No. 9	225	937
Fort Knox No. 10	225	938
Fort Knox No. 11	225	939
Fort Knox No. 14	225	940
Fort Knox No. 15	225	941
Fort Knox No. 16	225	942
Fort Knox No. 17	225	943
Fort Knox No. 18	225	944
Fort Knox No. 22	225	945
Fort Knox No. 23	225	946
Fort Knox No. 24	225	947
Fort Knox No. 25	225	948

A 5-year lease with extension privileges was granted to D. C. Anderson on May 7, 1954. On the same day the lease was assigned by Anderson to the applicant.

DESCRIPTION OF DEPOSITS

There are no known deposits of uranium on the claims. The uranium mineralization is thought to occur in sandstone lenses of the upper Salt Wash rim but the claims are covered with Brushy Basin material which has, to some extent, slid downhill.

MINEABLE ORE RESERVES

There are no known mineable ore reserves on the property.

PRESENT STATUS

Exploration and Development

No exploration work has been done on the property to date.

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment on the property,

and the only facilities consists of a network of access roads and some prepared drill sites (fig. 2).

PROPOSED EXPLORATION

The applicant proposes to explore the claims by 15 core-drill holes aggregating 6,000 lineal feet, of which 25 percent or 1,500 feet would be cored. The total overall cost was estimated at $24,000.00, or $4.00 a foot.

ESTIMATED COST OF PROJECT

The applicant's estimate included all drilling costs, and were lumped at $4.00 a foot.

Engineer's Estimated Cost of Project

Time required for completion estimated as two months

Independent contracts		
Core drilling, AX minimum size hole, 1,500 feet at $4.00 a foot	$6,000.00	
Non-core drilling, AX minimum size hole, 4,500 feet at $2.20 a foot	9,900.00	
Bulldozing, 60 hours at $11.00 an hour	660.00	
Total independent contracts		$16,560.00
Labor and Supervision		
Labor (none)		
Supervision		
Supervisor-engineer, 2 months at $600.00/mo.	1,200.00	
Total labor and supervision		1,200.00
Operating Materials and Supplies		
30 wooden core boxes, $5.00 each	150.00	
300 gallons gasoline at $.32/gal.	96.00	
Total operating materials and supplies		246.00
Operating Equipment (Rental)		
1 Willys pickup, valuation $2400.00 depreciated at $40.00/mo. for 2 months	80.00	
Total operating equipment		80.00

Initial Rehabilitation and Repairs
None

New Buildings, Improvements, etc.
None

Miscellaneous

Analytical work, 20 samples at $6.00 each	$ 120.00	
Accounting, 2 months at $50.00/mo.	100.00	
Compensation and liability insurance and payroll taxes, 5 percent of $1,200.00	60.00	
Repair and maintenance of Jeep, 2 months at $25.00/mo.	50.00	
Total miscellaneous		$ 330.00
Total estimated core-hole drilling costs		$18,416.00
Average cost per foot for 6,000 feet of drilling		3.07

SUMMARY COST OF PROJECT

Core-hole drilling 6,000 feet at $3.07 per foot	$18,420.00
Government participation--75 percent	$13,815.00

CONCLUSIONS

The Fort Knox claims are adjacent to properties on the north from which a small production of uranium ore has been made. However, the area covered by the claims has been broken off of the southwest dipping flank of an anticline and is now dipping sharply to the northeast. The Salt Wash member of the Morrison formation is covered by Brushy Basin material which has, in part, slid downhill. Until more data is available, the examining team does not believe that Government participation in a drilling project is justified.

RECOMMENDATIONS

It is recommended that the application be denied at this time, without prejudice, but that, if the applicant provides additional information concerning the favorable Salt Wash sandstone on the claims, the application can be reconsidered or a new one submitted.

/ici

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 25 1954

224 New Customhouse
Denver 2, Colorado

October 22, 1954

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate is DMEA Form 3a and MF-103 and supporting data pertaining to the following applications for Government assistance in exploration work:

Cherokee-Utah Uranium Corporation	Uranium
Mosch, Brown, and Mosch	Tungsten

W. H. King

W. H. King

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
OCT 25 1954

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. 3547
Metal or Mineral Uranium
Date Received
Estimated Cost $24,000
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: Chromtoe-Utah Uranium Corporation, 65 N. 4th South, Salt Lake City, Utah

(See attached)

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

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

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

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

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

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

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

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

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

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

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

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

.....

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ 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 Sept. 20, 1954

CHICAGO URAN URANIUM CORPORATION
(Applicant)

By [illegible] 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

1. (a) Cherokee Utah Uranium Corporation, a Utah corporation, 65 East Fourth South Street, Salt Lake City, Utah.

(c) The officers and directors of the corporation are as follows:

D. C. ANDERSON	President & Director	65 E. 4th So. Salt Lake City
R. A. CONKLY	Vice-Pres. & Director	165 So. 1st. West Salt Lake City
D. Howe Moffat	Secretary & Director	801 Continental Bank Bldg. Salt Lake City
E. H. Cameron	Treasurer & Director	65 E. 4th. So. Salt Lake City
M. H. O'Connell	Director	Box 2167 Casper, Wyoming
Bernard Ablon	Dibector	2114 Canton Street Dallas, Texas

3. (a) The legal description of the land upon which we wish to explore is described as follows:

FORT KNOX CLAIMS, (from Little Gypsum Valley Claim Group) numbered 1, 2, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 22, 23, 24, and 25. (Excluding therefrom all conflicts with South Canyon Faultless No. 1 and excluding such portion of said Fort Knox claims within the area covered by the lease from the Atomic Energy Commission to Simpson Mining Co.)

(b) There is no mine name by which the property is known, but the claims are known as the Fort Knox Claims.

(c) Cherokee's interest in these claims is as Lessee of the Simpson Mining Co; of Grand Junction, Colorado.

(d) (A copy of the lease and assignment of lease on the Fort Knox Claims is attached as Exhibit A.)

(f)

Name of Claim	Book	Page
Fort Knox No. 1	225	932
" " No. 2	225	933
" " No. 6	225	934
" " No. 7	225	935
" " No. 8	225	936
" " No. 9	225	937
" " No. 10	225	938
" " No. 11	225	939
" " No. 14	225	940
" " No. 15	225	941
" " No. 16	225	942
" " No. 17	225	943
" " No. 18	225	944
" " No. 22	225	945
" " No. 23	225	946
" " No. 24	225	947
" " No. 25	225	948

(The above claims have been duly recorded in the office of the County Recorder, San Miguel County, State of Colorado.)

4. (a) There are no existing mine workings or production facilities upon the properties at the present time.

(b) There has been no current production, past production or no known ore reserves on the property at this time.

(c) There is attached hereto a copy of preliminary geological report of these claims including maps and sketches by Lewis P. Gaggini, marked Exhibit B.

(d) There are access roads to this property but roads will have to be built to most of the drill sites. The cost of this work will be included in the total drilling cost. The closest point of supply and residence is Slick Rock, approximatily 10 miles.

(e) The availability of manpower, materials, supplies, equipment, water and power is good and should present no major problem.

5. (a) The company wishes to explore for uranium bearing ores.

(b) Attached hereto as Exhibit C. is a map of the Company's property showing proposed drill holes. These holes will probably average 350 to 400 feet in depth. We plan on drilling a total of 6000 Feet of hole with approximately 25% of this footage being core-drilled. The purpose is to disclose the existence of mineralization in the so-called Morrison formation.

(c) The work will start within ten days of the approval of this loan application and will be completed within sixty days from the date of the exploration project contract.

(d) The work will be supervised by Alan M. Simpson, Grand Junction, Colorado and James E. Quigley, Eureka, Utah. Mr. Simpson is a graduate Mining Engineer and has various experience in the mining field, including six years with the U.S. Vanadium Co. as Engineer, Mill Foreman and Safety Director. Mr. Quigley is Vice President of Centennial Development Co. Inc. and is on retainer To Cherokee Utah as a Geologist.

6. (Following is an estimate of the costs for the proposed work:

6,000 Ft. of drilling @$4.00 Per ft.....$24,000.00
(This footage price includes all costs connected with the drilling such as road building, preparation of drill sites, engineering services including logging holes, mapping results etc.)

(a) Independent Contracts— The company proposes to have all of the work done by independent contractors upon the terms and conditions herein set forth.

(b) There will be no wage rates, salaries or fees other than those hereinbefore set forth.

(c) There will be no equipment purchased, no water, power or fuel, all of which will be supplied by the contractor.

(d) There will be no equipment rented or purchased.

(e) There will be no rehabilitation or repairs of buildings, fixtures, installations or movable operating equipment.

(f) There will be no buildings erected, no fixed improvements made under this project.

(g) There will be no repairs or maintenance expenses, analytical work, accounting, workmen's compensation, or employer's liability insurance, or payroll taxes, all being assumed and will be paid by the contractor.

(h) No allowance for contingencies to be required, in that all items will be covered by a financially responsible contractor.

7. (a) The company is prpared to furnish it's share of the cost of the proposed project.

(b) The company proposes to furnish it's share with money.

DEPARTMENT OF THE INTERIOR
Bureau Mineral Administration
RECEIVED
OCT 25 1954

C O P Y

MINING LEASE

THIS AGREEMENT, Make and entered into, in duplicate, as of the 7th day of May, 1954, between ALAN M. SIMPSON and JULIAN E. SIMPSON, Mining Company, of Grand Junction, Colorado; ARTHUR HAMILTON and OTIS PHILLIPS, JR., both of Dallas, Texas; JOHN W. HARRIS, W. D. McDAVID, REX PHILLIPS And GRAHAM B. LADD, all of San Antonio, Texas, Parties of the First Part, hereinafter called "Lessors" and D. C. ANDERSON of Salt Lake City, Utah, Party of the Second Part, hereinafter called "Lessee".

W I T N E S S E T H:

That the Lessors in consideration of the sum of Fifteen Hundred ($1500.00) Dollars advance royalty, receipt of which is hereby acknowledged and of the further royalties hereinafter reserved and the covenants and agreements hereinafter expressed and by Lessee to be kept and performed, hereby grant, demise and lease to Lessee the following described lode mining claims in the Little Cyp Mining District, County of San Miguel, State of Colorado, and amended location certificates thereof being duly recorded in the office of the County Recorder of said County as follows:

Name of Claim	Book	Page
Ft. Knox No. 1	225	932
" " No. 2	225	933
" " No. 6	225	934
" " No. 7	225	935
" " No. 8	225	936
" " No. 9	225	937
" " No. 10	225	938
" " No. 11	225	939
" " No. 14	225	940
" " No. 15	225	941
" " No. 16	225	942
" " No. 17	225	943
" " No. 18	225	944
" " No. 22	225	945
" " No. 23	225	946
" " No. 24	225	947
" " No. 25	225	948

EXCLUDING therefrom all conflicts with South Canyon

Faultless No. 1, New Moon and New Moon No. 1 and excluding such portion of said Mt. Moon claims within the area covered by the lease from the Atomic Energy Commission to Simpson Mining Company described as AT (05-1) - 66 - 10 under date of March 1, 1953.

Lessors warrant that they have fully performed all of the requirements of State and Federal laws relating to the location of mining claims upon the Public Domain other than surface discoveries of commercial uranium ores.

TO HAVE AND TO HOLD unto Lessee for a term of five (5) years from date hereof and thereafter so long as merchantable ores are mined and sold from any of said mining claims, unless sooner forfeited through the violations of any covenant required to be performed by the Lessee, with a right to surrender this Lease as hereinafter set forth.

In consideration of such lease, Lessee covenants and agrees with Lessors as follows, to-wit:

1. To enter upon and commence actual operations on said mining claims on or before June 1, 1954 and to perform exploration and development work suitable as assessment work upon said mining claims by expending not less than Two Thousand Dollars ($2000.00) on or before the 15th day of June, 1954 and to thereafter perform exploration and development work by expending a minimum of Two Thousand Dollars ($2000.00) per quarter during the term of this Lease. If commercial ores are discovered and are mined and shipped in the minimum value of Three Thousand Dollars ($3000.00) during any quarterly period, it is understood and agreed that such shipment shall supersede the requirement of exploration and development work provided for herein. If some ores are shipped during any quarterly period but less than Three Thousand Dollars ($3000.00) worth, exploration and development work during said period shall equal the difference between the amount of ore shipped and Three Thousand Dollars ($3000.00). The first three (3) months period shall commence July 1 1954.

C O P Y

2. To cause to be paid to Lessors a royalty of fifteen (15%) percent of the proceeds of ores mined and sold from any of said claims, including fifteen (15%) percent of any bonus payment paid by the Atomic Energy Commission, less however development and haulage allowances. All such ores shall be shipped in the joint names of Lessors and Lessee and payment of such royalties shall be made as follows: 3.75% to Simpson Mining Company, 304 Main Street, Grand Junction, Colorado and 11.25% to W. D. McDavid Trustee, 918 Milam Building, San Antonio, Texas, and Lessee shall be under no liability for the allocation thereof among said Lessors. Lessee shall be entitled to deduct from ore proceeds as above defined said Fifteen (15%) percent royalty until such deduction shall equal said advance royalty payment of Fifteen Hundred Dollars ($1500.00). After Lessee has been reimbursed for said advance royalty payment, further royalty payments shall be made as heretofore set forth. In the event Lessee is required through legal action on the part of the United States to return any money received from the sale of ores from said claims all royalty payments theretofore paid by Lessee to Lessors shall be returned to Lessee without interest.

3. To keep full and accurate records of all operations carried on hereunder, including drilling records, maps and assays, open to inspection and otherwise. To furnish Lessors with true copies of all drilling records, maps, assays and other relevant information with respect to Lessee's mining operations.

To make Lessors, or their agent, a written report, within thirty (30) days after the end of each quarterly period, showing gross value of ores shipped and cost of development work performed during such period.

4. To carry on all mining operations in strict conformity with all laws and regulations pertaining to such operations, to carry Workmen's Compensation Insurance, and to pay all State and Federal taxes and to save harmless Lessors from any and all liability arising out of the Lessee's mining operations hereunder.

5. To post notices at or near workings upon said mining claims reciting in substance that all mining operations are being carried on and conducted by Lessee, and that Lessors will not be liable for any claim or acts of any kind of character rising out of Lessee's work hereunder.

MUTUAL COVENANTS

IT IS MUTUALLY AGREED that Lessee shall have the right to surrender this lease at any time upon giving Lessors at least thirty (30) days written notice of such intention to surrender, sent by registered mail to Simpson Mining Company, Grand Junction, Colorado, and upon such surrender or cancellation as hereinafter provided, Lessee shall have the right within a reasonable time to remove all of his machinery, equipment and personal property from said claims, and, upon surrender or cancellation Lessee shall leave all excavations made by him in such condition that the removal of waste material should not be required in order to continue mining at such point or points.

It is understood and agreed that the Lessee shall have the right to form a corporation and upon said corporation being duly qualified to do business in the State of Colorado that said Lessee may assign his lease to said corporation and that upon said assignment being accepted by said corporation and a copy supplied to the Lessors that the Lessee will instantly be relieved of all liability hereunder and the Lessee corporation's liability accepted in lieu thereof. Said corporation, after it has assumed the liabilities under and pursuant to this agreement as herein provided shall have the right to sell, assign and transfer this lease in whole or in part at such terms and conditions as it may see fit. Provided, however, that before any such sale or transfer sahll become effective the Lessors shall be notified of the terms and conditions of said sale within a five (5) day period and said Lessors may register any legal protest they may have to said sale or assignment.

C
O
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Y

IT IS FINALLY AGREED that upon violation by Lessee of any of the covenants in the foregoing lease, the term of this lease shall, at the option of the Lessors, expire, and the same and said mining claims shall become forfeited to Lessors, and Lessors, or their agent, may thereupon enter upon said mining claims and dispossess all persons occupying the same, or, at the option of Lessors, Lessee and all persons found in occupation thereof, may be proceeded against as guilty of unlawful detainer, PROVIDED, however, that if said lease is forfeited upon the election of Lessors by reason of the failure of Lessee to perform the covenants thereof, Lessors shall give Lessee at least twenty (20) days notice in writing, by registered mail sent to Lessee at Salt Lake City, Utah. Notifying it of such failure to perform and setting out in said notice the substantial facts as to any such default or breach, and , upon failure or refusal by Lessee to cure and correct such default withing twenty (20) days from the receipt of such notice, Lessee shall surrender and deliver up the possession of all of said mining claims, and their rights under this lease shall thereupon cease and determine.

ALL of the provisions herein contained shall inure to and be binding upon the heirs and personal representatives of Lessors and Lessee and their lawful assings.

IN WITNESS WHEREOF the parties hereto have hereunto set their hands and seals the day and year first above written.

By_____
Partner of the Simpson Mining Co.

_____

_____

_____

_____

_____

_____
Lessors

_____
Lessee

A S S I G N M E N T

For and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, receipt of which is hereby acknowledged, the undersigned does hereby sell, assign and transfer to CHEROKEE UTAH URANIUM CORPORATION, a Utah corporation duly qualified to do business in the State of Colorado, all of my right, title and interest in and to that certain mining lease made and entered into as of the 7th day of May, 1954, by and between Alan M. Simpson and Julian E. Simpson, doing business as Simpson Mining Company of Grand Junction, Colorado; Arthur Hamilton and Otis Phillips of Dallas, Texas; John W. Harris, W. D. McDavid, Rex Phillips and Graham B. Ladd, of San Antonio, Texas, as Lessors, and D. C. Anderson of Salt Lake City, Utah as Lessee, covering the following described mining claims located in the Little Gyp Mining District, County of San Miguel, State of Colorado; amended location certificates thereof being duly recorded in the office of the County Recorder of said County as follows:

Name of Claim	Book	Page
Ft. Knox No. 1	225	932
Ft. Knox No. 2	225	933
Ft. Knox No. 6	225	934
Ft. Knox No. 7	225	935
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Ft. Knox No. 18	225	944
Ft. Knox No. 22	225	945
Ft. Knox No. 23	225	946
Ft. Knox No. 24	225	947
Ft. Knox No. 25	225	948

Excluding therefrom all conflicts with South Canyon Faultless No. 1, New Moon and New Moon No. 1 and excluding such portion of said Ft. Knox claims within the area covered by the lease from the Atomic Energy Commission to Simpson Mining Company described as AT (05-1) - 06 - 10 under date of March 1, 1953.

This Assignment is made within the terms and conditions of said Lease Agreement as therein provided for.

_____

STATE OF UTAH)
: ss.
COUNTY OF SALT LAKE)

The foregoing instrument was acknowledged before me this _____ day of July, 1954, by D. C. Anderson.

WITNESS my hand and official seal.

_____
Notary Public
Residing at Salt Lake City, Utah

My Commission Expires:

_____

EXHIBIT B

EXHIBIT 1

Defense Minerals Administration
RECEIVED
OCT 25 1954

June 1, 1954

INTRODUCTION

The following is a preliminary report on the geology and uranium possibilities of the Fort Knox claims leased by Simpson Mining Company to CHEROKEE URANIUM CORPORATION.

GENERAL COMMENTS

One of the most important features in appraising uranium properties is their location with respect to known mines. It should be noted that these claims are located in the "Uravan Mineral Belt" which has been defined by the United States Geological Survey as a belt of closely spaced uranium ore deposits of little larger than average size. They are a part of a larger group of claims staked by the Simpson Mining Company et al. as the **Little Gypsum Valley Claim Group** (see Figure 1).

The Simpson Mining Company was guided in the staking of Julian and Allan Simpson, both mining engineers with unusually long and successful careers in the uranium field.

HISTORY

High-grade uranium ore was packed out on burros in about 1920, from the Haymaker, Sunset and Honey Bee claims as shown on Figure 1. The United States Vanadium Company patented their claims in this area in 1938. About 1,000 tons of ore were mined from the Sunset claim during World War II. Exploration and development work in the area has been rather limited.

GEOLOGY

The only formation exposed on the claims is the Morrison Formation. The expected ore horizon in the Salt Wash member is rarely well exposed in this locality because it is usually covered with a mantle of talus and soil. When, however, the expected ore horizon is exposed, it is usually some sporadic mineralization. This fact leads to the conclusion that the area may possibly contain concealed ore deposits.

The structural geology on the claims is rather complex. This factor coupled with the paucity of exposures make the estimation of drilling depths rather difficult. But, as was pointed out above, no rocks younger than Morrison were observed. It is therefore assumed that the drilling depths will be on the average 400 feet which is the approximate thickness of the Brushy Basin and Salt Wash member of the Morrison Formation in this area.

Respectfully submitted,

GEO - ENGINEERING

By (s) Louis P. Gaggini

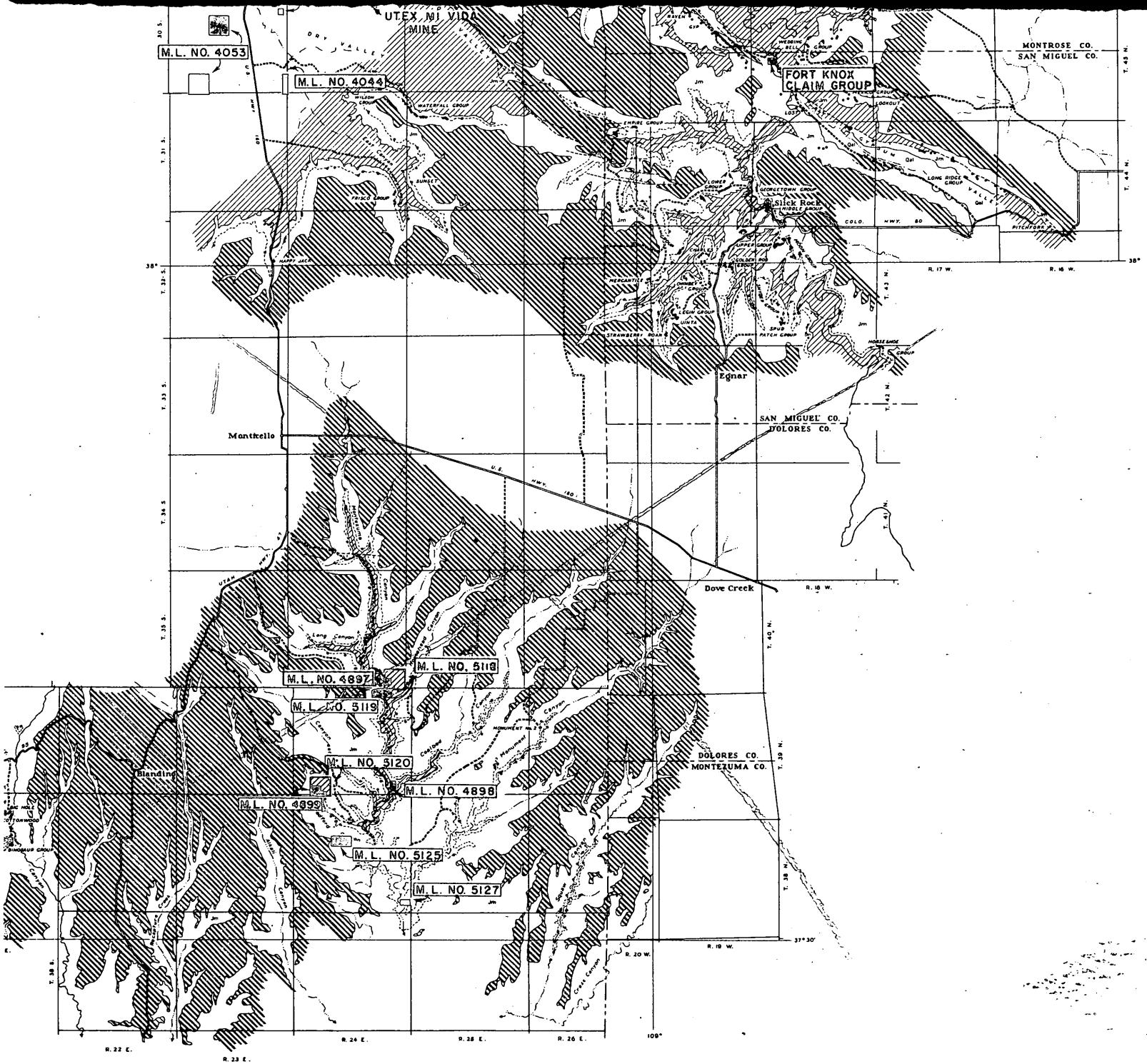
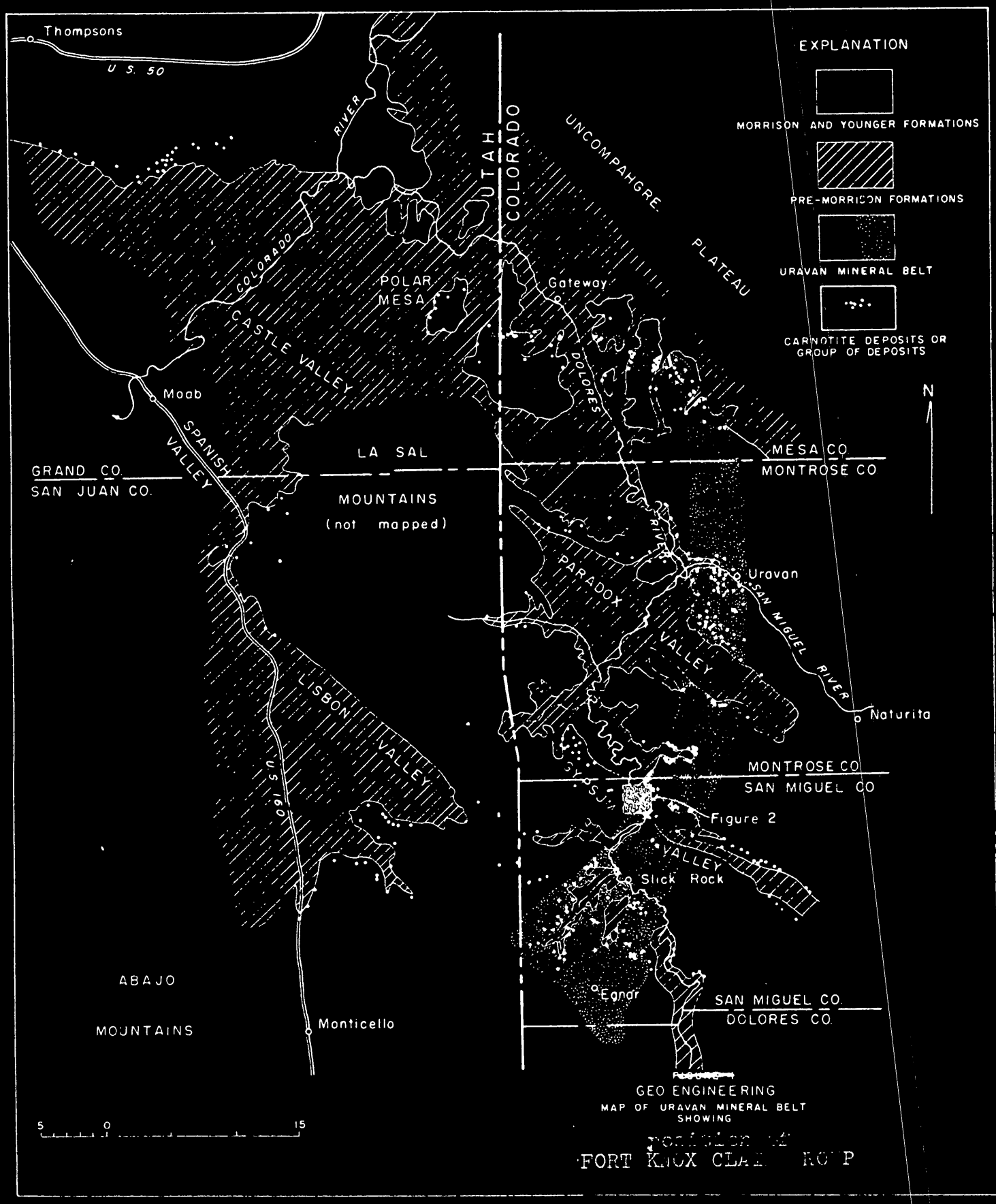

UTEX MI VIDA MINE
M.L. NO. 4053
M.L. NO. 4044
FORT KNOX CLAIM GROUP
MONTROSE CO.
SAN MIGUEL CO.
Slick Rock
Egnar
SAN MIGUEL CO.
DOLORES CO.
Monticello
Dove Creek
M.L. NO. 5118
M.L. NO. 4897
M.L. NO. 5119
M.L. NO. 5120
M.L. NO. 4898
M.L. NO. 4899
M.L. NO. 5125
M.L. NO. 5127
Blanding
DOLORES CO.
MONTEZUMA CO.
R. 17 W.
R. 16 W.
R. 18 W.
R. 19 W.
R. 20 W.
R. 22 E.
R. 23 E.
R. 24 E.
R. 25 E.
R. 26 E.
38°
37°30'
109°

EXHIBIT A

Exhibit B



GEO ENGINEERING
MAP OF URAVAN MINERAL BELT
SHOWING

FORT KNOX CLA[illegible] RO[illegible]P

Exhibit B

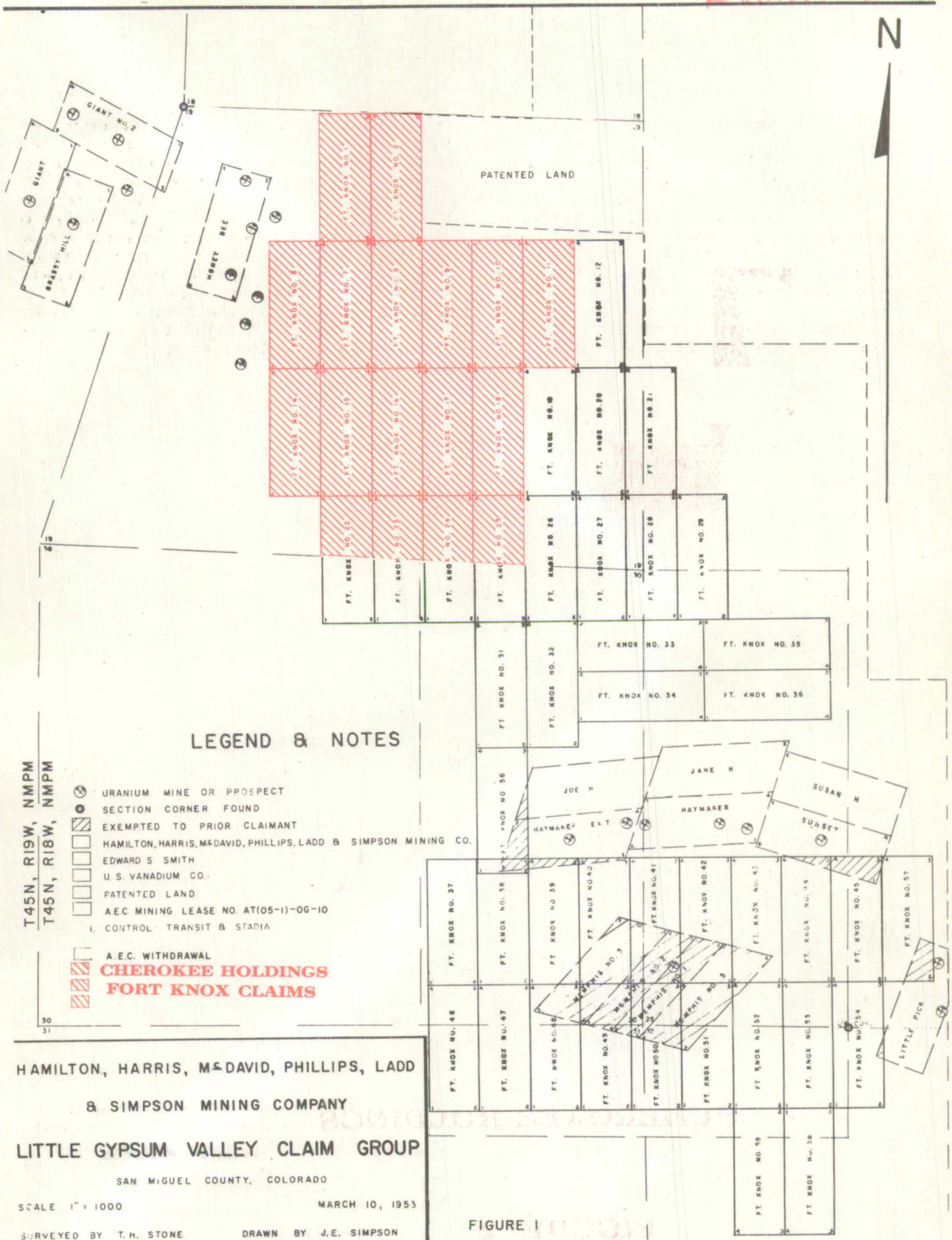


FIGURE I

methods. His mailing address is Box 2167, Casper, Wyoming.

BERNARD ABLON, Director, is co-owner of Ablon Poultry and Egg Co. and President of the Dallas Mining Associates both of Dallas, Texas. He is also President of the Biggs Oil and Gas Co. with principal offices in Little Rock, Arkansas. Mr. Ablon's address is 2116 Canton Street, Dallas, Texas.

Officers and Directors, security holding and options to acquire securities, are set forth elsewhere herein.

No Officer or Director except Mr. O'Connell, Mr. Anderson and Mr. Cameron has any direct or indirect material interests by security holdings, contracts, options or otherwise in the Issuer or in any assets proposed to be acquired or operated by the Issuer. Mr. O'Connell is a contract driller. He will submit bids on a competitive basis to do contract drilling for the Corporation. Mr. Anderson and Mr. Cameron are partners in Investors Service Co. of Salt Lake City, Utah and have contracted with the Corporation to operate, acquire, lease and sell properties of the Corporation for a fee of 5% of cost price of property purchased by the Corporation and 10% of net profit, after expenses, of property sold by the Corporation.

AIR MAIL

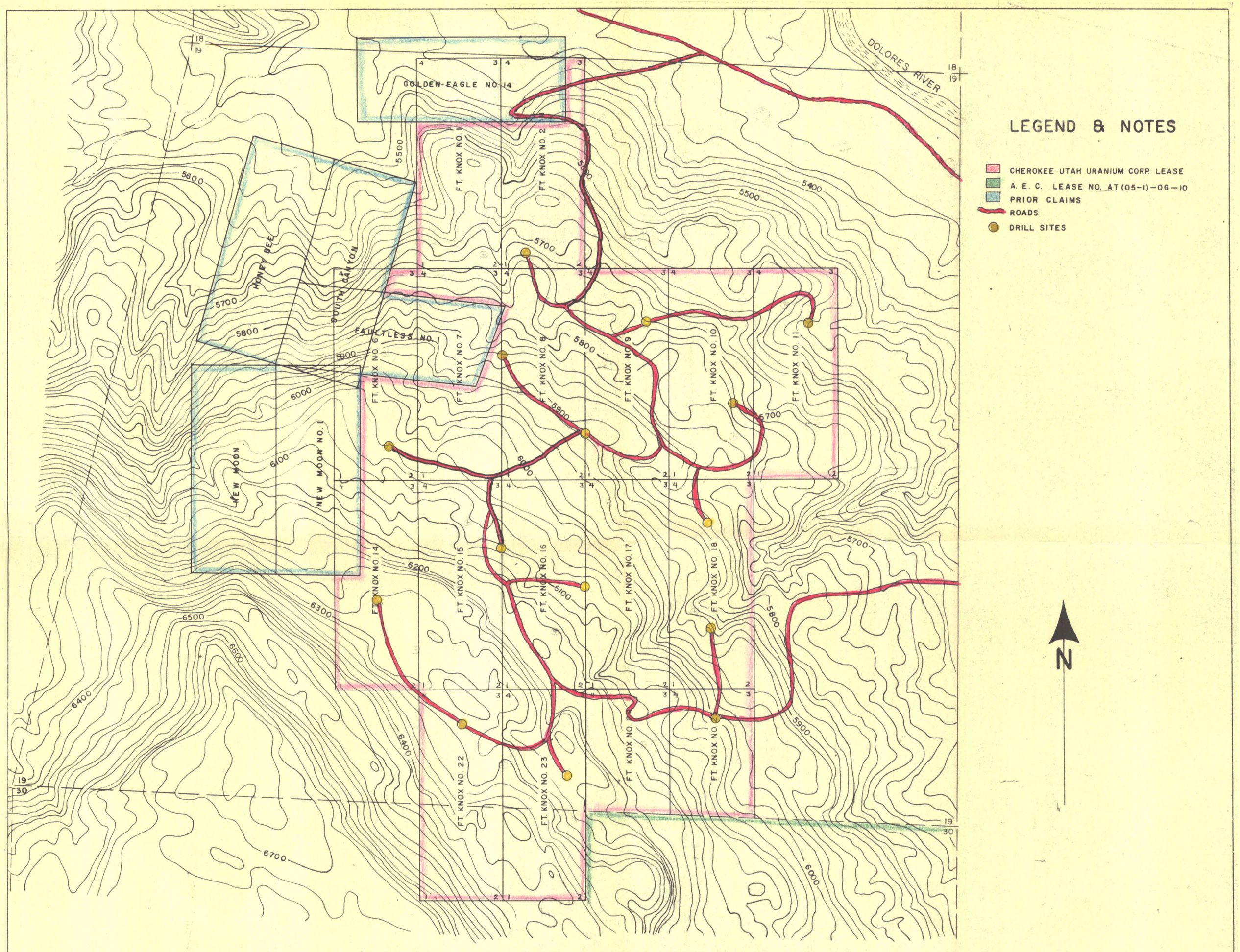
OFFICIAL BUSINESS

[illegible]
[illegible] Street
San Francisco 11, California

AIR MAIL

Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

AIR MAIL



CHEROKEE UTAH URANIUM CORP.

LITTLE GYPSUM VALLEY CLAIM GROUP

SAN MIGUEL COUNTY, COLORADO

SCALE: 1" = 500'

CONTOUR INTERVAL 20'

SEPTEMBER 3, 1954

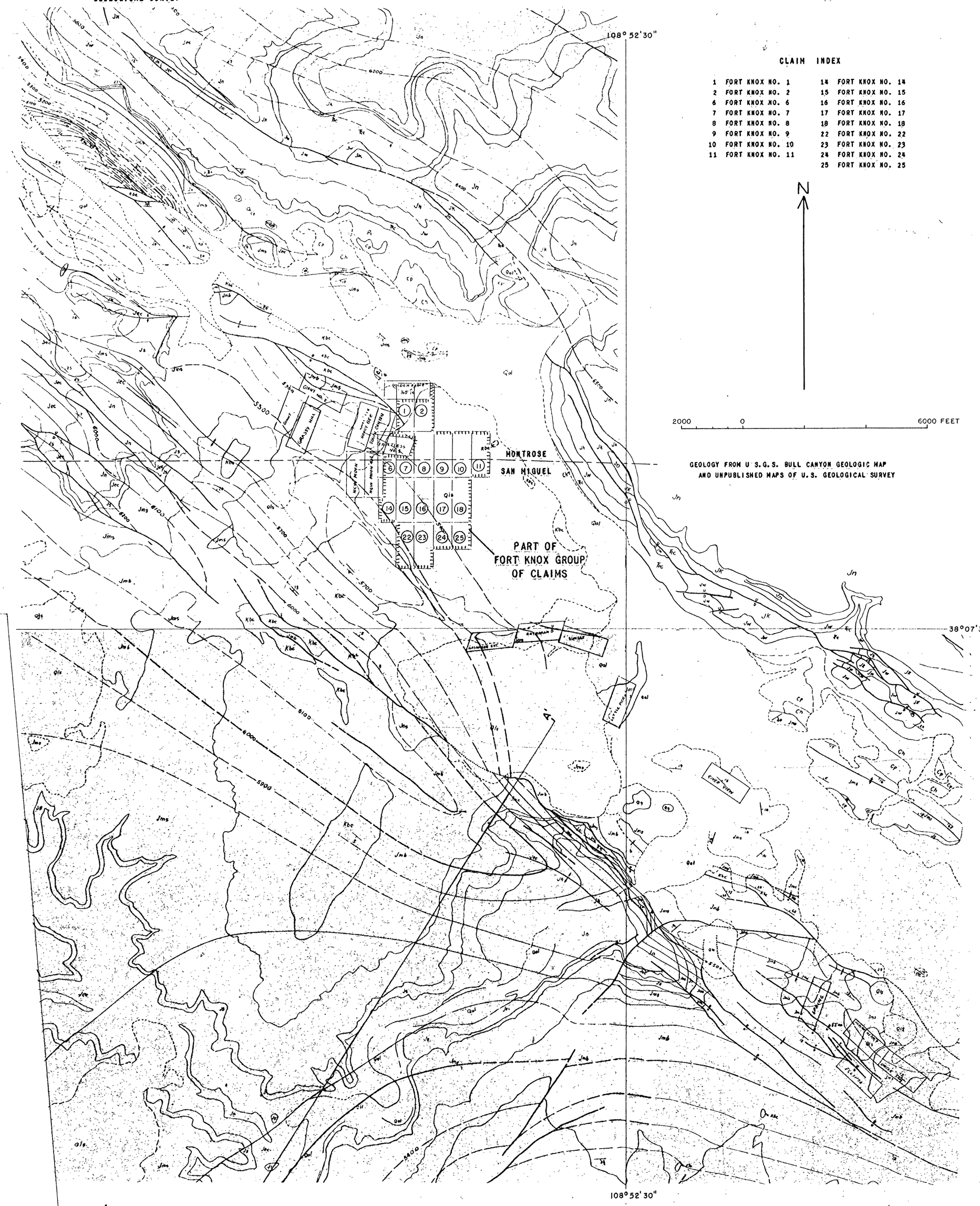
SURVEYED BY T. H. STONE

DRAWN BY B. E. HARTMANN

Exhibit 'C'

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3547



GEOLOGY FROM U.S.G.S. BULL CANYON GEOLOGIC MAP
AND UNPUBLISHED MAPS OF U.S. GEOLOGICAL SURVEY

CLAIM INDEX

1	FORT KNOX NO. 1	14	FORT KNOX NO. 14
2	FORT KNOX NO. 2	15	FORT KNOX NO. 15
6	FORT KNOX NO. 6	16	FORT KNOX NO. 16
7	FORT KNOX NO. 7	17	FORT KNOX NO. 17
8	FORT KNOX NO. 8	18	FORT KNOX NO. 18
9	FORT KNOX NO. 9	22	FORT KNOX NO. 22
10	FORT KNOX NO. 10	23	FORT KNOX NO. 23
11	FORT KNOX NO. 11	24	FORT KNOX NO. 24
		25	FORT KNOX NO. 25

EXPLANATION

QUATERNARY — PLEISTOCENE AND RECENT

- QAL — ALLUVIUM
- QLS — LANDSLIDE DEPOSITS

UNCONFORMITY

CRETACEOUS — UPPER CRETACEOUS

- Km — MANCOS SHALE
- Kd — DAKOTA SANDSTONE

UNCONFORMITY

CRETACEOUS — LOWER CRETACEOUS

- Kbc — BURRO CANYON FORMATION

JURASSIC — UPPER JURASSIC

- Jmb / Jms — MORRISON FORMATION
- Js — SUMMERVILLE FORMATION

JURASSIC — MIDDLE AND UPPER JURASSIC — SAN RAFAEL GROUP

- Jec — ENTRADA SANDSTONE AND CARMEL FORMATION UNDIVIDED

UNCONFORMITY

JURASSIC (?) — GLEN CANYON GROUP

- Jn — NAVAJO SANDSTONE
- Jk — KAYENTA FORMATION
- Jw — WINGATE SANDSTONE

TRIASSIC — UPPER TRIASSIC

- TRc — CHINLE FORMATION

UNCONFORMITY

CARBONIFEROUS — PENNSYLVANIAN

- Ch / Cp — HERMOSA FORMATION

CONTACT
(DASHED WHERE APPROXIMATELY LOCATED)

INDEFINITE CONTACT
(INCLUDES INFERRED CONTACTS AND INDEFINITE BOUNDARIES OF SURFICIAL DEPOSITS)

FAULT
(DASHED WHERE APPROXIMATELY LOCATED; DOTTED WHERE CONCEALED. U, UPTHROWN SIDE; D, DOWNTHROWN SIDE)

STRIKE AND DIP OF BEDS

HORIZONTAL BEDS

SYNCLINE

ANTICLINE

6000

STRUCTURE CONTOUR
(DRAWN ON TOP OF ENTRADA SANDSTONE; DASHED WHERE INFERRED OR APPROXIMATELY LOCATED. CONTOUR INTERVAL 100 FEET. DATUM IS MEAN SEA LEVEL)

Figure 2. GEOLOGIC MAP OF PART OF LITTLE GYPSUM VALLEY SHOWING LOCATION OF PART OF FORT KNOX GROUP OF CLAIMS, CHEROKEE-UTAH URANIUM CORP., GYPSUM VALLEY DISTRICT, MONTROSE AND SAN MIGUEL COUNTIES, COLORADO

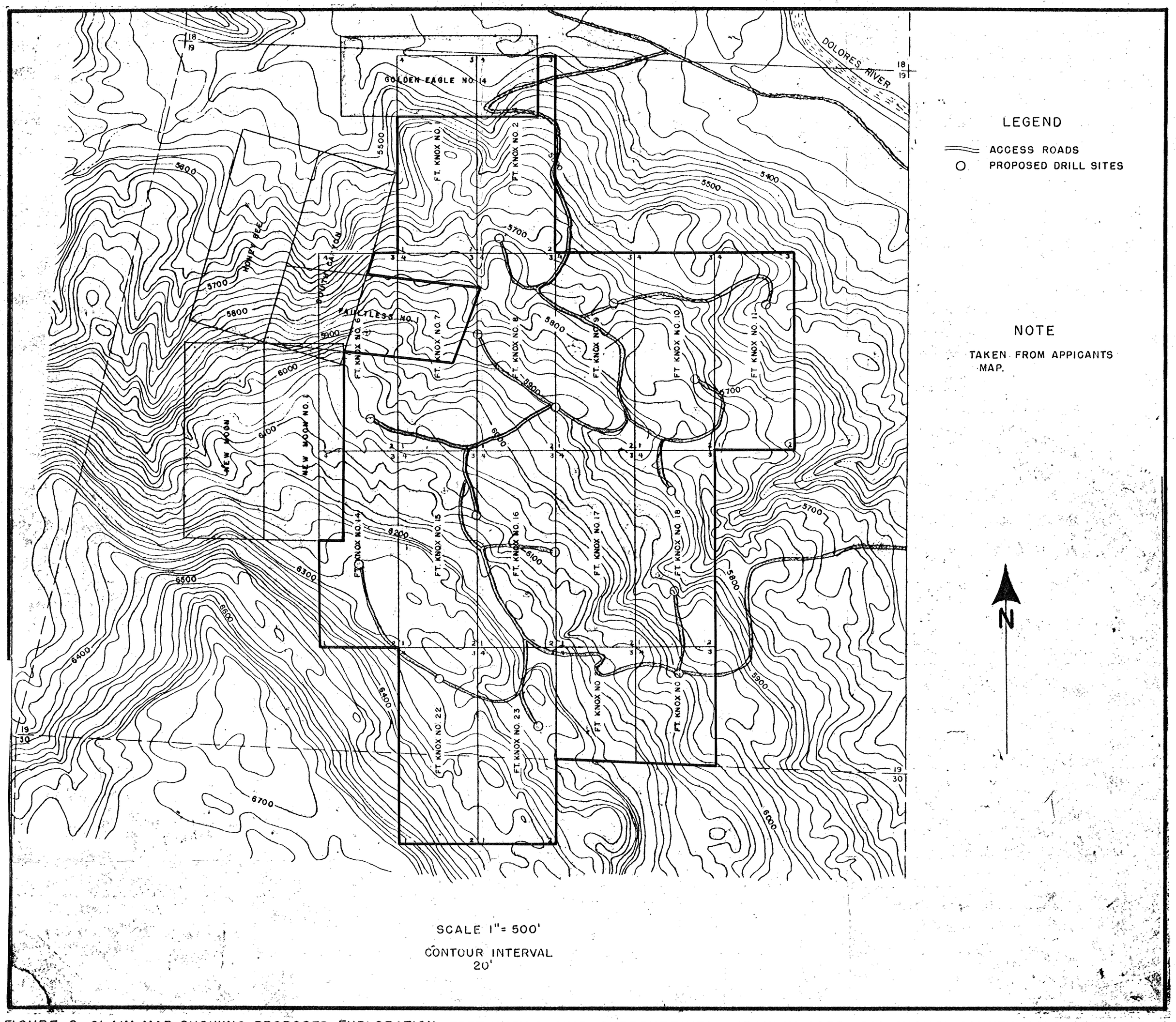


FIGURE 2 - CLAIM MAP SHOWING PROPOSED EXPLORATION, FORT KNOX CLAIMS, CHEROKEE UTAH URANIUM CORP., SAN MIGUEL COUNTY, COLO. (DMEA 3547)