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FILE COPY
Surname: Knouse

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

action taken 12-29-55
not mailed until 56.
carried as Dec. Business.

JAN 3 1956

Mr. Critchell Parsons, President
Rocky Mountain Uranium Corporation
301 Mercantile Commerce Building
Dallas 1, Texas

Re: Docket No. DMEA-3841 (Uranium)
Little Susan, A & G, and Green Dragon Mines
Emery County, Utah

Dear Mr. Parsons:

Your application for aid in an exploration project and other information available to us in Washington relating to the subject property have been reviewed.

Projects approved by this Agency 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 uranium ore has been produced and a small amount of uranium mineralization exists on your claims, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied. Such denial, however, is made without prejudice to your property. If future work at your property, or work being done on nearby property, reveals evidence which could materially alter this opinion, be assured we will be pleased to consider a new application.

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

Sincerely yours,

G. D. Mittendorf

Administrator

FLKnouse/ism 12-29-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700
Mr. Knouse
DMEA Field Team, Region III

Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Docket Copy
Kruger (elor)
Ellis

December 29, 1955

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-3841

Commodity: Uranium

Applicant: Rocky Mountain Uranium Corporation
301 Mercantile Commerce Building
Dallas 1, Texas

Property: Owned and leased -- consists of 67 lode claims as follows: Green Dragon Nos. 1 through 4, Lucky Strike Nos. 1 through 4, New Strike Nos. 1 through 3, New Strike Fraction No. 4, A & G Nos. 1 through 6, Lone Cedar No. 1, Pinnacle Nos. 1 & 2, Blue Bird Nos. 1 through 3, A A & G Nos. 1 through 5, New Jim Cabin Nos. 1, 2, & 3, Erma Nos. 1 & 2, Monarch Nos. 1 through 5, Last Chance Nos. 1 through 5, AAA Nos. 1 through 4, Fremont Nos. 2 through 8, Little Susan Nos. 1, 2, & 3, Cabin Nos. 1 & 2, Muddy Nos. 1, 2, 3, & 4, and Canyon Nos. 1, 2, & 3. The Fremont and Little Susan groups are situated principally in the northeast corner of T. 26 S., R. 8 E., S.L.B. & M. The Green Dragon group lies about 7 miles north of the Fremont group in the southeast part of T. 24 S., R. 8 E., S.L.B. & M., Emery County, Utah.

Date of Application: May 24, 1955

Amount of Application: $204,075.00

Work Proposed: 84,150 feet of wagon, rotary and diamond drilling, 3,000 feet of drifting and 25,000 feet of access road, to explore for uranium ore in the Moss Back member of the Chinle Formation on the Fremont, Little Susan and Green Dragon groups of claims.

Field Team Report: Transmitted Dec. 5, 1953

Uranium ore deposits in the San Rafael Swell are virtually restricted to the lowest topographic positions within the channels at the base of the Moss Back member of the Chinle formation. Many channels in the area contain concentrations of radioactive carbon along bedding planes occurring 15 to 30 feet or more above the bottom of the channels. However, experience in the San Rafael Swell area has shown that such

occurrences generally do not make ore deposits. The deposits in the area are restricted to the low points at the base of channels, and some replacement of the sandstone is essential before the presence of ore deposits can be predicted. In the vicinity of deposits, the red mudstone underlying and within the channel has apparently been altered to gray green. The significant ore deposits appear to be restricted to the channels which are the most continuous.

During the field examination, outcrops and mine workings on all three claim groups were examined in detail. Observations pertinent to each group of claims are discussed separately below.

Underground workings on the Little Susan property have been examined in detail. An exploratory drift on property between the Little Susan claims and the Fremont group was also examined. The drift is being driven on the Ryan and Maynard property under docket No. DMEA-3553. No significant mineralization has been encountered in 200 feet of drifting in the same channel explored on the Little Susan claims.

It appears from a study of all outcrops and mine workings in the area that only small masses of ore can be expected to occur in the Little Susan channel. The sedimentary structures, which have localized the small masses of mineralized material found to date, indicate that significant deposits are not likely to be discovered in this specific area. However, the drifting operations are at present continuing on the Ryan and Maynard property, and if significant ore deposits are discovered by this operation, it might be advisable to reconsider proposals on the Fremont Nos. 2 and 8 claims. However, it seems advisable at this time to confine the exploration of the Little Susan channel to the Ryan and Maynard property to further test the favorability of the channel.

Two adits and 6 channels were examined in detail on the Green Dragon group of claims. The channels, in most cases, show insignificant amounts of scouring, and appear discontinuous. The two adits were driven on the basis of radioactive carbon shown at the outcrop. No replacement of sandstone by uranium mineralization was observed on the Green Dragon claims. All mineralized material in the area is restricted to streaks of carbonaceous materials occurring along bedding planes stratigraphically above the channel base.

Although the Applicant reports that a total of over 800 tons of ore was shipped from the Green Dragon claims, the mine workings do not, at present, show promise for additional production.

Recommendation is made that the request for Government assistance in exploration on property of Rocky Mountain Uranium Corporation, be denied. Available information indicates that ore deposits of significance will not be found by exploration proposed on the Green Dragon, Little Susan, and Fremont groups of claims.

Comments of Commodity Specialists:

Mr. N. E. Nelson, U.S.G.S., December 15, 1955:

Concurs with Field Team and adds ... In view of the work now being done in the Little Susan channel on the Ryan and Maynard Group, between the Fremont and Little Susan groups, judgment of this application might be aided by knowing results of this work.

Mr. John E. Crawford, U.S.B.M., December 20, 1955:

Concurs with Field Team; however, he writes that Mr. Hosted of AEC recommends that action on the proposed work on the Little Susan and Fremont groups of claims be held in abeyance until completion of work on the Ryan and Maynard property.

Rare and Miscellaneous Metals Division - F. L. Knouse, December 28, 1955

Concurs with Field Team's recommendations but also recommends denial of application without prejudice to the property. Therefore, a letter was written to the Applicant denying the application without prejudice and advised that if the work now being done on nearby property and additional work that may be done on subject property indicates the possibility that a significant discovery may be made, this information may be submitted with a new application and it will be carefully considered.

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

12/8/55 gla

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

RECEIVED DEC - 7 1955

December 5, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 3841, (Uranium), Rocky Mountain Uranium Corporation, Green Dragon, Little Susan, and Fremont claims, Emery County, Utah

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

The field examiners believe that significant ore deposits will not be found by the proposed exploratory work. They recommend that the request for Government assistance by denied. We concur in this recommendation.

E. N. Harshman

E. N. Harshman
Acting Executive Officer, DMEA
Field Team, Region III

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
12-12-55
(date)

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

MINERAL DEPOSITS
DMEA
RECEIVED
NOV 30 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

RECEIVED
DEC - 7 1955

DMEA
Date Rec'd.

TRANSMITTED
BUREAU OF MINES
Denver, Colorado
DEC 5 1955

November 28, 1955

Memorandum

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

From: Stephen E. Wilson
J. William Keeler

Subject: Docket No. DMEA-3841 (Uranium), Rocky Mountain Uranium Corp., Green Dragon, Little Susan and Fremont claims, Emery County, Utah

Enclosed are the original and 10 copies of a joint engineering and geologic report pertaining to examination of the subject property for DMEA loan appraisal. The report was prepared by H. H. Reeve and C. E. Roach. Also included are copies of a separate section, Summary, Conclusions and Recommendations.

The applicant corporation has requested Government assistance totaling $204,975 to conduct an exploratory project consisting of 24,150 feet of diamond drilling, 25,000 feet of access road construction, and 3,000 feet of drifting. The proposed program is planned to search for uranium ores in the Moss Back member of the Chinle formation on the Green Dragon, Little Susan and Fremont groups of claims.

Uranium ore deposits in the San Rafael Swell area are virtually restricted to the lowest topographic positions within channels at the base of the Moss Back sandstone. Many channels contain radioactive carbon along bedding planes 15 to 20 feet above the bottom of the channels. However, such occurrences in the San Rafael Swell area generally do not contain sufficient uranium to make workable ore bodies.

Mineralization on the Green Dragon claims occurs mainly in a zone of carbonaceous material concentrated along bedding planes stratigraphically above the base of channels. The Little Susan channel, which traverses the Little Susan and Fremont claims, is presently being explored on the adjoining Ryan and Maynard property under docket No. DMEA-3841. No significant mineralization has been disclosed to date.

Reviewed by
DMEA OPERATING COMMITTEE
12-12-55
(date)

The mining engineer and geologist believe that present information indicates that significant ore deposits will not be found by exploratory work proposed by the applicant. Recommendation is made that the request for government assistance be denied. We concur in this recommendation.

Stephen R. Wilson
Stephen R. Wilson
Bureau of Mines

J. William Hasler
J. William Hasler
Geological Survey

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DEC - 7 1955

ROCKY MOUNTAIN URANIUM CORP.
EMERY COUNTY, UTAH
DMEA-3841
Uranium

TRANSMITTED
DEC 5 1955

Engineering and Geologic Report

By M. R. Hayes
Mining Engineer
Bureau of Mines

C. H. Roach
Geologist
Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
12-12-55
(date)

RECEIVED
DEC - 7 1955

ROCKY MOUNTAIN URANIUM CORP.
EMERY COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Rocky Mountain Uranium Corp., Emery County, Utah
Fig. 2 Geologic map, with locations of Fremont and Little Susan claims
Fig. 3 Geologic map, with locations of Green Dragon claims.

INTRODUCTION

Rocky Mountain Uranium Corp., owner and lessee of uranium properties in Emery County, Utah, applied May 24, 1955, for Government aid in an exploratory project under docket No. DMA-3641. The proposed program consists of 84,150 feet of drilling, 25,000 feet of access-road construction, and 3,000 feet of drifting, to explore for uranium ores in the Moss Back member of the Chinle formation on the Fremont, Little Susan and Green Dragon groups of claims. The total estimated cost is $204,075.

A field examination of the property was made August 23 and 24, 1955, by C. H. Roach, Geological Survey, and M. R. Rouse, Bureau of Mines, to determine the feasibility of the proposed exploratory program and to appraise the estimated costs and engineering aspects of the job. The field examiners were escorted over the property by Clay Jensen, watchman for Rocky Mountain Uranium Corp.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property, consisting of Fremont, Little Susan and Green Dragon groups of claims, is located near the Muddy River, in the southern part of the San Rafael Swell, southwestern Emery County, Utah, approximately 90 airline miles southwesterly from Green River, Utah. The Fremont and Little Susan groups are situated approximately 1½ miles northwest and across the river from the Delta mine, largely in the northeast

corner of T. 24 S., R. 8 E., S.L.B. and M. The Green Dragon group lies about 7 miles north of the Fremont group in the southeast part of T. 24 S., R. 8 E., S.L.B. and M.

The property may be reached by traveling 37 miles south from Green River on Utah Highway 24 to Temple Mountain road, thence westerly on Temple Mountain road 33 miles to the Green Dragon group, or 36 miles to the Fremont and Little Susan groups.

The topography of the area in which the claims are situated is composed largely of cliffs and canyons common to the Colorado Plateau. Vegetation, chiefly desert plants, is sparse. The climate is semiarid. Summers are hot and dry. However, flash floods, caused by cloudbursts, frequently occur in late summer and early fall. Winters are generally mild, with infrequent subzero temperatures. Rainfall is moderate.

HISTORY AND PRODUCTION

The property, comprised of 67 lode mining claims, was located in 1953 and 1954 and was acquired soon after location by the Rocky Mountain Uranium Corp. This corporation conducted an exploratory drifting and drilling program on the most likely mineralized showings exposed on the property. The Green Dragon group, A & G No. 1 claim produced 497 tons of ore averaging 0.285 percent U_3O_8, and the Green Dragon No. 3 claim produced 44 tons of ore averaging 0.33 percent U_3O_8 to March 31, 1955. The Susan No. 1 claim of the Little Susan group has a production record of 74 tons of ore averaging 0.43 percent U_3O_8 to March 31, 1955.

No work of any kind was in progress on the property at the time of field examination.

OWNERSHIP AND EXTENT

Rocky Mountain Uranium Corp., 301 Mercantile Commerce Building, Dallas 1, Texas, is a Delaware corporation. Officers of the company are as follows:

Critchell Parsons, President, Dallas, Texas

Gene W. Hewett, Vice President and Treasurer, Dallas, Texas

Norman R. Lewis, Vice President, Dallas, Texas

Clarence J. Spangler, Secretary and Assistant Treasurer

M. J. Marshall, Assistant Secretary.

The property consists of 46 unpatented lode mining claims comprising the Green Dragon group, 7 lode mining claims comprising the Fremont group, and 12 lode mining claims comprising the Little Susan group.

The Rocky Mountain Uranium Corp. owns a half interest in the Green Dragon group and is presently purchasing the other half interest under contract; holds a lease on the Fremont group; owns a half interest in a lease on the Susan Nos. 1, 2 and 3 claims of the Little Susan group, and is presently purchasing under contract the other half interest in the lease; and owns a half interest in the Cabin Nos. 1 and 2, Muddy Nos. 1, 2, 3 and 4, and Canyon Nos. 1, 2 and 3 claims of the Little Susan group, and is presently purchasing under contract the remaining half interest in these claims.

The location notices for Fremont, Little Susan and Green Dragon Groups of claims are recorded in the office of the County Recorder at Castle Dale, Emery County, Utah, as follows:

Seven Dragon Group

Name of Claim	Date Located	Book	Page
Seven Dragon No. 1	12/2/53	J-14	411
" " " 2	"	"	412
" " " 3	"	"	413
" " " 4	"	"	410
Lucky Strike No. 1	1/28/54	J-16	9
" " " 1 Amended	"	"	211
" " " 2	"	"	10
" " " 2 Amended	"	"	212
" " " 3	"	"	11
" " " 3 Amended	"	"	213
" " " 4	2/21/54	J-30	140
New Strike No. 1	1/28/54	J-16	12
" " " 1 Amended	"	J-18	504
" " " 2	"	J-16	13
" " " 2 Amended	"	J-18	505
" " " 3	"	J-16	14
" " " 3 Amended	"	J-18	506
" " " 3 Amended	3/10/54	J-30	141
New Strike Fraction No. 4	3/21/54	"	142
A & G No. 1	2/3/54	J-16	94
" " 2	"	"	95
" " 3	"	"	96
" " 4	"	"	97
" " 5	"	"	98
" " 6	"	"	99
Lone Cedar No. 1	2/5/54	J-16	289
Pinnacle No. 1	2/8/54	"	210
" " 2	"	"	109
Blue Bird No. 1	1/29/54	"	15
" " " 1 Amended	"	"	214
" " " 1 Amended	"	J-30	132
" " " 2	"	J-16	16
" " " 2 Amended	"	"	215
" " " 2 Amended	"	J-30	133
" " " 3	"	J-16	17
" " " 3 Amended	"	"	216
" " " 3 Amended	"	J-30	134
A A & O No. 1	2/2/54	J-16	180
" " 2	"	"	181
" " 3	"	"	182
" " 4	"	"	183
" " 5	"	"	184
New Jim	3/5/54	J-19	536
Cabin No. 2	—	—	—
" " 3	—	—	—

Name of Claim	Date Located	Book	Page
Erma No. 1	2/2/54	J-17	36
" " 11	2/2/54	"	37
Monarch No. 1	2/2/54	J-16	185
" " 2	"	"	186
" " 3	"	"	187
" " 4	"	"	188
" " 5	"	"	189
Lost Chance No. 1	7/23/54	J-30	135
" " " 2	"	"	136
" " " 3	"	"	137
" " " 4	"	"	138
" " " 5	"	"	139
AJA No. 1	7/24/54	J-31	184
" " 2	"	"	185
" " 3	"	"	186
" " 4	"	"	187

Fremont Group

Fremont No. 2	12/8/53	J-14	419
" " 2	12/12/54	J-72	450
" " 2 Amended	"	"	448
" " 3	11/29/53	J-14	418
" " 3	12/12/54	J-72	451
" " 3 Amended	"	"	446
" " 4	12/8/53	J-14	417
" " 4	12/12/54	J-72	452
" " 4 Amended	"	"	447
" " 5	12/8/53	J-14	416
" " 5	12/12/54	J-72	453
" " 5 Amended	"	"	448
" " 6	12/8/53	J-14	415
" " 6	12/12/54	J-72	454
" " 6 Amended	"	"	449
" " 7	—	—	—
" " 8	—	—	—

Little Susan Group

Little Susan	2/10/54	J-16	493
Susan No. 1 (Relocated)	11/12/54	J-62	454
Little Susan	2/10/54	J-16	494
Susan No. 2 (Relocated)	11/12/54	J-62	455
Little Susan	2/10/54	J-16	495
Susan No. 3 (Relocated)	11/12/54	J-62	456

Name of Claim	Date Located	Book	Page
Sabin No. 1	3/5/54	J-19	335
" " 1	4/25/54	J-25	341
" " 1	7/30/54	J-33	336
" " 1	11/12/54	J-42	471
" " 2	7/30/54	J-33	335
" " 2	11/12/54	J-42	472
Muddy No. 1	3/20/54	J-20	182
" " 1	11/12/54	J-42	464
" " 2	3/20/54	J-20	183
" " 2	11/12/54	J-42	465
" " 3	3/20/54	J-20	184
" " 3	11/12/54	J-42	466
" " 4	3/20/54	J-20	185
" " 4	11/12/54	J-42	467
Congress No. 1	3/20/54	J-20	187
" " 1	11/12/54	J-42	468
" " 2	3/20/54	J-20	188
" " 2	11/12/54	J-42	469
" " 3	3/20/54	J-20	189
" " 3	11/12/54	J-42	470

GEOLOGY AND ORE DEPOSITS

Properties of Rocky Mountain Uranium Corp. are located on the southwestern flank of the San Rafael Swell, a large anticlinal structure. Numerous faults with small vertical displacement are not uncommon in the area. A few diabase dikes occur in the area, but do not appear to be related in any way to the ore deposits. The sedimentary rocks exposed in the area dip gently to the southwest, and are mainly of continental origin.

The sediments exposed in the area are Triassic and Jurassic in age. The Triassic Moenkopi Formation is the oldest rock unit and is composed largely of thin, evenly bedded siltstone and fine-grained sandstone, red or red-brown in color. The Moenkopi is thought to be about 700 feet thick.

The Chinle formation of Triassic age consists of three members, the Monitor Butte being the lowest member, and is overlain by the Moss Back member and the Church Rock member, successively. Regionally, the Monitor Butte is 75-100 feet thick, but considerable local variations in thickness occur as the result of stream channel erosion before and during Moss Back time. The Monitor Butte consists of irregularly bedded siltstone, mudstone, and minor amounts of fine-grained sandstone. This unit has a distinctive purple-white color.

The Moss Back member of the Chinle formation unconformably overlies the Monitor Butte member. The contact between the two is irregular and is characterized, in places, by the presence of stream channel scours, where the Moss Back streams cut into the underlying Monitor Butte. These features are simply termed "channels," and their continuity varies considerably. Drilling experience in the San Rafael Swell has shown that some channels cannot be projected even for short distances immediately behind the outcrop, whereas others can successfully be traced for several thousands of feet. The Moss Back averages about 50 feet in thickness, but varies considerably in the vicinity of channels. The Moss Back consists of irregularly bedded, fine- to coarse-grained sandstone, quartz-limestone pebble conglomerate, and varying amounts of red and green mudstone. Carbonaceous materials are abundant locally, particularly in the upper two-thirds of the unit.

The Church Rock member of the Chinle formation unconformably overlies the Moss Back. The contact between the two members shows an interfingering relationship. The Church Rock consists of siltstone and fine-grained sandstone, red to purple in color.

The Triassic Wingate sandstone overlies the Chinle formation and is approximately 300 feet thick in the area. It is composed mostly of fine- to medium-grained sandstone, light brown to buff in color.

Uranium ore deposits in the San Rafael Swell are virtually restricted to the lowest topographic positions within the channels at the base of the Moss Back member of the Chinle formation. Many channels in the area contain concentrations of radioactive carbon along bedding planes occurring 15 to 30 feet or more above the bottom of the channels. However, experience in the San Rafael Swell area has shown that such occurrences generally do not make ore deposits. The deposits in the area are restricted to the low points at the base of channels, and some replacement of the sandstone is essential before the presence of ore deposits can be predicted. In the vicinity of deposits, the red sandstone underlying and within the channel has apparently been altered to gray green. The significant ore deposits appear to be restricted to the channels which are the most continuous.

During the field examination, outcrops and mine workings on all three claim groups were examined in detail. Observations pertinent to each group of claims are discussed separately below.

Underground workings on the Little Susan property have been examined in detail (fig. 2). An exploratory drift on property between the Little Susan claims and the Fremont group was also examined. The drift is being driven on the Ryan and Maynard property under docket No. SMRA-3553. No significant mineralization has been encountered in 200 feet of drifting in the same channel explored on the Little Susan claims.

It appears from a study of all outcrops and mine workings in the area that only small masses of ore can be expected to occur in the Little Susan channel. The sedimentary structures, which have localized the small masses of mineralized material found to date, indicate that significant deposits are not likely to be discovered in this specific area. However, the drifting operations are at present continuing on the Ryan and Maynard property, and if significant ore deposits are discovered by this operation, it might be advisable to reconsider prospects on the Fremont Nos. 2 and 5 claims. However, it seems advisable at this time to confine the exploration of the Little Susan channel to the Ryan and Maynard property to further test the favorability of the channel.

Two adits and 4 channels were examined in detail on the Green Dragon group of claims (fig. 3). The channels, in most cases, show insignificant amounts of scouring, and appear discontinuous. The two adits were driven on the basis of radioactive carbon shown at the

outcrop. No replacement of sandstone by uranium mineralization was observed on the Green Dragon claims. All mineralized material in the area is restricted to streaks of carbonaceous materials occurring along bedding planes stratigraphically above the channel base.

Although the applicant reports that a total of over 800 tons of ore was shipped from the Green Dragon claims, the mine workings do not, at present, show promise for additional production. End mark The small lenticular masses of sandstone in the workings suggest that any additional masses of ore which might be discovered may contain not more than about 500 tons.

MINABLE ORE RESERVES.

There are no known minable ore reserves on the property

PRESENT STATUS

The property is served by approximately 25,000 feet of access roads.

Two camps have been established by the company, one on the Green Dragon group, and the other on the Little Susan group. The Green Dragon camp contains three bunkhouses, a boardinghouse, a changehouse, a small repair shop with blacksmith equipment, a warehouse, a butane-electric power plant, a powder magazine, and gasoline, oil, butane and water-storage tanks. The Little Susan camp serves both the Fremont and Little Susan groups. Its facilities consist of two bunkhouses, a boardinghouse, a changehouse, a butane-electric power plant, a powder magazine, and gasoline, oil, butane and water-storage tanks.

Several adits have been driven on mineralized shearings on all three groups of claims. The two principal adits are the same from which ore was produced on the A & S No. 1 claim of the Green Dragon group and the Susan No. 1 of the Little Susan group. More than 1,000 feet of drifting and crosscutting has been accomplished in the underground workings. A number of holes have been drilled on the Green Dragon group to test areas beyond favorable rim mineralization.

Mine labor is available at Green River and Price, Utah.

Supplies and equipment for mining can usually be obtained at Moab or Price, Utah.

Water is hauled from Hankerville, Utah, a distance of about 35 miles.

Airplane landing strips have been constructed at the Delta mine and at the Ryan and Maynard property, both of which are less than 2 miles from the Fremont and Little Susan groups.

PROJECT PROPOSALS

Green Dragon Group

Phase I

It is proposed to wagon drill 225 holes to an average depth of 150 feet, for a total of 33,750 feet, to explore 15 of the most favorable uranium channels on the property. Drilling is proposed only in areas that are behind the rim, and on the trend of channels exposed at the outcrop.

Fifteen thousand feet of new access roads will be constructed to reach the above drill sites.

Phase II

If sufficient uranium mineralization is found to justify it, an additional 14,000 feet of wagon drilling and 2,000 feet of diamond drilling will be done to further explore the mineralized areas.

The phase II drilling will require an additional 4,000 feet of access-road construction.

Little Susan Group

Phase I

It is proposed to drift 1,500 feet along the axis or trough of the stream channel in which the workings of the Susan No. 2 claim are located, to explore for uranium ore.

Phase II

If ore is encountered in phase I, an additional 1,500 feet of crosscutting and drifting will be done to further delineate the ore bodies.

Phase III

If only minor mineralization is encountered in phase I, the following plan will be substituted for phase II: diamond drill 15 holes horizontally or inclined slightly upward, to an average depth of 300 feet, at 100-foot intervals, alternating on opposite sides of the main adit.

Proposed Program

Phase I

It is proposed to wagon drill 150 holes to an average depth of 150 feet, for a total of 22,500 feet, to explore the zones behind the rim, and the trend of channels exposed at the outcrop.

Three thousand feet of new access roads will be constructed to reach the above drill sites.

Phase II

If sufficient uranium mineralization is found to justify it, 5,400 feet of rotary drilling will be done to further explore the mineralized areas as follows: drill 6 vertical holes and 12 inclined holes to an average depth of 300 feet, the locations of the holes to be determined from information obtained in phase I.

The phase II drilling will require an additional 3,000 feet of access-road construction.

General Regulations

All drill holes shall be logged geologically and probed radiometrically, and the record of such logging and probing, together with certified copies of all assay certificates, shall be submitted with the operator's monthly progress reports.

All drill core and cuttings shall be saved and split, one-half retained by the operator for study and analysis, and one-half properly stored for the use of the Government.

The location, direction, and extent of all project work shall be subject to the approval of the Government.

ESTIMATED COST OF PROJECT PROPOSALS

It is estimated that the time required to complete the project is as follows: Green Dragon group, 4 months; Little Susan group, 6 months; and Fremont group, 2 months. Since the drilling on the Green Dragon and Fremont groups will be done simultaneously with the drifting in the Little Susan group, the entire program will be completed in 6 months.

The examining engineer has revised the cost estimates as presented by the applicant. It is believed this revision is more logical.

Green Dragon Group

Independent contracts -		
Wagon drilling - 49,750 feet at $1.00 per foot	$49,750.00	
Diamond drilling - 2,000 feet at $4.00 per feet	8,000.00	
Bulldozing access road - 19,000 feet (760 hours at $12.50 an hour)	9,500.00	$67,250.00
Supervision and technical services - 4 months at $500 per month		2,000.00
Miscellaneous (assaying) - 200 samples at $4.00 each		800.00
Total, Green Dragon group		$70,050.00

Little Susan Group

Independent contracts -

Drifting and crosscutting -
3,000 feet at $20.00 per foot ——— $60,000.00

Diamond drilling -
4,500 feet at $4.00 per foot ——— 18,000.00 $78,000.00

Supervision and technical services -
6 months at $500.00 per month ——— 3,000.00

Miscellaneous (assaying) -
200 samples at $4.00 each ——— 800.00

Total, Little Susan group ——— $81,800.00

Fremont Group

Independent contracts -

Wagon drilling,-
22,500 feet at $1.00 per foot ——— $22,500.00

Rotary drilling -
5,400 feet at $2.50 per foot ——— 13,500.00

Bulldozing access road -
6,000 feet (240 hours at $12.50
per hour) ——— 3,000.00 $39,000.00

Supervision and technical services -
2 months at $500.00 per month ——— 1,000.00

Miscellaneous (assaying) -
100 samples at $4.00 each ——— 400.00

Total, Fremont group ——— $40,400.00

Summary of Costs

Green Dragon group ——— $ 70,050.00

Little Susan group ——— 81,800.00

Fremont group ——— 40,400.00

Total estimated cost of project ——— $192,250.00

Government participation at 75 percent ——— $144,187.50

PROPOSED FINANCING

The applicant corporation reports it is prepared to invest $44,062.50 in the proposed exploratory project, which is 25 percent of the estimated cost of $192,250.00, in accordance with the regulations on Government participation, as stated in Section 7, DMA Order 1 Amended.

CONCLUSIONS AND RECOMMENDATIONS

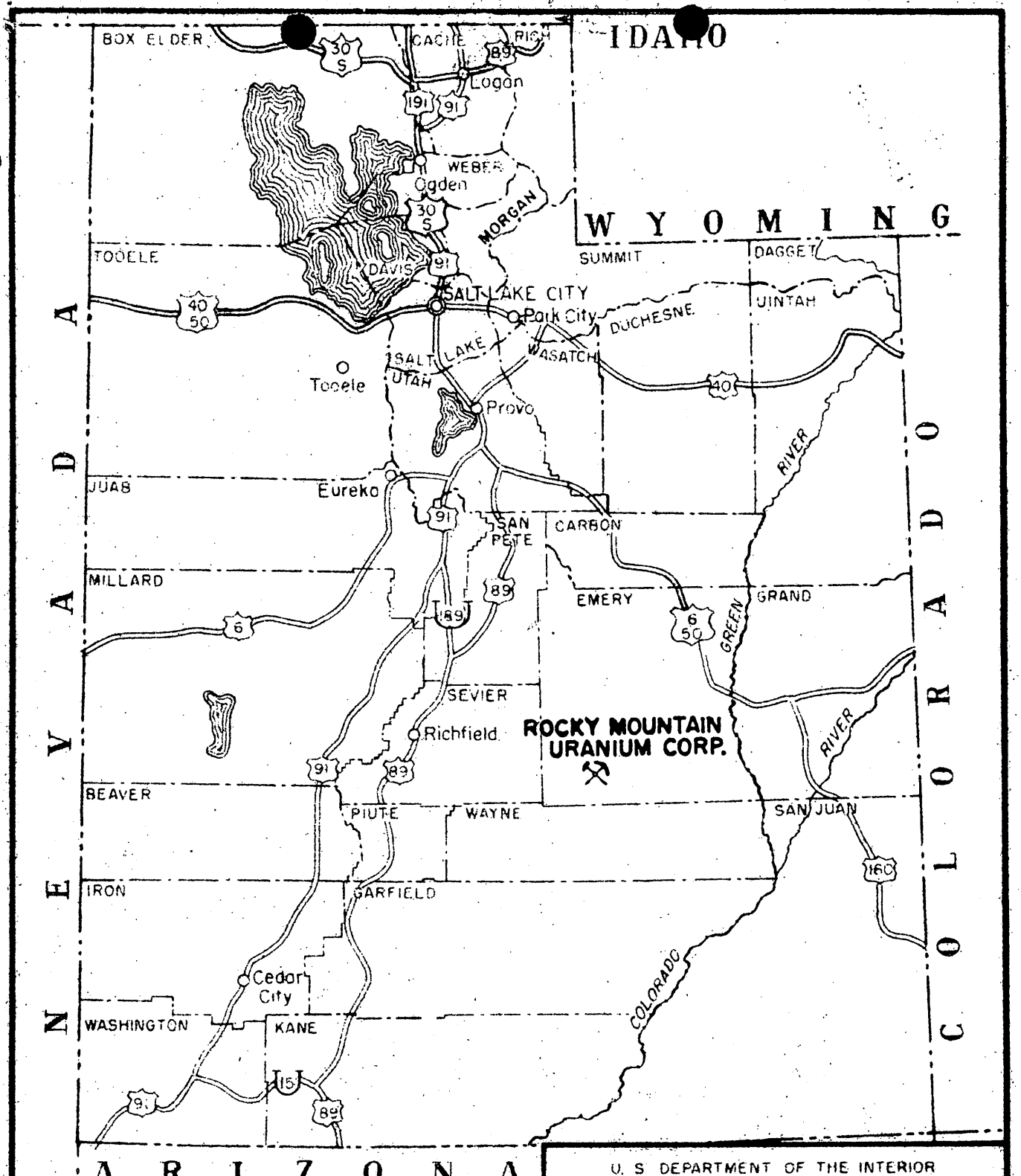
The applicant has proposed exploration consisting of drilling and underground work in searching for uranium ores on the Green Dragon, Little Susan and Fremont groups of claims, Emery County, Utah.

The most favorable ore-bearing horizon, the Navajo Rock sandstone, outcrops for a considerable distance along rims on the property. Numerous stopes and stream channels are exposed. The Little Susan channel traverses the Little Susan and Fremont groups of claims, in addition to the Ryan and Maynard property. Government assistance on this latter property was granted under docket No. DMA-3533. Exploration to date has disclosed no mineralization of significance.

Mineralization on the Green Dragon claims appears to be restricted mainly to a zone of carbonaceous materials concentrated along bedding planes stratigraphically above the base of channels. The channels appear to be discontinuous and are not believed to be favorable for occurrence of significant ore deposits.

Recommendation is made that the request for Government assistance in exploration on property of Rocky Mountain Uranium Corp. be denied.

Available information indicates that ore deposits of significance will not be found by exploration proposed on the Green Dragon, Little Susan and Fremont groups of claims.



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3841

Location Map

ROCKY MOUNTAIN URANIUM CORP.

EMERY COUNTY, UTAH

ENGINEER *M. H. HOWES*	DATE: OCT. 21, 1955
TRACED OCT., 1955; BY: A.P.T.S.	1900 - 356 - E
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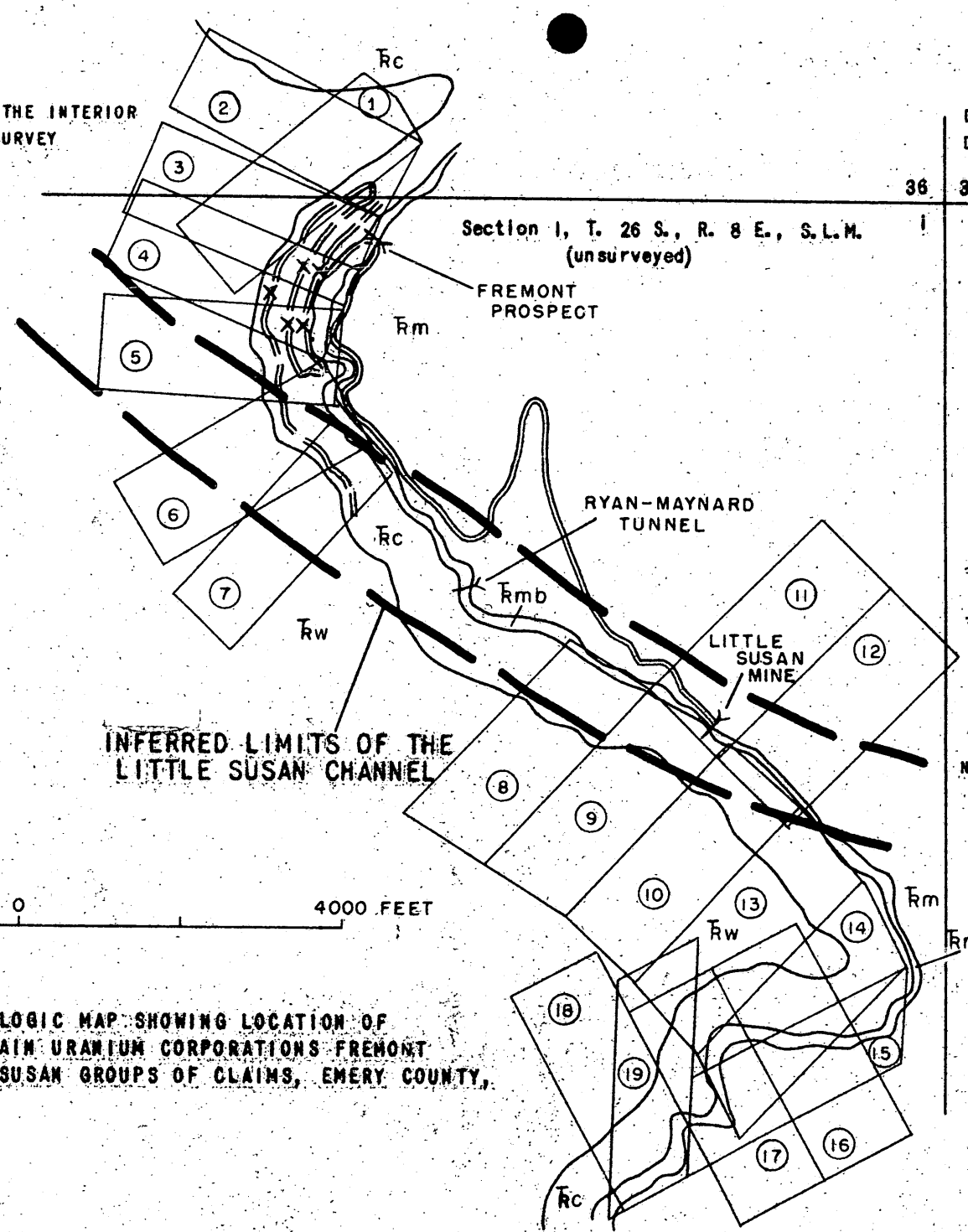
U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3841 NOVEMBER 1955



CLAIM INDEX

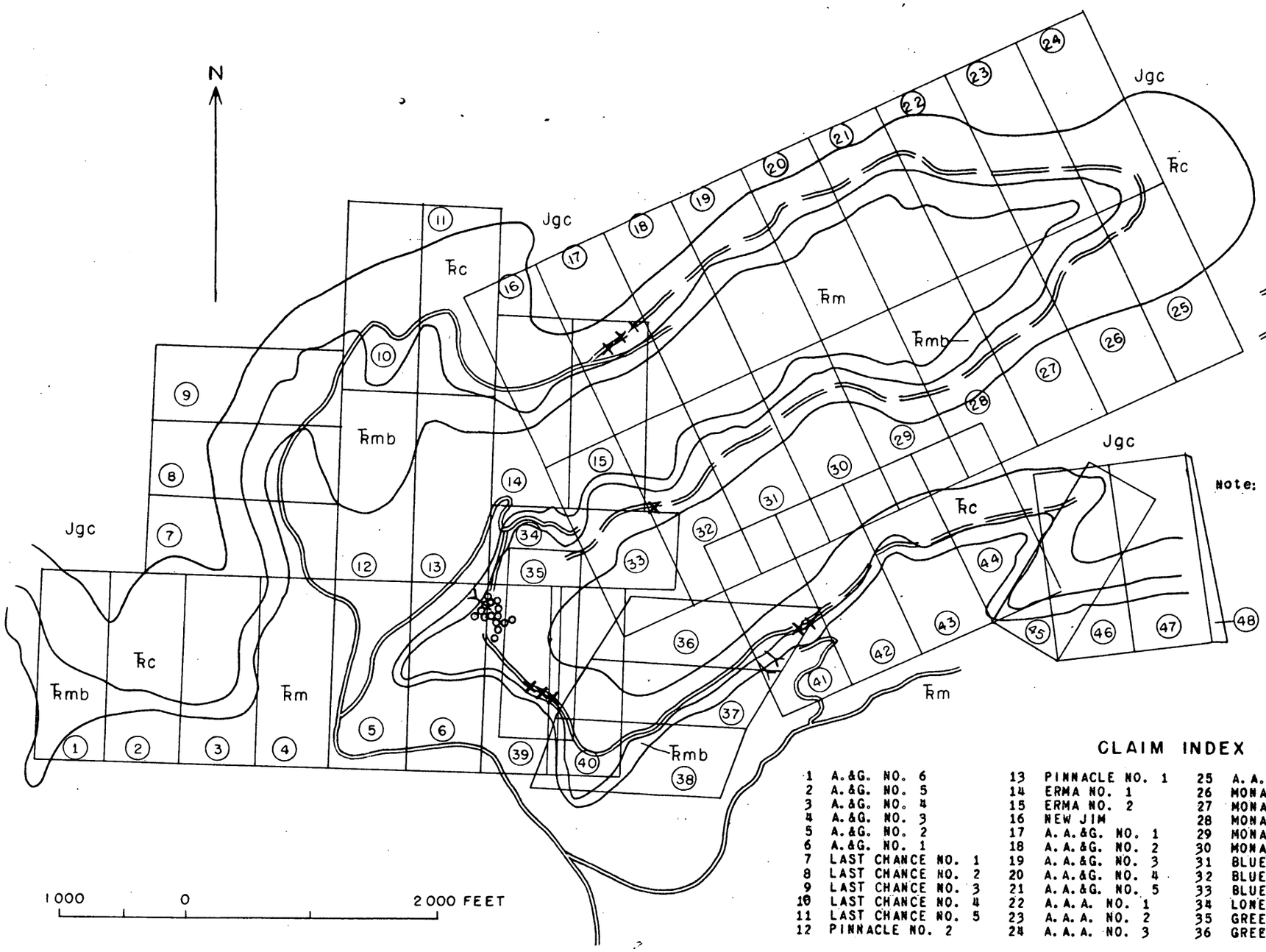
1 FREMONT NO. 6
2 FREMONT NO. 5
3 FREMONT NO. 4
4 FREMONT NO. 7
5 FREMONT NO. 3
6 FREMONT NO. 8
7 FREMONT NO. 2
8 SUSAN NO. 3
9 SUSAN NO. 2
10 SUSAN NO. 1
11 CABIN NO. 1
12 CABIN NO. 2
13 MUDDY NO. 1
14 MUDDY NO. 2
15 MUDDY NO. 3
16 MUDDY NO. 4
17 CANYON NO. 1
18 CANYON NO. 2
19 CANYON NO. 3

EXPLANATION

Ꞧw	TRIASSIC WINGATE AND YOUNGER, UNDIFFERENTIATED
Ꞧc	TRIASSIC CHINLE FORMATI
Ꞧmb	MOSS BACK MEMBER OF THE TRIASSIC CHINLE FORMATION
Ꞧm	TRIASSIC MOENKOPI FORMATION
	EXISTING ROADS
	PROPOSED ROADS
X	POSSIBLE DRILLSITES
	MINE OR ADIT

Note: GEOLOGY AND CLAIM BOUNDARIES FROM APPLICANTS MAP.

Figure 2. GEOLOGIC MAP SHOWING LOCATION OF ROCKY MOUNTAIN URANIUM CORPORATIONS FREMONT AND LITTLE SUSAN GROUPS OF CLAIMS, EMERY COUNTY, UTAH.



EXPLANATION

Jgc	JURASSIC GLEN CANYON GROUP, UNDIFFERENTIATED
Ꞧc	TRIASSIC CHINLE FORMATION
Ꞧmb	MOSS BACK MEMBER OF THE TRIASSIC CHINLE FORMATION
Ꞧm	TRIASSIC MOENKOPI FORMATION
	EXISTING ROADS
	PROPOSED ROADS
o	DRILL HOLES
X	POSSIBLE DRILLSITES
	MINE OR ADIT

Note: GEOLOGY AND CLAIM BOUNDARIES FROM APPLICANTS MAP.

CLAIM INDEX

1	A.&G. NO. 6	13	PINNACLE NO. 1	25	A.A.A. NO. 1	37	GREEN DRAGON NO. 4
2	A.&G. NO. 5	14	ERMA NO. 1	26	MONARCH NO. 5	38	GREEN DRAGON NO. 1
3	A.&G. NO. 4	15	ERMA NO. 2	27	MONARCH NO. 4	39	CABIN CLAIM NO. 2
4	A.&G. NO. 3	16	NEW JIM	28	MONARCH NO. 3	40	CABIN CLAIM NO. 3
5	A.&G. NO. 2	17	A.A.&G. NO. 1	29	MONARCH NO. 2	41	LUCKY STRIKE NO. 1
6	A.&G. NO. 1	18	A.A.&G. NO. 2	30	MONARCH NO. 1	42	LUCKY STRIKE NO. 2
7	LAST CHANCE NO. 1	19	A.A.&G. NO. 3	31	BLUE BIRD NO. 3	43	LUCKY STRIKE NO. 3
8	LAST CHANCE NO. 2	20	A.A.&G. NO. 4	32	BLUE BIRD NO. 2	44	LUCKY STRIKE NO. 4
9	LAST CHANCE NO. 3	21	A.A.&G. NO. 5	33	BLUE BIRD NO. 1	45	NEW STRIKE NO. 1
10	LAST CHANCE NO. 4	22	A.A.A. NO. 1	34	LONE CEDAR	46	NEW STRIKE NO. 2
11	LAST CHANCE NO. 5	23	A.A.A. NO. 2	35	GREEN DRAGON NO. 4	47	NEW STRIKE NO. 3
12	PINNACLE NO. 2	24	A.A.A. NO. 3	36	GREEN DRAGON NO. 3	48	NEW STRIKE FRACTION NO. 4

Figure 3. GEOLOGIC MAP SHOWING LOCATION OF ROCKY MOUNTAIN URANIUM CORPORATIONS GREEN DRAGON GROUP OF CLAIMS, EMERY COUNTY, UTAH.

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GEOLOGICAL SURVEY
DENVER, COLORADO

RECEIVED
DEC - 7 1955

TRANSMITTED
DEC 5 1955

[illegible], [illegible] AND [illegible]

By H. H. Brown and C. H. Dobak

Rocky Mountain Uranium Corp., owner and lessee of uranium properties in Emery County, Utah, applied for Government assistance in exploration under docket No. [illegible]. The applicant has requested a loan of $[illegible] to conduct a program consisting of [illegible] feet of drilling, [illegible] feet of access-road construction, and [illegible] feet of drifting to search for uranium ores in the Shurt Rock member of the Chinle formation. An examination of the properties was made by DMEA personnel during August 1955.

Mining claims controlled by Rocky Mountain Uranium Corp. lie on the southwestern flank of the San Rafael Swell. Sedimentary rocks in the area include the Moenkopi formation, the oldest unit exposed, the Chinle formation, and the Wingate sandstone. All are Triassic in age. A few diabase dikes occur in the area, but do not appear to be related to uranium mineralization.

Uranium deposition in the San Rafael Swell area is virtually restricted to the lowest topographic position within channels in the Shurt Rock member of the Chinle formation. Many channels contain radioactive carbon along bedding planes 15 to 20 feet above the bottom of the channels. Rock occurrences in the San Rafael Swell area generally

Reviewed by
DMEA OPERATING COMMITTEE
12-12-55
(date)

do not make ore deposits. Valuable ore bodies in the area are restricted to low points at the base of channels, and some replacement of the sandstone is essential. The significant ore bodies in the Small area appear to be confined to the most continuous channels.

The applicant has proposed exploration on the Green Dragon, Little Susan, and Fremont groups of claims. The Shea Rock sandstone outcrops for a considerable distance along rims on the property. Many secondary channels are exposed. Mineralization on the Green Dragon claims appears to be restricted principally to a zone of carbon along bedding planes stratigraphically above the base of channels. The channels are discontinuous and are believed to be unfavorable for occurrence of significant ore deposits. The Little Susan channel traverses the Little Susan and Fremont groups of claims. The same channel has been explored on the adjoining Lynn and Maynard property under docket No. [illegible]. Exploration on this property to date has disclosed no important mineralization.

Available information indicates that exploration proposed by Rocky Mountain Uranium Corp. on the Green Dragon, Little Susan and Fremont claims will not result in significant discovery of uranium ore. Recommendation is therefore made that the request for assistance be denied.

12/21/55 gla

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

RECEIVED
DEC 21 1955

December 20, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3841, Rocky Mountain Uranium Corporation, Green Dragon, Little Susan, and Fremont claims, Emery County, Utah

I have reviewed the report of examination of Rocky Mountain Uranium Corporation, DMEA Docket 3841, dated December 5 and received in this office December 12. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The Rocky Mountain Uranium Corporation requested Federal assistance to explore for uranium on claims located in Emery County, Utah. The proposed project consists of 84,150 feet of diamond drilling, 25,000 feet of access-road construction, and 3,000 feet of drifting, totaling $204,075.

A DMEA field examination made on August 23 and 24, 1955, of subject property caused the examining team to conclude that present information does not indicate a possibility exists of finding significant ore deposits. Therefore the Field Team recommends denial of the request for Government assistance.

I concur in the recommendation of the Field Team that the application for Federal aid be denied.

Mr. Hosted recommends that Government assistance be denied for exploration work on the Green Dragon group of claims, and that action and proposed work on the Fremont and Little Susan groups of claims be held in abeyance until completion of work on the Ryan and Maynard property under DMEA Docket 3553.

In accordance with the routing slip attached thereto, the report is being forwarded to the Chief, Division of Minerals.

John E Crawford
John E. Crawford

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

RECEIVED
DEC 21 1955

December 20, 1955

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Uranium Commodity Committee, Room 4445

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In accordance with the routing slip attached thereto, the report is being forwarded to the Chief, Division of Minerals.

John E. Crawford

12/16/55 gla

IN REPLY REFER TO:

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

RECEIVED
DEC 16 1955

December 15, 1955

Re: DMEA 3841
Rocky Mtn. Uranium Corp.
Green Dragon, Little Susan
and Fremont groups
Emery Co., Utah
Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The applicant requested aid in doing a large amount of work on 3 groups of claims, from 2 of which production is recorded as:--

To March 31, 1955, Green Dragon 771 tons at 0.29% U_3O_8
" " " " Little Susan 74 tons at 0.43% U_3O_8

The Green Dragon production has come from 2 small ore bodies at the base of the Moss Back member of the Chinle formation. The Little Susan production is from the channel of the same name which is supposed to course through the Little Susan, Ryan and Maynard, and Fremont claims. In addition to the work on the Little Susan claims, work is now being done in the channel on the Ryan and Maynard claims under DMEA 3553. The Ryan and Maynard claims lie between the Little Susan and Fremont groups and results of the Ryan and Maynard work, which to this time has been non-productive, is used to judge the potential of the channel in the Little Susan and Fremont groups. No further work in the channel in the Little Susan group and no work in the Fremont group is recommended.

On the Green Dragon group production has come from a "zone of carbonaceous materials concentrated along bedding planes stratigraphically above the base of channels. The channels appear to be discontinuous and are not believed to be favorable for occurrence of significant ore deposits."

The examiners conclude that "Available information indicates that ore deposits of significance will not be found by exploration proposed on the Green Dragon, Little Susan and Fremont groups of claims." Denial of the application is recommended.

In view of the work now being done in the Little Susan channel on the Ryan and Maynard group, between the Fremont and Little Susan groups, judgment of this application might be aided by knowing the results of that work. I accept the conclusions of the examiners that work on the Green Dragon group is not warranted.

I concur with the recommendations of the examiners and the Field Team that the application be denied if immediate and final action is desirable.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
DEC 16 1955

December 15, 1955

Re: DMEA 3841
Rocky Mtn. Uranium Corp.
Green Dragon, Little Susan
and Fremont groups
Emery Co., Utah
Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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I concur with the recommendations of the examiners and the Field Team that the application be denied if immediate and final action is desirable.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-12/15/55

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

IN REPLY REFER TO:

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

RECEIVED
DEC 16 1955

December 15, 1955

Re: DMEA 3841
Rocky Mtn. Uranium Corp.
Green Dragon, Little Susan
and Fremont groups
Emery Co., Utah
Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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In view of the work now being done in the Little Susan channel on the Ryan and Maynard group, between the Fremont and Little Susan groups, judgment of this application might be aided by knowing the results of that work. I accept the conclusions of the examiners that work on the Green Ranch group is not warranted.

I concur with the recommendations of the examiners and the Field Team that the application be denied if immediate and final action is desirable.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-12/15/55

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

IN REPLY REFER TO:

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

RECEIVED
DEC 16 1955

December 15, 1955

Re: DMEA 3841
Rocky Mtn. Uranium Corp.
Green Dragon, Little Susan
and Fremont groups
Emery Co., Utah
Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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The examiners conclude that "Available information indicates that ore deposits of significance will not be found by exploration proposed on the Green Dragon, Little Susan and Fremont groups of claims." Denial of the application is recommended.

In view of the work now being done in the Little Susan channel on the Ryan and Maynard group, between the Fremont and Little Susan groups, judgment of this application might be aided by knowing the results of that work. I accept the conclusions of the examiners that work on the Green Dragon group is not warranted.

I concur with the recommendations of the examiners and the Field Team that the application be denied if immediate and final action is desirable.

W. E. Nelson

W. E. Nelson

WEWelson:iml
G-12/13/55

cc: Director's reading, 4212
Branch reading, 4212
BMMA (3)
Docket file
J. M. Crawford, 3641
J. O. Kosted, 3210

12/13/55 glu

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

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DEC - 7 1955

December 5, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 3841, (Uranium), Rocky Mountain Uranium Corporation, Green Dragon, Little Susan, and Fremont claims, Emery County, Utah

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

The field examiners believe that significant ore deposits will not be found by the proposed exploratory work. They recommend that the request for Government assistance by denied. We concur in this recommendation.

E. N. Harshman

E. N. Harshman
Acting Executive Officer, DMEA
Field Team, Region III

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
12-12-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

November 25, 1955

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DENVER, COLORADO

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DEC - 7 1955

DMEA
Date Rec'd
TRANSMITTED
DEC 05 1955
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Marshman

From: Stephen R. Wilson
J. William Kesler

Subject: Docket No. DMEA-3341 (Uranium), Rocky Mountain Uranium Corp., Green Dragon, Little Susan and Fremont claims, Emery County, Utah

Enclosed are the original and 10 copies of a joint engineering and geologic report pertaining to examination of the subject property for DMEA loan appraisal. The report was prepared by M. M. Hewes and C. M. Roach. Also included are copies of a separate section, Summary, Conclusions and Recommendations.

The applicant corporation has requested Government assistance totaling $204,075 to conduct an exploratory project consisting of 24,150 feet of diamond drilling, 25,000 feet of access road construction, and 3,000 feet of drifting. The proposed program is planned to search for uranium ores in the Moss Back member of the Chinle formation on the Green Dragon, Little Susan and Fremont groups of claims.

Uranium ore deposits in the San Rafael Swell area are virtually restricted to the lowest topographic positions within channels at the base of the Moss Back sandstone. Many channels contain radioactive carbon along bedding planes 15 to 30 feet above the bottom of the channels. However, such occurrences in the San Rafael Swell area generally do not contain sufficient uranium to make workable ore bodies.

Mineralization on the Green Dragon claims occurs mainly in a zone of carbonaceous material concentrated along bedding planes stratigraphically above the base of channels. The Little Susan channel, which traverses the Little Susan and Fremont claims, is presently being explored on the adjoining Ryan and Maynard property under docket No. DMEA-3353. No significant mineralization has been disclosed to date.

Reviewed by
DMEA OPERATING COMMITTEE
12-12-55
(date)

The examining engineer and geologist believe that present information indicates that significant ore deposits will not be found by exploratory work proposed by the applicant. Recommendation is made that the request for Government assistance be denied. We concur in this recommendation.

Stephen R. Wilson
Stephen R. Wilson
Bureau of Mines

J. William Hasler
J. William Hasler
Geological Survey

RECEIVED
DEC - 7 1955

ROCKY MOUNTAIN URANIUM CORP.
EMERY COUNTY, UTAH
DMEA-3841
Uranium

TRANSMITTED
DEC 5 1955

Engineering and Geologic Report

By M. H. Howes
Mining Engineer
Bureau of Mines

C. H. Roach
Geologist
Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
12-12-55
(ASTO)

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DEC - 7 1955

ROCKY MOUNTAIN URANIUM CORP.
EMERY COUNTY, UTAH

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Ownership and extent	3
Geology and ore deposits	6
Minable ore reserves	10
Present status	10
Project proposals	11
Estimated cost of project proposals	14
Proposed financing	16
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ILLUSTRATIONS

Fig. 1 Location map, Rocky Mountain Uranium Corp., Emery County, Utah
Fig. 2 Geologic map, with locations of Fremont and Little Susan claims
Fig. 3 Geologic map, with locations of Green Dragon claims.

INTRODUCTION

Rocky Mountain Uranium Corp., owner and lessee of uranium properties in Emery County, Utah, applied May 24, 1955, for Government aid in an exploratory project under docket No. DMEA-3841. The proposed program consists of 84,150 feet of drilling, 25,000 feet of access-road construction, and 3,000 feet of drifting, to explore for uranium ores in the Moss Back member of the Chinle formation on the Fremont, Little Susan and Green Dragon groups of claims. The total estimated cost is $204,075.

A field examination of the property was made August 23 and 24, 1955, by C. H. Roach, Geological Survey, and M. H. Howes, Bureau of Mines, to determine the feasibility of the proposed exploratory program and to appraise the estimated costs and engineering aspects of the job. The field examiners were escorted over the property by Clay Jensen, watchman for Rocky Mountain Uranium Corp.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property, consisting of Fremont, Little Susan and Green Dragon groups of claims, is located near the Muddy River, in the southern part of the San Rafael Swell, southwestern Emery County, Utah, approximately 50 airline miles southwesterly from Green River, Utah. The Fremont and Little Susan groups are situated approximately 1½ miles northwest and across the river from the Delta mine, largely in the northeast

corner of T. 26 S., R. 8 E., S.L.B. and M. The Green Dragon group lies about 7 miles north of the Fremont group in the southeast part of T. 24 S., R. 8 E., S.L.B. and M.

The property may be reached by traveling 37 miles south from Green River on Utah Highway 24 to Temple Mountain road, thence westerly on Temple Mountain road 33 miles to the Green Dragon group, or 36 miles to the Fremont and Little Susan groups.

The topography of the area in which the claims are situated is composed largely of cliffs and canyons common to the Colorado Plateau. Vegetation, chiefly desert plants, is sparse. The climate is semiarid. Summers are hot and dry. However, flash floods, caused by cloudbursts, frequently occur in late summer and early fall. Winters are generally mild, with infrequent subzero temperatures. Snowfall is moderate.

HISTORY AND PRODUCTION

The property, comprised of 67 lode mining claims, was located in 1953 and 1954 and was acquired soon after location by the Rocky Mountain Uranium Corp. This corporation conducted an exploratory drifting and drilling program on the most likely mineralized showings exposed on the property. The Green Dragon group, A & G No. 1 claim produced 697 tons of ore averaging 0.285 percent U_3O_8, and the Green Dragon No. 3 claim produced 44 tons of ore assaying 0.33 percent U_3O_8 to March 31, 1955. The Susan No. 1 claim of the Little Susan group has a production record of 74 tons of ore averaging 0.43 percent U_3O_8 to March 31, 1955.

No work of any kind was in progress on the property at the time of field examination.

OWNERSHIP AND EXTENT

Rocky Mountain Uranium Corp., 301 Mercantile Commerce Building, Dallas 1, Texas, is a Delaware corporation. Officers of the company are as follows:

Critchell Parsons, President, Dallas, Texas

Gene W. Hewett, Vice President and Treasurer, Dallas, Texas

Herman H. Lewis, Vice President, Dallas, Texas

Clarence J. Spangler, Secretary and Assistant Treasurer

M. J. Marshall, Assistant Secretary.

The property consists of 48 unpatented lode mining claims comprising the Green Dragon group, 7 lode mining claims comprising the Fremont group, and 12 lode mining claims comprising the Little Susan group.

The Rocky Mountain Uranium Corp. owns a half interest in the Green Dragon group and is presently purchasing the other half interest under contract; holds a lease on the Fremont group; owns a half interest in a lease on the Susan Nos. 1, 2 and 3 claims of the Little Susan group, and is presently purchasing under contract the other half interest in the lease; and owns a half interest in the Cabin Nos. 1 and 2, Muddy Nos. 1, 2, 3 and 4, and Canyon Nos. 1, 2 and 3 claims of the Little Susan group, and is presently purchasing under contract the remaining half interest in these claims.

The location notices for Fremont, Little Susan and Green Dragon Groups of claims are recorded in the office of the County Recorder at Castle Dale, Emery County, Utah, as follows:

Green Dragon Group

Name of Claim	Date Located	Book	Page
Green Dragon No. 1	12/2/53	J-14	411
" " " 2	"	"	412
" " " 3	"	"	413
" " " 4	"	"	410
Lucky Strike No. 1	1/28/54	J-16	9
" " " 1 Amended	"	"	211
" " " 2	"	"	10
" " " 2 Amended	"	"	212
" " " 3	"	"	11
" " " 3 Amended	"	"	213
" " " 4	7/21/54	J-30	140
New Strike No. 1	1/28/54	J-16	12
" " " 1 Amended	"	J-18	504
" " " 2	"	J-16	13
" " " 2 Amended	"	J-18	505
" " " 3	"	J-16	14
" " " 3 Amended	"	J-18	506
" " " 3 Amended	3/10/54	J-30	141
New Strike Fraction No. 4	7/21/54	"	142
A & G No. 1	2/3/54	J-16	94
" " 2	"	"	95
" " 3	"	"	96
" " 4	"	"	97
" " 5	"	"	98
" " 6	"	"	99
Lone Cedar No. 1	2/5/54	J-16	209
Pinnacle No. 1	2/4/54	"	210
" " 2	"	"	100
Blue Bird No. 1	1/29/54	"	15
" " " 1 Amemded	"	"	214
" " " 1 Amended	"	J-30	132
" " " 2	"	J-16	16
" " " 2 Amended	"	"	215
" " " 2 Amended	"	J-30	133
" " " 3	"	J-16	17
" " " 3 Amended	"	"	216
" " " 3 Amended	"	J-30	134
A A & G No. 1	2/2/54	J-16	180
" " 2	"	"	181
" " 3	"	"	182
" " 4	"	"	183
" " 5	"	"	184
New Jim	3/5/54	J-19	536
Cabin No. 2	—	—	—
" " 3	—	—	—

Name of Claim	Date Located	Book	Page
Erma No. 1	2/2/54	J-17	36
" " 2	2/3/54	"	37
Monarch No. 1	2/2/54	J-16	185
" " 2	"	"	186
" " 3	"	"	187
" " 4	"	"	188
" " 5	"	"	189
Last Chance No. 1	7/23/54	J-30	135
" " " 2	"	"	136
" " " 3	"	"	137
" " " 4	"	"	138
" " " 5	"	"	139
AAA No. 1	7/24/54	J-31	184
" " 2	"	"	185
" " 3	"	"	186
" " 4	"	"	187
Fremont Group			
Fremont No. 2	12/8/53	J-14	419
" " 2	12/12/54	J-71	450
" " 2 Amended	"	"	445
" " 3	11/29/53	J-14	418
" " 3	12/12/54	J-71	451
" " 3 Amended	"	"	446
" " 4	12/8/53	J-14	417
" " 4	12/12/54	J-71	452
" " 4 Amended	"	"	447
" " 5	12/8/53	J-14	416
" " 5	12/12/54	J-71	453
" " 5 Amended	"	"	448
" " 6	12/8/53	J-14	415
" " 6	12/12/54	J-71	454
" " 6 Amended	"	"	449
" " 7	—	—	—
" " 8	—	—	—
Little Susan Group			
little Susen	2/10/54	J-16	493
Susan No. 1 (Relocated)	11/12/54	J-62	454
little Susen	2/10/54	J-16	494
Susan No. 2 (Relocated)	11/12/54	J-62	455
little Susen	2/10/54	J-16	495
Susan No. 3 (Relocated)	11/12/54	J-62	456

Name of Claim	Date Located	Book	Page
Cabin No. 1	3/5/54	J-19	535
" " 1	6/25/54	J-25	341
" " 1	7/30/54	J-33	336
" " 1	11/12/54	J-62	471
" " 2	7/30/54	J-33	335
" " 2	11/12/54	J-62	472
Muddy No. 1	3/29/54	J-20	182
" " 1	11/12/54	J-62	464
" " 2	3/29/54	J-20	183
" " 2	11/12/54	J-62	465
" " 3	3/29/54	J-20	184
" " 3	11/12/54	J-62	466
" " 4	3/29/54	J-20	185
" " 4	11/12/54	J-62	467
Canyon No. 1	3/29/54	J-20	187
" " 1	11/12/54	J-62	468
" " 2	3/29/54	J-20	188
" " 2	11/12/54	J-62	469
" " 3	3/29/54	J-20	189
" " 3	11/12/54	J-62	470

GEOLOGY AND ORE DEPOSITS

Properties of Rocky Mountain Uranium Corp. are located on the southwestern flank of the San Rafael Swell, a large anticlinal structure. Numerous faults with small vertical displacement are not uncommon in the area. A few diabase dikes occur in the area, but do not appear to be related in any way to the ore deposits. The sedimentary rocks exposed in the area dip gently to the southwest, and are mainly of continental origin.

The sediments exposed in the area are Triassic and Jurassic in age. The Triassic Moenkopi formation is the oldest rock unit and is composed largely of thin, evenly bedded siltstone and fine-grained sandstone, red or red-brown in color. The Moenkopi is thought to be about 700 feet thick.

The Chinle formation of Triassic age consists of three members, the Monitor Butte being the lowest member, and is overlain by the Moss Back member and the Church Rock member, successively. Regionally, the Monitor Butte is 75-100 feet thick, but considerable local variations in thickness occur as the result of stream channel erosion before and during Moss Back time. The Monitor Butte consists of irregularly bedded siltstone, mudstone, and minor amounts of fine-grained sandstone. This unit has a distinctive purple-white color.

The Moss Back member of the Chinle formation unconformably overlies the Monitor Butte member. The contact between the two is irregular and is characterized, in places, by the presence of stream channel scours, where the Moss Back streams cut into the underlying Monitor Butte. These features are simply termed "channels," and their continuity varies considerably. Drilling experience in the San Rafael Swell has shown that some channels cannot be projected even for short distances immediately behind the outcrop, whereas others can successfully be traced for several thousands of feet. The Moss Back averages about 50 feet in thickness, but varies considerably in the vicinity of channels. The Moss Back consists of irregularly bedded, fine- to coarse-grained sandstone, quartz-limestone pebble conglomerate, and varying amounts of red and green mudstone. Carbonaceous materials are abundant locally, particularly in the upper two-thirds of the unit.

The Church Rock member of the Chinle formation unconformably overlies the Moss Back. The contact between the two members shows an interfingering relationship. The Church Rock consists of siltstone and fine-grained sandstone, red to purple in color.

The Triassic Wingate sandstone overlies the Chinle formation and is approximately 300 feet thick in the area. It is composed mostly of fine- to medium-grained sandstone, light brown to buff in color.

Uranium ore deposits in the San Rafael Swell are virtually restricted to the lowest topographic positions within the channels at the base of the Moss Back member of the Chinle formation. Many channels in the area contain concentrations of radioactive carbon along bedding planes occurring 15 to 30 feet or more above the bottom of the channels. However, experience in the San Rafael Swell area has shown that such occurrences generally do not make ore deposits. The deposits in the area are restricted to the low points at the base of channels, and some replacement of the sandstone is essential before the presence of ore deposits can be predicted. In the vicinity of deposits, the red mudstone underlying and within the channel has apparently been altered to gray green. The significant ore deposits appear to be restricted to the channels which are the most continuous.

During the field examination, outcrops and mine workings on all three claim groups were examined in detail. Observations pertinent to each group of claims are discussed separately below.

Underground workings on the Little Susan property have been examined in detail (fig. 2). An exploratory drift on property between the Little Susan claims and the Fremont group was also examined. The drift is being driven on the Ryan and Maynard property under docket No. DMEA-3553. No significant mineralization has been encountered in 200 feet of drifting in the same channel explored on the Little Susan claims.

It appears from a study of all outcrops and mine workings in the area that only small masses of ore can be expected to occur in the Little Susan channel. The sedimentary structures, which have localized the small masses of mineralized material found to date, indicate that significant deposits are not likely to be discovered in this specific area. However, the drifting operations are at present continuing on the Ryan and Maynard property, and if significant ore deposits are discovered by this operation, it might be advisable to reconsider proposals on the Fremont Nos. 2 and 8 claims. However, it seems advisable at this time to confine the exploration of the Little Susan channel to the Ryan and Maynard property to further test the favorability of the channel.

Two adits and 6 channels were examined in detail on the Green Dragon group of claims (fig. 3). The channels, in most cases, show insignificant amounts of scouring, and appear discontinuous. The two adits were driven on the basis of radioactive carbon shown at the

outcrop. No replacement of sandstone by uranium mineralization was observed on the Green Dragon claims. All mineralized material in the area is restricted to streaks of carbonaceous materials occurring along bedding planes stratigraphically above the channel base.

Although the applicant reports that a total of over 800 tons of ore was shipped from the Green Dragon claims, the mine workings do not, at present, show promise for additional production. The small lenticular masses of sandstone in the workings suggest that any additional masses of ore which might be discovered may contain not more than about 500 tons.

MINABLE ORE RESERVES.

There are no known minable ore reserves on the property

PRESENT STATUS

The property is served by approximately 25,000 feet of access roads.

Two camps have been established by the company, one on the Green Dragon group, and the other on the Little Susan group. The Green Dragon camp contains three bunkhouses, a boardinghouse, a changehouse, a small repair shop with blacksmith equipment, a warehouse, a butane-electric power plant, a powder magazine, and gasoline, oil, butane and water-storage tanks. The Little Susan camp serves both the Fremont and Little Susan groups. Its facilities consist of two bunkhouses, a boardinghouse, a changehouse, a butane-electric power plant, a powder magazine, and gasoline, oil, butane and water-storage tanks.

Several adits have been driven on mineralized showings on all three groups of claims. The two principal adits are the ones from which ore was produced on the A & G No. 1 claim of the Green Dragon group and the Susan No. 1 of the Little Susan group. More than 1,000 feet of drifting and crosscutting has been accomplished in the underground workings. A number of holes have been drilled on the Green Dragon group to test areas beyond favorable rim mineralization.

Mine labor is available at Green River and Price, Utah.

Supplies and equipment for mining can usually be obtained at Moab or Price, Utah.

Water is hauled from Hanksville, Utah, a distance of about 35 miles.

Airplane landing strips have been constructed at the Delta mine and at the Ryan and Maynard property, both of which are less than 2 miles from the Fremont and Little Susan groups.

PROJECT PROPOSALS

Green Dragon Group

Phase I

It is proposed to wagon drill 225 holes to an average depth of 150 feet, for a total of 33,750 feet, to explore 15 of the most favorable stream channels on the property. Drilling is proposed only in areas that are behind the rim, and on the trend of channels exposed at the outcrop.

Fifteen thousand feet of new access roads will be constructed to reach the above drill sites.

Phase II

If sufficient uranium mineralization is found to justify it, an additional 16,000 feet of wagon drilling and 2,000 feet of diamond drilling will be done to further explore the mineralized areas.

The phase II drilling will require an additional 4,000 feet of access-road construction.

Little Susan Group

Phase I

It is proposed to drift 1,500 feet along the axis or trough of the stream channel in which the workings of the Susan No. 2 claim are located, to explore for uranium ore.

Phase II

If ore is encountered in phase I, an additional 1,500 feet of crosscutting and drifting will be done to further delineate the ore bodies.

Phase III

If only minor mineralization is encountered in phase I, the following plan will be substituted for phase II: diamond drill 15 holes horizontally or inclined slightly upward, to an average depth of 300 feet, at 100-foot intervals, alternating on opposite sides of the main adit.

Fremont Group

Phase I

It is proposed to wagon drill 150 holes to an average depth of 150 feet, for a total of 22,500 feet, to explore the zones behind the rim, and the trend of channels exposed at the outcrop.

Three thousand feet of new access roads will be constructed to reach the above drill sites.

Phase II

If sufficient uranium mineralization is found to justify it, 5,400 feet of rotary drilling will be done to further explore the mineralized areas as follows: drill 6 vertical holes and 12 inclined holes to an average depth of 300 feet, the locations of the holes to be determined from information obtained in phase I.

The phase II drilling will require an additional 3,000 feet of access-road construction.

General Regulations

All drill holes shall be logged geologically and probed radiometrically, and the record of such logging and probing, together with certified copies of all assay certificates, shall be submitted with the operator's monthly progress reports.

All drill core and cuttings shall be saved and split, one-half retained by the operator for study and analysis, and one-half properly stored for the use of the Government.

The location, direction, and extent of all project work shall be subject to the approval of the Government.

ESTIMATED COST OF PROJECT PROPOSALS

It is estimated that the time required to complete the project is as follows: Green Dragon group, 4 months; Little Susan group, 6 months; and Fremont group, 2 months. Since the drilling on the Green Dragon and Fremont groups will be done simultaneously with the drifting in the Little Susan group, the entire program will be completed in 6 months.

The examining engineer has revised the cost estimates as presented by the applicant. It is believed this revision is more logical.

Green Dragon Group

Independent contracts -		
Wagon drilling - 49,750 feet at $1.00 per foot	$49,750.00	
Diamond drilling - 2,000 feet at $4.00 per foot	8,000.00	
Bulldozing access road - 19,000 feet (760 hours at $12.50 an hour)	9,500.00	$67,250.00
Supervision and technical services - 4 months at $500 per month		2,000.00
Miscellaneous (assaying) - 200 samples at $4.00 each		800.00
Total, Green Dragon group		$70,050.00

Little Susan Group

Independent contracts -		
Drifting and crosscutting - 3,000 feet at $20.00 per foot	$60,000.00	
Diamond drilling - 4,500 feet at $4.00 per foot	18,000.00	$78,000.00
Supervision and technical services - 6 months at $500.00 per month		3,000.00
Miscellaneous (assaying) - 200 samples at $4.00 each		800.00
Total, Little Susan group		$81,800.00

Fremont Group

Independent contracts -		
Wagon drilling - 22,500 feet at $1.00 per foot	$22,500.00	
Rotary drilling - 5,400 feet at $2.50 per foot	13,500.00	
Bulldozing access road - 6,000 feet (240 hours at $12.50 per hour)	3,000.00	$39,000.00
Supervision and technical services - 2 months at $500.00 per month		1,000.00
Miscellaneous (assaying) - 100 samples at $4.00 each		400.00
Total, Fremont group		$40,400.00

Summary of Costs

Green Dragon group	$ 70,050.00
Little Susan group	81,800.00
Fremont group	40,400.00
Total estimated cost of project	$192,250.00
Government participation at 75 percent	$144,187.50

PROPOSED FINANCING

The applicant corporation reports it is prepared to invest $48,062.50 in the proposed exploratory project, which is 25 percent of the estimated cost of $192,250.00, in accordance with the regulations on Government participation, as stated in Section 7, DMEA Order 1 Amended.

CONCLUSIONS AND RECOMMENDATIONS

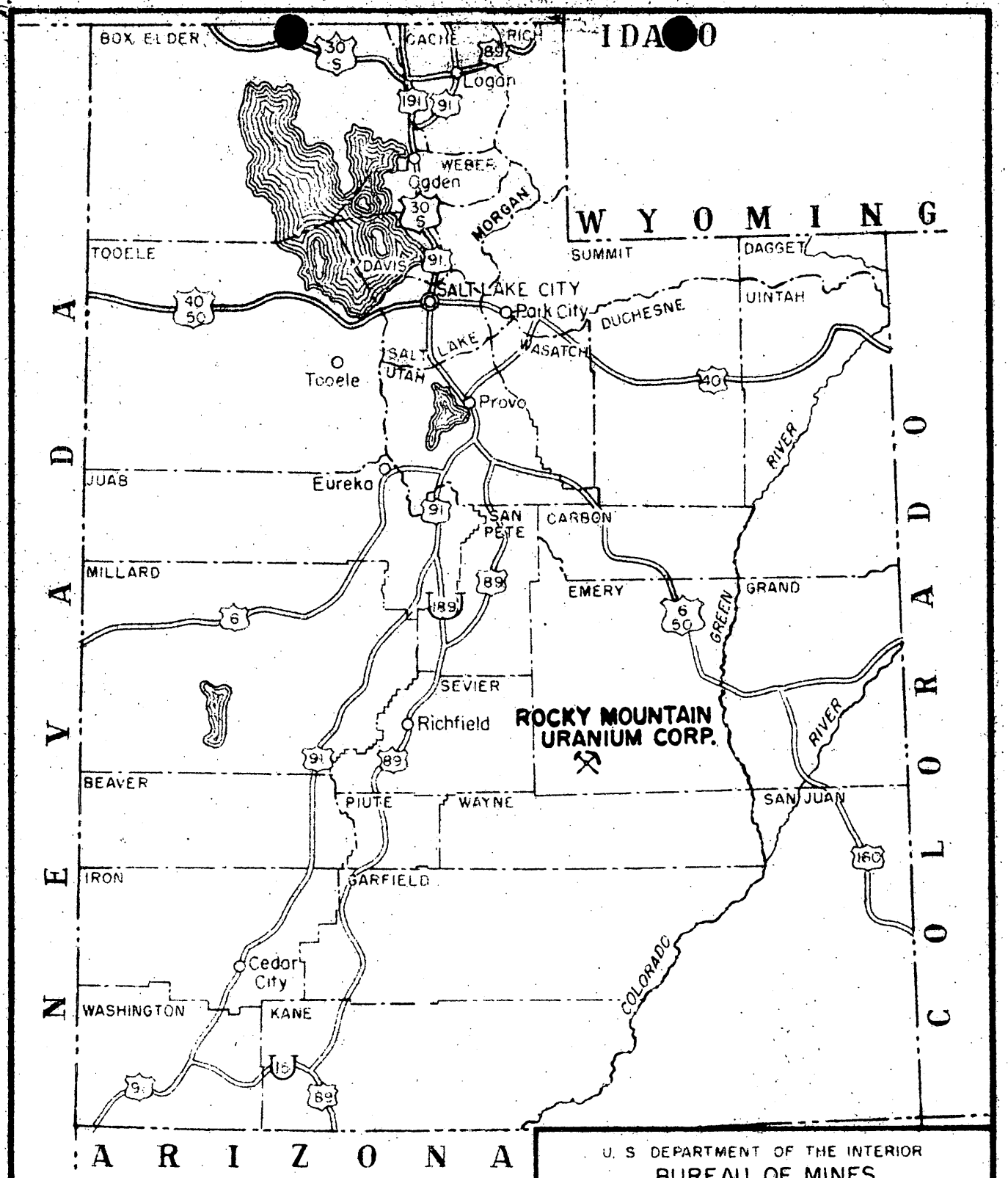
The applicant has proposed exploration consisting of drilling and underground work in searching for uranium ores on the Green Dragon, Little Susan and Fremont groups of claims, Emery County, Utah.

The most favorable ore-bearing horizon, the Moss Back sandstone, outcrops for a considerable distance along rims on the property. Numerous scours and stream channels are exposed. The Little Susan channel traverses the Little Susan and Fremont groups of claims, in addition to the Ryan and Maynard property. Government assistance on this latter property was granted under docket No. DMEA-3553. Exploration to date has disclosed no mineralization of significance.

Mineralization on the Green Dragon claims appears to be restricted mainly to a zone of carbonaceous materials concentrated along bedding planes stratigraphically above the base of channels. The channels appear to be discontinuous and are not believed to be favorable for occurrence of significant ore deposits.

Recommendation is made that the request for Government assistance in exploration on property of Rocky Mountain Uranium Corp. be denied.

Available information indicates that ore deposits of significance will not be found by exploration proposed on the Green Dragon, Little Susan and Fremont groups of claims.



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SCALE OF MILES

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3841

Location Map

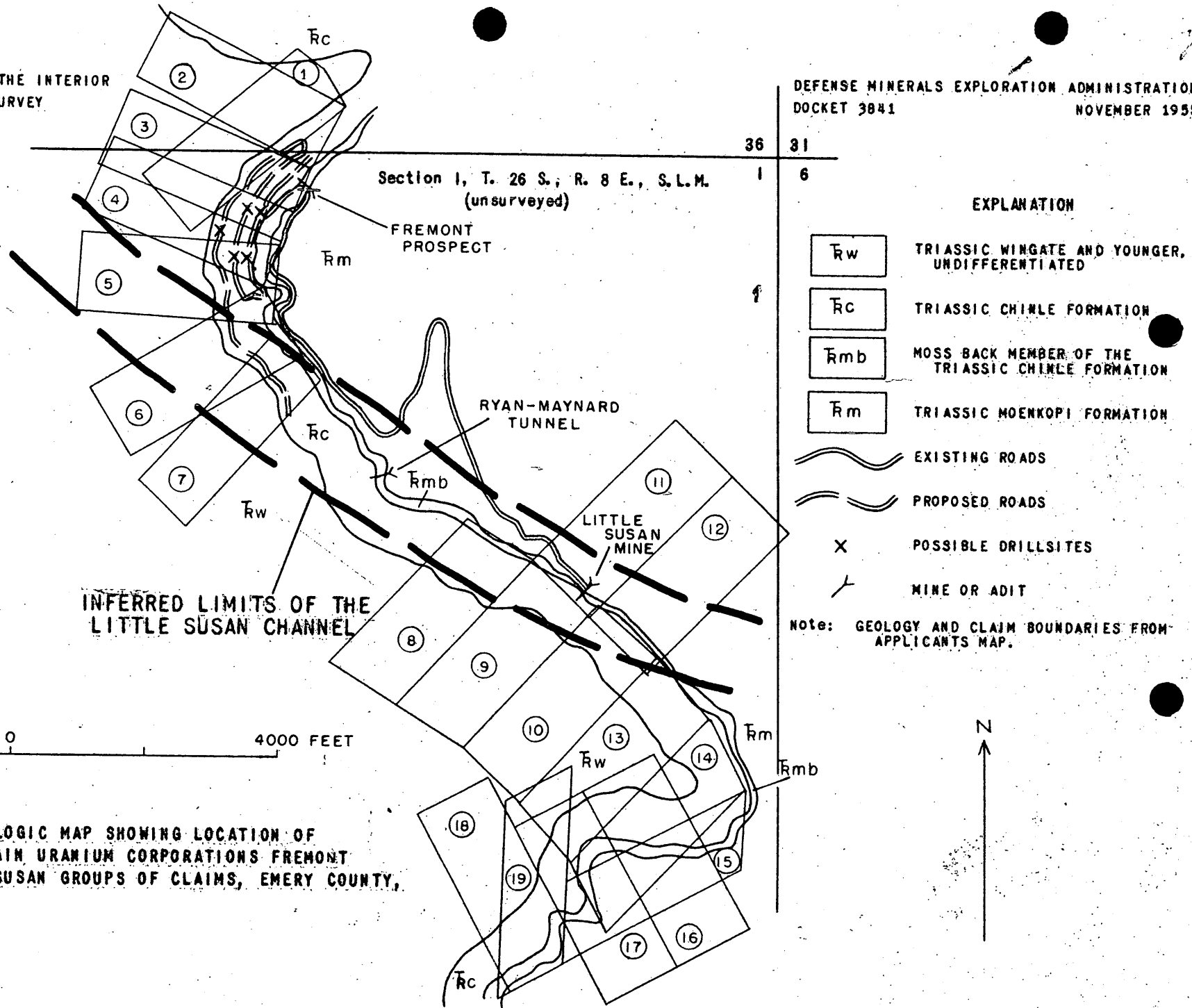
ROCKY MOUNTAIN URANIUM CORP.

EMERY COUNTY, UTAH

ENGINEER M. H. HOWES	DATE: OCT. 21, 1955
TRACED: OCT., 1955; BY: A.P.T.S.	1900 - 356 - E
CHECKED:	

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

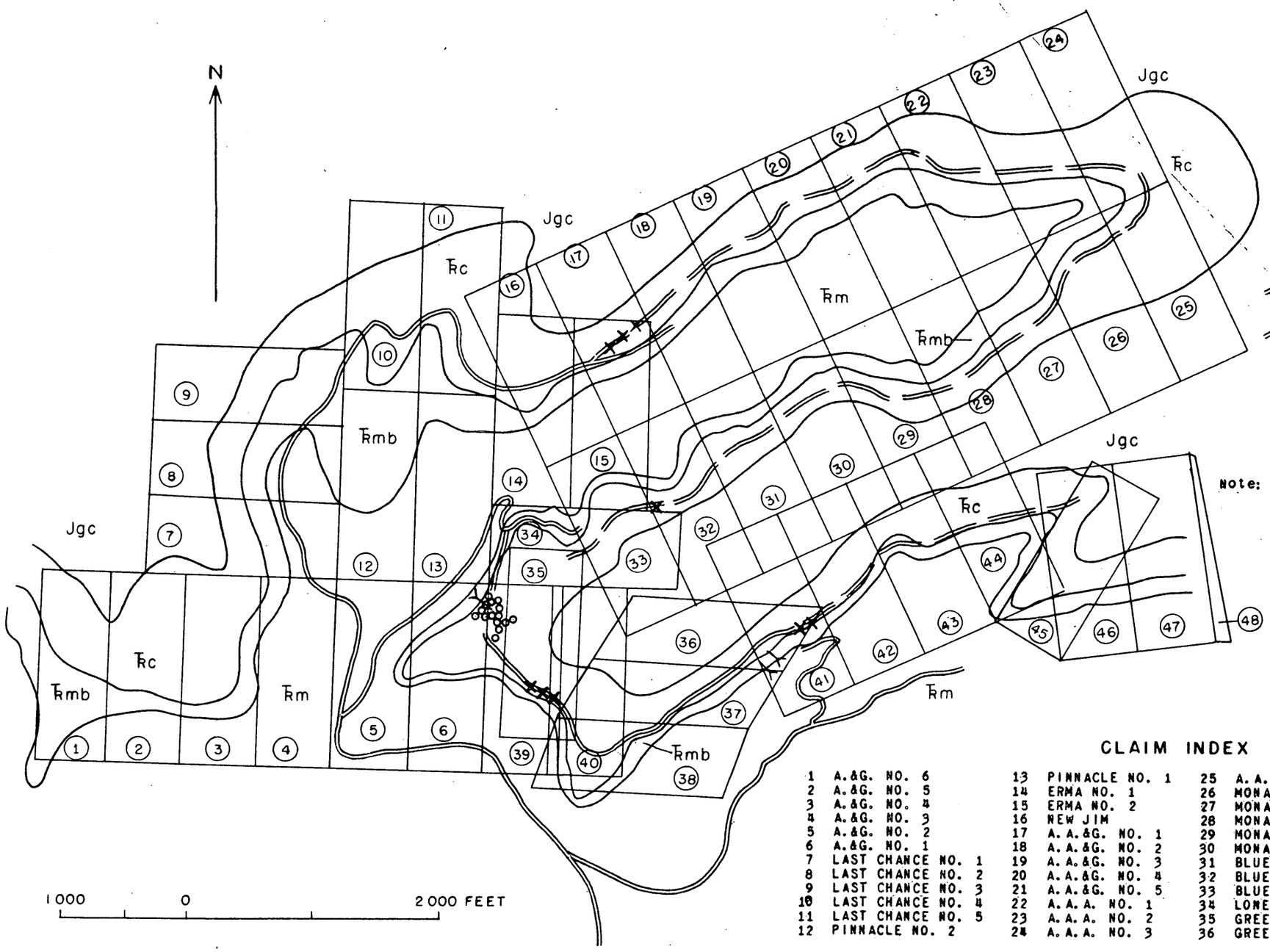
DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3841 NOVEMBER 1955



CLAIM INDEX

1 FREMONT NO. 6
2 FREMONT NO. 5
3 FREMONT NO. 4
4 FREMONT NO. 7
5 FREMONT NO. 3
6 FREMONT NO. 8
7 FREMONT NO. 2
8 SUSAN NO. 3
9 SUSAN NO. 2
10 SUSAN NO. 1
11 CABIN NO. 1
12 CABIN NO. 2
13 MUDDY NO. 1
14 MUDDY NO. 2
15 MUDDY NO. 3
16 MUDDY NO. 4
17 CANYON NO. 1
18 CANYON NO. 2
19 CANYON NO. 3

Figure 2. GEOLOGIC MAP SHOWING LOCATION OF ROCKY MOUNTAIN URANIUM CORPORATIONS FREMONT AND LITTLE SUSAN GROUPS OF CLAIMS, EMERY COUNTY, UTAH.



EXPLANATION

Jgc	JURASSIC GLEN CANYON GROUP, UNDIFFERENTIATED
Ꞧc	TRIASSIC CHINLE FORMATION
Ꞧmb	MOSS BACK MEMBER OF THE TRIASSIC CHINLE FORMATION
Ꞧm	TRIASSIC MOENKOPI FORMATION
	EXISTING ROADS
	PROPOSED ROADS
o	DRILL HOLE
X	POSSIBLE DRILLSITES
	MINE OR ADIT

Note: GEOLOGY AND CLAIM BOUNDARIES FROM APPLICANTS MAP.

CLAIM INDEX

1	A.&G. NO. 6	13	PINNACLE NO. 1	25	A.A.A. NO. 1	37	GREEN DRAGON NO. 4
2	A.&G. NO. 5	14	ERMA NO. 1	26	MONARCH NO. 5	38	GREEN DRAGON NO. 1
3	A.&G. NO. 4	15	ERMA NO. 2	27	MONARCH NO. 4	39	CABIN CLAIM NO. 2
4	A.&G. NO. 3	16	NEW JIM	28	MONARCH NO. 3	40	CABIN CLAIM NO. 3
5	A.&G. NO. 2	17	A.A.&G. NO. 1	29	MONARCH NO. 2	41	LUCKY STRIKE NO. 1
6	A.&G. NO. 1	18	A.A.&G. NO. 2	30	MONARCH NO. 1	42	LUCKY STRIKE NO. 2
7	LAST CHANCE NO. 1	19	A.A.&G. NO. 3	31	BLUE BIRD NO. 3	43	LUCKY STRIKE NO. 3
8	LAST CHANCE NO. 2	20	A.A.&G. NO. 4	32	BLUE BIRD NO. 2	44	LUCKY STRIKE NO. 4
9	LAST CHANCE NO. 3	21	A.A.&G. NO. 5	33	BLUE BIRD NO. 1	45	NEW STRIKE NO. 1
10	LAST CHANCE NO. 4	22	A.A.A. NO. 1	34	LONE CEDAR	46	NEW STRIKE NO. 2
11	LAST CHANCE NO. 5	23	A.A.A. NO. 2	35	GREEN DRAGON NO. 4	47	NEW STRIKE NO. 3
12	PINNACLE NO. 2	24	A.A.A. NO. 3	36	GREEN DRAGON NO. 3	48	NEW STRIKE FRACTION NO. 4

Figure 3. GEOLOGIC MAP SHOWING LOCATION OF ROCKY MOUNTAIN URANIUM CORPORATIONS GREEN DRAGON GROUP OF CLAIMS, EMERY COUNTY, UTAH.

RECEIVED
DEC - 7 1955

MINERAL DEPOSITS
DMEA
RECEIVED
NOV 30 1955

U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

TRANSMITTED
DEC 5 1955

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By M. H. Howes and C. H. Roach

Rocky Mountain Uranium Corp., owner and lessee of uranium properties in Emery County, Utah, applied for Government assistance in exploration under docket No. DMEA-3841. The applicant has requested a loan of $204,075 to conduct a program consisting of 84,150 feet of drilling, 25,000 feet of access-road construction, and 3,000 feet of drifting to search for uranium ores in the Moss Back member of the Chinle formation. An examination of the properties was made by DMEA personnel during August 1955.

Mining claims controlled by Rocky Mountain Uranium Corp. lie on the southwestern flank of the San Rafael Swell. Sedimentary rocks in the area include the Moenkopi formation, the oldest unit exposed, the Chinle formation, and the Wingate sandstone. All are Triassic in age. A few diabase dikes occur in the area, but do not appear to be related to uranium mineralization.

Uranium deposition in the San Rafael Swell area is virtually restricted to the lowest topographic position within channels in the Moss Back member of the Chinle formation. Many channels contain radioactive carbon along bedding planes 15 to 30 feet above the bottom of the channels. Such occurrences in the San Rafael Swell area generally

Reviewed by
DMEA OPERATING COMMITTEE
12-12-55
(Date)

do not make ore deposits. Workable ore bodies in the area are restricted to low points at the base of channels, and some replacement of the sandstone is essential. The significant ore bodies in the Swell area appear to be confined to the most continuous channels.

The applicant has proposed exploration on the Green Dragon, Little Susan, and Fremont groups of claims. The Moss Back sandstone outcrops for a considerable distance along rims on the property. Many scours and stream channels are exposed. Mineralization on the Green Dragon claims appears to be restricted principally to a zone of carbon along bedding planes stratigraphically above the base of channels. The channels are discontinuous and are believed to be unfavorable for occurrence of significant ore deposits. The Little Susan channel traverses the Little Susan and Fremont groups of claims. The same channel has been explored on the adjoining Ryan and Maynard property under docket No. DMEA-3553. Exploration on this property to date has disclosed no important mineralization.

Available information indicates that exploration proposed by Rocky Mountain Uranium Corp. on the Green Dragon, Little Susan and Fremont claims will not result in significant discovery of uranium ore. Recommendation is therefore made that the request for assistance be denied.

11-17-55 [illegible]

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

RECEIVED
NOV 17 1955

November 15, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3841 (Uranium), Rocky Mountain Uranium Corporation, Little Susan, A & G, and Green Dragon Mines, Emery County, Utah

This responds to your letter dated November 10, 1955 on the subject docket. The field advises that the Joint Report of Examination will be mailed to this office about November 25, 1955.

Since denial of the application is indicated, the data requested by the Acting Assistant Solicitor, Defense Minerals, has not been requested from the applicant.

W. M. Traver

By J W Townsend
J. W. Townsend

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

RECEIVED
NOV 17 1955

November 15, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3841 (Uranium), Rocky Mountain Uranium Corporation, Little Susan, A & G, and Green Dragon Mines, Emery County, Utah

This responds to your letter dated November 10, 1955 on the subject docket. The field advises that the Joint Report of Examination will be mailed to this office about November 25, 1955.

Since denial of the application is indicated, the data requested by the Acting Assistant Solicitor, Defense Minerals, has not been requested from the applicant.

W. M. Traver

By J. W. Townsend
J. W. Townsend

Surname Copy

700

F. L. Knouse
Elli
Selbridge
F. Johnson
Mittendorf

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

NOV 1 0 1955

Mr. W. K. Trever
Executive Officer
DMEA Field Team, Region III
9th New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3641 (Uranium)
Rocky Mountain Uranium Corporation
Little Susan, A & G, and Green
Dragon Mines
Emery County, Utah

Dear Mr. Trever:

This is with reference to our letters dated June 23, and July 11, 1955. The former letter requested a field examination and report and the latter listed various documents we would require and property title questions that were to be cleared up before a contract could be written.

Please advise when we may expect to receive the Field Team report, and the other information we requested.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (S/B)

APPROVED:

/s/ Robert W. Geehan (S/B)
Member, Bureau of Mines

Thor H. Kiilsgaard (S/B)
Member, Geological Survey

FLKnouse/izm
11/7/55
cc to: Admr.'s Reading File
Operating Committee
Docket
Code 700
Mr. Knouse
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.G.

Surname copy

Ching
Selfridge
Hoffman
Matteucci

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

JUL 11 1955

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

Re: Docket No. DMEA-3841 (Uranium)
Rocky Mountain Uranium Corporation
Little Susan, A & G, and Green
Dragon Mines
Emery County, Utah

Dear Mr. Traver:

In accordance with the last paragraph of our letter of June 23 on the subject docket, we are enclosing two copies of a Memorandum to The Administrator, dated July 6, 1955, from the Acting Assistant Solicitor, Defense Minerals, listing our requirements in connection with the property rights of the Applicant.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (WB)

Enclosures

APPROVED:

/s/ Robert W. Geehan (WB)

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey (WB)

MChing/gla
7-8-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J.O. Hosted, Rm. 3210, GSA
Code 700
Mr. Ching

cc

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

JUL - 6 1955

Memorandum

To: The Administrator, DMEA
Attention: Mr. E. W. Ellis

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA-3841 (Uranium) Rocky Mountain Uranium Corporation

In response to Mr. Knouse's memorandum of June 14, which was returned to Mr. Knouse without action on June 17 and resubmitted to this office on June 23, we have reviewed the subject docket to determine the interests in land held by the applicant and instruments of security required in connection with a contract.

1. (a) In an agreement executed April 24, 1954, Tom McBroom leased to Torval, Carl, and Howard Albrecht, and Ben J. Dieringer, the Little Susan Nos. 1, 2, and 3 for 5 years, renewable. (Consent to Lien of lessor, Tom McBroom, is required.)

(b) In an agreement dated August 24, 1954, the four above-named lessees and their wives assigned a 50% interest in their lease of the 3 Little Susan claims to Minexco, Inc., retaining the remaining 50% interest. (Consents to Lien are required from Torval, Carl, and Howard Albrecht and their wives, and Ben J. Dieringer and his wife for the 50% interest retained in lease.)

(c) In an instrument dated January 18, 1955, the sole surviving directors of Minexco, Inc., as trustees for the stockholders, conveyed the corporation's 50% interest in the lease of the 3 Little Susan claims to the applicant.

2. (a) In an instrument dated June 28, 1954, Clifton Sorenson et al. (consisting of a total of 12 lessors) leased to Minexco, Inc., the Fremont Nos. 2 through 6, claims, for a period of 5 years, renewable. (Consent to Lien of the 12 lessors is required).

(b) In an instrument dated November 8, 1954, Minexco assigned to the applicant its interest in the Fremont claims, and applicant appears to have a sufficient interest in these claims.

3. In an instrument dated August 25, 1954, Howard and Torval Albrecht purported to convey their 50% interest in 60 claims made up of the Green Dragon Group and the Little Susan Group, apparently including their lease interest in the Little Susan Claims 1, 2, and 3. The agreement reserved a 6¼% interest in production, exclusive of production from (4) claims leased from Tom McBroom in the Green Dragon Group, and exclusive of the (3) claims leased from Tom McBroom in the Little Susan Group, as to which they reserved 1¼% interest.

(a) We do not understand the nature of the interest in the Little Susan Claims Nos. 1, 2, and 3 conveyed by this instrument, since lessees Carl Albrecht and Ben J. Dieringer did not join in the instrument and they are lessees named in the original lease from Tom McBroom. However, the point need not be considered further if the Consents to Lien for the Little Susan Nos. 1, 2, and 3 are obtained as set forth above, as the applicant appears to have a sufficient interest in these three claims for the purposes of an exploration project contract.

(b) With respect to the other (57) claims in the "Green Dragon Group" and the "Little Susan Group," the instrument does not identify the claims, and we should have more specific identification of the claims.

Apparently the instrument is intended to convey a 50% interest in those claims of the "Little Susan Group" of claims which Howard and Torval Albrecht purport to own, as the application (3(c)) states that applicant owns a 50% interest in the Cabin Nos. 1 and 2, Muddy Nos. 1, 2, 3, and 4, and Canyon Nos. 1, 2, and 3. If Howard and Torval Albrecht own 50% interest in these claims and, if, as the application states, applicant owns the other 50%, applicant has a sufficient interest in the land. (Consent to Lien of Howard and Torval Albrecht is required for the Cabin, Muddy, and Canyon claims, and of any other owners.)

The comment immediately above applies equally as well to the Green Dragon Group of claims. (Consent to Lien

of Howard and Torval Albrecht is required for Green Dragon Group, and of any other owners.)

4. The application states that the "½ interest owned by Rocky Mountain under purchase contract" is subject to a note dated September 2, 1954, having a balance of $84,000. We assume that this refers to the August 25, 1954, agreement discussed in paragraph 3 above. If it does, no additional security will be required. If, however, it means that the ½ ownership interest which the applicant claims to hold is subject to the note, then a copy of that purchase agreement will be required and Consent to Lien or Subordination Agreement, depending upon our examination thereof.

J. L. Hofflund

J. L. Hofflund
Acting Assistant Solicitor
Defense Minerals

Butler

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SOLICITOR
WASHINGTON 25, D. C.

JUL - 6 1955

Memorandum

To: The Administrator, DMEA
Attention: Mr. E. W. Ellis

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA-3841 (Uranium) Rocky Mountain Uranium Corporation

In response to Mr. Knouse's memorandum of June 14, which was returned to Mr. Knouse without action on June 17 and resubmitted to this office on June 23, we have reviewed the subject docket to determine the interest in land held by the applicant and instruments of security required in connection with a contract.

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The comment immediately above applies equally as well to the Green Dragon Group of claims. (Consent to Lien

of Howard and Torval Albrecht is required for Green Dragon Group, and of any other owners.)

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J. L. Hofflund

J. L. Hofflund
Acting Assistant Solicitor
Defense Minerals

HCRubin/emd

Copy to: DMEA Docket
Solicitor's Docket
E. W. Ellis
J. L. Hofflund
H. C. Rubin
chron.
Region III (2)

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

RECEIVED
JUL - 5 1955

224 New Customhouse
Denver 2, Colorado

June 28, 1955

Memorandum

To: S. R. Wilson (w/brochure)
J. W. Hasler

From: Field Team, Region III

Subject: Docket DMEA-3841 (Uranium), Rocky Mountain Uranium Corp., Little Susan, A & G, and Green Dragon Mines, Emery County, Utah

Enclosed is the subject application in the amount of $204,075.00.

The brochure consists of:

1. Form MF-103 and accompanying answering sheets.

2. A letter confirming the original agreement between Howard and Torval Albrecht and Rocky Mountain Uranium Corporation. This letter is dated August 25, 1954.

3. A photostat copy of a mining lease, dated June 4, 1954.

4. A photostat copy of assignment of mining lease, dated August 24, 1954.

5. A photostat copy of assignment of mining lease, dated January 18, 1955.

6. A mining lease, dated June 28, 1954, to Minexco, Inc.

7. Assignment of mining lease from Minexco, Inc. to the Rocky Mountain Uranium Corporation. This instrument is dated November 8, 1954.

8. A claim map of the Little Susan and Fremont groups.

9. A claim map of the Green Dragon group.

10. Geologic report prepared by Geoprofessional Services, Inc.

A field examination and suitable report are required.

Enclosures

W. M. TRAVER

W. M. Traver

E. N. Harshman

E. N. Harshman

DMEA Field Team, Region III

HMC:pw

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

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

RECEIVED
JUL - 5 1955

224 New Customhouse
Denver 2, Colorado

June 28, 1955

Memorandum

To: S. R. Wilson (w/brochure)
J. W. Hasler

From: Field Team, Region III

Subject: Docket DMA-3041 (Uranium), Rocky Mountain Uranium Corp., Little Susan, A & G, and Green Dragon Mines, Emery County, Utah

Enclosed is the subject application in the amount of $204,075.00.

The brochure consists of:

1. Form MF-103 and accompanying answering sheets.

2. A letter confirming the original agreement between Howard and Torval Albrecht and Rocky Mountain Uranium Corporation. This letter is dated August 25, 1954.

3. A photostat copy of a mining lease, dated June 4, 1954.

4. A photostat copy of assignment of mining lease, dated August 24, 1954.

5. A photostat copy of assignment of mining lease, dated January 13, 1955.

6. A mining lease, dated June 28, 1954, to Minexco, Inc.

7. Assignment of mining lease from Minexco, Inc. to the Rocky Mountain Uranium Corporation. This instrument is dated November 8, 1954.

8. A claim map of the Little Susan and Fremont groups.

9. A claim map of the Green Dragon group.

RECEIVED
JUL - 5 1955

10. Geologic report prepared by Geoprofessional Services, Inc.

A field examination and suitable report are required.

W. M. TRAVER

W. M. Traver

E. N. Harshman

E. N. Harshman

DMEA Field Team, Region III

Enclosures

HMC:pw

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

Surname 700

F L Knouse
Ellis
Kilegaard
Hedges
Selfridge
F B Johnson

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

JUN 23 1955

Mr. Gene W. Hewett
Vice-President
Rocky Mountain Uranium Corp.
301 Mercantile Commerce Bldg.
Dallas 1, Texas

Re: Docket No. DMEA-3841 (Uranium)
Little Susan, A & O, and Green Dragon Mines
Emery County, Utah

Dear Mr. Hewett:

The application for assistance in exploring the subject property in Emery County, Utah, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred for a field examination to the Executive Officer of Region III at the following address:

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

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse:am
6-20-55
cc to: Admr. Reading File
Docket
Code 700
Mr. Knouse
DMEA Field Team, Region III(2)

R.C.H

700

Surname copy

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

J Kuguel
Ellis
Selfridge
Johnson

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

JUN 23 1955

Re: Docket No. DMEA-3841 (Uranium)
Rocky Mountain Uranium Corporation
Little Susan, A & G, and Green
Dragon Mines
Emery County, Utah

Dear Mr. Traver:

The captioned application is referred to the Region III Field Team for a field examination and report on the proposed project. A copy of the application was retained by your office.

Enclosed are copies of memoranda from Mr. N. E. Nelson, dated June 15, and Mr. John E. Crawford, dated June 10, 1955, members of the Uranium Commodity Committee.

If the Field Team recommends either the program as submitted or an alternate one approved by the Applicant, please furnish the necessary information to draft a contract.

You will note that the maps of the claims submitted with the application show the claims as "Susan Nos. 1, 2, and 3," and "Lone Cedar," whereas the recording data lists claims as "Little Susan Nos. 1, 2, and 3" and "Lone Cedar No. 1" Also the map entitled "Rocky Mountain Uranium Corporation's Green Dragon Claims Muddy River District, Emery County, Utah" lists claim "25 A.A.A. No. 4," but does not show its location. Since claim No. 26 is duplicated, it is doubtless one of these claims. If a project is recommended, the above-mentioned discrepancies should be shown correctly on claim maps that are to be included with the proposed contract. Also, the Applicant should be requested to furnish the recording date of each claim.

Since the property rights of the Applicant are so complicated, the Legal Division will make a review of the application and determine what documents will be required from the Applicant to draft a contract. When this review is completed, a copy of their findings will be forwarded to you.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

J. H. Hedges (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

R.C.S.

Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Knouse

FLKnouse/am/gla
(6-17-55)
6-20-55
cc to: Admr.'s Reading File
Operating Committee
Docket

6/16/55 gh

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 15, 1955

Re: DMEA-3841
Rocky Mtn. Uranium Corp.
Little Susan, A & G & Green Dragon Mines
Emery Co., Utah
$204,075.00 - Uranium

Memorandum

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

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

Subject: Review of application

This application concerns claims in the general vicinity of the Ryan-Maynard claims of DMEA-3553. The work proposed for the Ryan claims 100 and 101, would prospect the Little Susan channel, the ore zone to be explored by the underground work of this proposal. To March 31st, 1955, 74 tons of 0.27% U_3O_8 had been shipped from the Little Susan mine and by May 16th an additional 115 tons may have been shipped. (See Summary of Ore Sales and Geologic Report pg. 9, of this application.) Perhaps the drifting in one property should await the results of work in the adjoining ground.

In the case of the Ryan-Maynard application the examiners decided that all drilling applied for was not immediately justified. Probably the same judgement will hold in this case.

At any rate a referral to the Field Team is indicated and here recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 15, 1955

Re: DMEA-3641
Rocky Mtn. Uranium Corp.
Little Susan, A & G & Green Dragon Mines
Emery Co., Utah
$204,075.00 - Uranium

Memorandum

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

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

Subject: Review of application

This application concerns claims in the general vicinity of the Ryan-Maynard claims of DMEA-3553. The work proposed for the Ryan claims 100 and 101, would prospect the Little Susan channel, the ore zone to be explored by the underground work of this proposal. To March 31st, 1955, 74 tons of 0.275 U_3O_8 had been shipped from the Little Susan mine and by May 10th an additional 115 tons may have been shipped. (See Summary of Ore Sales and Geologic Report pg. 9, of this application.) Perhaps the drifting in one property should await the results of work in the adjoining ground.

In the case of the Ryan-Maynard application the examiners decided that all drilling applied for was not immediately justified. Probably the same judgement will hold in this case.

At any rate a referral to the Field Team is indicated and here recommended.

H. E. Nelson

H. E. Nelson

HENelson:hlm
G-6/15/55

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

700

Surname F L Knouse
Ellis

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

June 14, 1955

Memorandum

To: Acting Assistant Solicitor, DMEA

From: F. L. Knouse, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-3841 (Uranium)
Rocky Mountain Uranium Corporation
Little Susan Claims, et al.
Emery County, Utah

Please review the subject docket and advise what instruments will be required, including Consents to Lien, in order to draft a contract.

F. L. Knouse

Attachment

FLKnouse:am
6-14-55
cc to: Docket
Code 700
Mr. Knouse

6/13/55 glw

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

June 10, 1955

RECEIVED
JUN 1 1955

Memorandum

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

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

Subject: Application for assistance - DMEA Docket 3841, Rocky Mountain Uranium Corporation, Emery County, Utah

I have reviewed the attached application for assistance, DMEA Docket 3841, and have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the application be referred to the Field Team for examination and report, and that the Field Team be requested to discuss the application with Ernest E. Thurlow, Atomic Energy Commission, Salt Lake City, Utah.

John E. Crawford

John E. Crawford

Attachment

June 1, 1955

Subject: DMEA-3841
Re: Exploration Assistance
Little Susan Mine, A&O Mine,
and Green Dragon Mine

Rocky Mountain Uranium Corp.
301 Mercantile Commerce Bldg.,
Dallas, 1 Texas

Gentlemen:

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

Your application has been assigned Docket Number DMEA-3841 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

June 1, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA-3841 Rocky Mountain Uranium Corp.

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

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMEA
Date Rec'd
MAY 25 1955
BUREAU OF MINES
Denver, Colorado

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

Defense Minerals Administration
RECEIVED
MAY 31 1955

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

Not to be filled in by Applicant

Docket No. 3841
Metal or Mineral Uranium
Date Received 5-31-55
Estimated Cost 204,075.00
Participation (Government %) 75

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:

Rocky Mountain Uranium Corporation (a Delaware corporation)
301 Mercantile Commerce Building, Dallas 1, Texas

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

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

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

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

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

The claims are located in what will be, when the area is surveyed, Sections 25 and 26 of T. 24 S., R. 8 E., and Section 36, T. 25 S., R. 8 E., and Section 1, T. 26 S., R. 8 E.

(*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

See attached

(*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

See attached

(*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 Uranium

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

(*c*) The work will start within ..... 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?

[X] Money [X] 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 May 24, 1955

ROCKY MOUNTAIN URANIUM CORPORATION
(Applicant)

By Gene W. Hewett

Gene W. Hewett, Vice 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

ROCKY MOUNTAIN URANIUM CORPORATION
301 Mercantile Commerce Building
Dallas 1, Texas

Minerals Administration
RECEIVED
MAY 31 1955

UNITED STATES DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

May 24, 1955

Application for Aid in An
Exploration Project, Pursuant to
DMEA Order 1, Under the Defense
Production Act of 1950, As Amended

1. (a) Name of applicant.

Rocky Mountain Uranium Corporation
301 Mercantile Commerce Building, Dallas 1, Texas

(b) A Delaware Corporation

(c) Critchell Parsons, President, Dallas, Texas
Gene W. Hewett, Vice President, Treasurer, Dallas, Texas
Herman H. Lewis, Vice President, Dallas, Texas
Clarence J. Spangler, Secretary and Assistant Treasurer
M. J. Marshall, Assistant Secretary

3. (a) Applicant's property rights.

The claims are located in what will be, when the area is surveyed, Sections 25 and 26 of T. 24 S., R. 8 E. and Section 36, T. 25 S., R. 8 E., and Section 1, T. 26 S., R. 8 E.

(b) Little Susan Mine
A & G Mine
Green Dragon Mine

(c) <u>Little Susan Group</u>

Little Susan Nos. 1, 2, and 3 are under lease. Rocky Mountain Uranium Corporation owns a 1/2 interest in such lease and is the purchaser under Contract dated August 25, 1954, of the other 1/2 interest in the lease. The Assignment of the 1/2 interest which is under Purchase Contract is presently being prepared and will be placed in escrow until additional payments have been made during the year 1955. To date more than 1/2 of the purchase price has been paid.

Cabin Nos. 1 and 2, Muddy Nos. 1, 2, 3, and 4, and Canyon Nos. 1, 2, and 3. Rocky Mountain Uranium Corporation is the owner of a 1/2 interest in these claims. It is the purchaser under contract dated August 25, 1954 of the remaining 1/2 interest in such claims. The deeds covering the 1/2 interest which is under purchase contract are presently being prepared and will be placed in escrow until additional payments have been made during the year 1955. To date more than 1/2 of the purchase price has been paid.

3. (c) Green Dragon Group

Rocky Mountain Uranium Corporation is the owner of a 1/2 interest in the Green Dragon group consisting of 48 claims as listed under Item 3.(f). It is the purchaser under contract dated August 25, 1954 of the remaining 1/2 interest in such claims. The deeds covering the 1/2 interest which is under purchase contract are presently being prepared and will be placed in escrow until additional payments have been made during the year 1955. To date more than 1/2 of the purchase price has been paid.

Fremont Group

The Fremont group is owned by Rocky Mountain Uranium Corporation under lease. Fremont Nos. 7 and 8 are located on land covered by Fremont Nos. 2, 3, 4, 5, and 6.

(d) Photostatic copies of the following instruments are attached hereto:

1. Contract dated August 25, 1954 between Howard Albrecht, Torval Albrecht and Rocky Mountain Uranium Corporation covering the Green Dragon and Little Susan groups.

2. Mining Lease dated April 24, 1954 between Tom McBroon and Torval Albrecht, Carl Albrecht, Howard Albrecht and Ben J. Dieringer covering the Little Susan Nos. 1, 2, 3.

3. Assignment of Mining Lease dated August 24, 1954 from Torval Albrecht et al to Minexco, Inc. covering Little Susan Nos. 1, 2, 3.

4. Assignment of Mining Lease dated January 18, 1955 from Minexco, Inc. to Rocky Mountain Uranium Corporation covering Little Susan Nos. 1, 2, 3.

5. Mining Lease dated June 28, 1954 between Clifton Sorenson et al and Minexco, Inc., covering Fremont Nos. 2, 3, 4, 5, 6.

6. Assignment of Mining Lease dated November 8, 1954 from Minexco, Inc. to Rocky Mountain Uranium Corporation covering Fremont Nos. 2, 3, 4, 5, 6.

(e) The 1/2 interest owned by Rocky Mountain under purchase contract on the Little Susan and Green Dragon groups is burdened by a note dated September 2, 1954 with a present balance of $84,000.00 which is payable in equal installments due June 1st, September 1st, and December 1, 1955. There are no other liens or encumbrances on the land described herein.

(f)

Name of Claim - Little Susan Group		Date Located	Emery County Book	Emery County Page
Little Susan No. 1	Notice of Location	2-10-54	J-16	493
	"	11-12-54	J-62	454
Little Susan No. 2	"	2-10-54	J-16	494
	"	11-12-54	J-62	455
Little Susan No. 3	"	2-10-54	J-16	495
	"	11-12-54	J-62	456

ROCKY MOUNTAIN URANIUM CORPORATION
901 Mercantile Commerce Building
Dallas 1, Texas

3. (f)

Name of Claim - Little Susan Group		Date Located	Emery County Book	Page
Cabin No. 1	Notice of Location	3-5-54	J-19	535
	"	6-25-54	J-25	341
	"	7-30-54	J-33	336
	"	11-12-54	J-62	471
Cabin No. 2	"	7-30-54	J-33	335
	"	11-12-54	J-62	472
Muddy No. 1	"	3-29-54	J-20	182
	"	11-12-54	J-62	464
Muddy No. 2	"	3-29-54	J-20	183
	"	11-12-54	J-62	465
Muddy No. 3	"	3-29-54	J-20	184
	"	11-12-54	J-62	466
Muddy No. 4	"	3-29-54	J-20	185
	"	11-12-54	J-62	467
Canyon No. 1	"	3-29-54	J-20	187
	"	11-12-54	J-62	468
Canyon No. 2	"	3-29-54	J-20	188
	"	11-12-54	J-62	469
Canyon No. 3	"	3-29-54	J-20	189
	"	11-12-54	J-62	470

Name of Claim - Green Dragon Group		Located	Book	Page
Green Dragon No. 1	Notice of Location	12-2-53	J-14	411
Green Dragon No. 2	"	12-2-53	J-14	412
Green Dragon No. 3	"	12-2-53	J-14	413
Green Dragon No. 4	"	12-2-53	J-14	410
Lucky Strike No. 1	"	1-28-54	J-16	9
	Amended	1-28-54	J-16	211
Lucky Strike No. 2	Notice of Location	1-28-54	J-16	10
	Amended	1-28-54	J-16	212
Lucky Strike No. 3	Notice of Location	1-28-54	J-16	11
	Amended	1-28-54	J-16	213
Lucky Strike No. 4	Notice of Location	7-21-54	J-30	140
New Strike No. 1	"	1-28-54	J-16	12
	Amended	1-28-54	J-18	504
New Strike No. 2	Notice of Location	1-28-54	J-16	13
	Amended	1-28-54	J-18	505
New Strike No. 3	Notice of Location	1-28-54	J-16	14
	Amended	1-28-54	J-18	506
	"	3-10-54	J-30	141
New Strike No. 4	Notice of Location	7-21-54	J-30	142
A & G No. 1	"	2-3-54	J-16	94
A & G No. 2	"	2-3-54	J-16	95
A & G No. 3	"	2-3-54	J-16	96
A & G No. 4	"	2-3-54	J-16	97
A & G No. 5	"	2-3-54	J-16	98
A & G No. 6	"	2-3-54	J-16	99
Lone Cedar No. 1	Notice of Location	2-5-54	J-16	209
Pinnacle No. 1	"	2-4-54	J-16	210
Pinnacle No. 2	"	2-4-54	J-16	100

2 on map as Lone Cedar

33

ROCKY MOUNTAIN URANIUM CORPORATION
1 Mercantile Commerce Building
Dallas 1, Texas

3. (f)

Name of Claim - Green Dragon Group		Date Located	Emery County Book	Page
Blue Bird No. 1	Notice of Location	1-29-54	J-16	15
	Amended	1-29-54	J-16	214
	"	1-29-54	J-30	132
Blue Bird No. 2	Notice of Location	1-29-54	J-16	16
	Amended	1-29-54	J-16	215
	"	1-29-54	J-30	133
Blue Bird No. 3	Notice of Location	1-29-54	J-16	17
	Amended	1-29-54	J-16	216
	"	1-29-54	J-30	134
A A & G No. 1	Notice of Location	2-2-54	J-16	180
A A & G No. 2	"	2-2-54	J-16	181
A A & G No. 3	"	2-2-54	J-16	182
A A & G No. 4	"	2-2-54	J-16	183
A A & G No. 5	"	2-2-54	J-16	184
New Jim	"	3-5-54	J-19	536
Cabin No. 2				
Cabin No. 3				
Erma No. 1	Notice of Location	2-2-54	J-17	36
Erma No. 2	"	2-3-54	J-17	37
Monarch No. 1	"	2-2-54	J-16	185
Monarch No. 2	"	2-2-54	J-16	186
Monarch No. 3	"	2-2-54	J-16	187
Monarch No. 4	"	2-2-54	J-16	188
Monarch No. 5	"	2-2-54	J-16	189
Last Chance No. 1	"	7-23-54	J-30	135
Last Chance No. 2	"	7-23-54	J-30	136
Last Chance No. 3	"	7-23-54	J-30	137
Last Chance No. 4	"	7-23-54	J-30	138
Last Chance No. 5	"	7-23-54	J-30	139
AAA No. 1	"	7-24-54	J-31	184
AAA No. 2	"	7-24-54	J-31	185
AAA No. 3	"	7-24-54	J-31	186
AAA No. 4	"	7-24-54	J-31	187

Name of Claim - Fremont Group		Located	Book	Page
Fremont No. 2	Notice of Location	12-8-53	J-14	419
	"	12-12-54	J-71	450
	Amended	12-12-54	J-71	445
Fremont No. 3	Notice of Location	11-29-53	J-14	418
	Amended	12-12-54	J-71	446
	Notice of Location	12-12-54	J-71	451
Fremont No. 4	Notice of Location	12-8-53	J-14	417
	Amended	12-12-54	J-71	447
	Notice of Location	12-12-54	J-71	452
Fremont No. 5	"	12-8-53	J-14	416
	Amended	12-12-54	J-71	448
	Notice of Location	12-12-54	J-71	453
Fremont No. 6	"	12-8-53	J-14	415
	Amended	12-12-54	J-71	449
	Notice of Location	12-12-54	J-71	454

4. (a) Physical description.

See Geologic Report dated May 16, 1955 prepared by Geoprofessional Services, Inc. for detailed descriptions of mining and exploration which have been and are now being conducted upon the land. See Page 2 of this report for accessibility of mine workings for examination purposes. Rocky Mountain Uranium Corporation is the 100% owner of all such operations.

The following equipment is now being used on the claims:

2 TD Drott
6 Air Compressors
1 TD 24 Tractor
11 Jack Hammers,
Jack Legs,
Water Tanks and Hose
1 International 3/4 ton pickup
1 Chevrolet - 1/2 ton
1 Jeep Station Wagon

All weather camps are maintained in the vicinity of all of the claims. Such camps consist of 6 bunk houses, two kitchens, 2 light plants with buildings, two mess halls, a 32 foot trailer, tool house, warehouse, change house and storage tanks. All housing and production facilities are owned 100% by the company.

4. (b) See Summary of Ore Sales for the period ended March 31, 1955 which is included in the Geologic Report dated May 16, 1955 prepared by Geoprofessional Services, Inc.

(c) See Geologic Report dated May 16, 1955 prepared by Geoprofessional Services, Inc.

(d) The project is approximately 75 miles from Green River, Utah. Go south from Green River 32 miles to AEC Road, turn right, go about 43 miles west. Project is approximately 75 miles from rail head. Supplies are readily obtainable at Grand Junction, Colorado and Salt Lake City, Utah. It is our understanding that a new ore buying station will be completed in Green River sometime this summer. Ore is presently being shipped to Vitro Uranium Company in Salt Lake City, Utah.

(e) 15 men are currently employed on the claims and it is apparent that manpower is readily available. Materials, supplies and equipment are obtained from Grand Junction, Colorado, and Salt Lake City, Utah. Water is hauled from Green River, Utah. Power is generated by company owned power plants.

5. (a) Uranium is the mineral for which we wish to explore.

(b) See Geologic Report dated May 16, 1955 prepared by Geoprofessional Services, Inc.

(c) The work will start immediately after this application is approved and will be completed within approximately 6 months from date of exploration project contract.

ROCKY MOUNTAIN URANIUM CORPORATION
[illegible]1 Mercantile Commerce Building
Dallas 1, Texas

5. (d) Rocky Mountain Uranium Corporation has been engaged in the exploration and development of uranium properties since May of 1954. During that period of time the company has spent approximately $[illegible]0,000 in exploration, development and for operating expenses and equipment. This figure does not include substantial amounts paid for the purchase of claims. During this time Rocky Mountain has produced and sold approximately 3500 tons of uranium ore. The average assay of such ore was in excess of .30. About December 15, 1954 the company made its first shipment from the Rainy Day No. 2 Mine in the Circle Cliffs area of Garfield County, Utah. Since that time the company has produced and sold in excess of 2,500 tons and is still mining from a continuous ore body and indications are that a very substantial amount of ore will be recovered from this mine in the future. The project will be under the full time supervision of the Geoprofessional Services, Inc. of Salt Lake City, Utah.

6. Estimate of costs.

See pages 15 through 26 of Geologic Report dated May 16, 1955 prepared by Geoprofessional Services, Inc. for estimate of cost.

7. (a) We are prepared to furnish our share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMA No. 1).

(b) Our share of the cost will be furnished in cash and to some extent by the use of our equipment which is presently on the project.

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

Defense Minerals Administration
RECEIVED
MAY 31 1955

224 New Customhouse
Denver 2, Colorado

May 26, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), Rocky Mountain Uranium Corporation, Fremont claims, Emery County, Utah

Enclosed are the original and two copies of the subject application to explore for uranium at an estimated cost of $204,075.00.

One copy of the application has been retained in this office.

Enclosures

W. M. Traver

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

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W. M. TRAVER,

Enclosures

W. M. Traver

ROCKY MOUNTAIN URANIUM CORPORATION
301 MERCANTILE COMMERCE BUILDING
RIVERSIDE-9091
DALLAS 1, TEXAS

GENE W. HEWETT
VICE PRESIDENT-TREASURER

May 24, 1955

DMEA
Date Rec'd
MAY 25 1955
BUREAU OF MINES
Denver, Colorado

Executive Officer
Defense Minerals Exploration Administration
Field Team
224 New Customhouse Building
Denver 2, Colorado

Re: DMEA Loan Application covering Uranium Properties in Emery County, Utah.

Dear Sir:

Enclosed herewith you will find four copies of Application for Aid in an Exploration Project, Pursuant to DMEA Order 1, Under the Defense Production Act of 1950, as Amended, Form MF-103 (Revised April 1952). Also enclosed with this application are four copies of Geologic Report dated May 16, 1955 prepared by Geoprofessional Services, Inc. of Salt Lake City, Utah, which cover the properties included in this application. You will note that such report includes six enclosures and that the application makes reference to such report and enclosures.

The enclosed forms were furnished by the U. S. Department of Interior, Geological Survey, at Grand Junction, Colorado, on February 2, 1955. The filing of this report has been delayed due to adverse weather conditions which affected the preparation of the Geologic Report by Geoprofessional Services, Inc. We are quite anxious to continue our exploration program and your early consideration of this application will be sincerely appreciated.

Kindly acknowledge the receipt of this application.

Yours very truly,

Gene W. Hewett

Gene W. Hewett

GWH/mjm

Encls. (in quad.)
Form MF-103
6 Legal Instruments
Little Susan & Fremont Map
Green Dragon Map
Geologic Report

Rocky Mountain Uranium Corporation
301 Mercantile Commerce Building
Dallas 1, Texas

ROCKY MOUNTAIN URANIUM CORPORATION
301 Mercantile Commerce Building
Dallas 1, Texas

August 25, 1954

Messrs. Howard Albrecht and Torval Albrecht
Salina, Utah

Minerals Administration
RECEIVED

Gentlemen:

This letter will confirm the ORIGINAL agreement between yourselves, as Sellers and Rocky Mountain Uranium Corporation ("Rocky Mountain"), as Buyers, in which you agree to sell and Rocky Mountain agrees to buy your interest in and to approximately sixty (60) uranium mining claims situated in Emery County, Utah, designated as the Green Dragon Group and the Little Susan Group (hereinafter called the "claims"), in which claims you represent that you own a fifty (50%) per cent interest and Minexco, Inc. (N.S.L.) owns a fifty (50%) per cent interest.

Sellers shall convey to Rocky Mountain all of their interest in the claims subject to a royalty reserved to Sellers of six and one-quarter per cent (6¼%) of one hundred per cent (100%) of the ores mined and sold by Rocky Mountain from all of the claims except the four (4) claims leased from Tom McBroom in the Green Dragon Group and the three (3) claims leased from Tom McBroom in the Little Susan Group, as to which the royalty reserved to Sellers shall be one and one-quarter per cent (1¼%) of one hundred per cent (100%) of the ores mined and sold from such claims. It is agreed and understood that the royalty payments shall apply on all ores and valuable substances mined and sold from the claims for which payment is received by Rocky Mountain including production bonus payments from the Atomic Energy Commission, but shall not include haulage and development allowances paid on uranium ores.

Rocky Mountain shall perform all of the covenants and obligations of the lessees in the mining leases from Tom McBroom to Torval Albrecht, et al, covering the seven claims referred to above.

Royalty payments are to be made on or before the tenth day of each month for all ores or valuable substances sold on which payment has been received by the end of the preceding month.

As consideration for the conveyance of the interest sold by Sellers to Rocky Mountain, Rocky Mountain shall pay to sellers the sum of two hundred thousand dollars ($200,000.00), payable as follows:

(1) $29,000.00 upon the execution of this agreement;
(2) $29,000.00 on or before November 15, 1954;
(3) $30,000.00 on or before January 10, 1955;
(4) Four payments of $28,000.00 each on or before each of the following dates: March 1, 1955; June 1, 1955; September 1, 1955; and December 1, 1955; the obligation for said four payments to be represented by promissory notes dated the date of acceptance of this agreement and bearing interest at the rate of five per cent (5%) per annum.

Upon payment by Rocky Mountain of all sums due to Sellers under this agreement, Sellers shall deliver to Rocky Mountain assignments to their interests in a form approved by attorneys for Rocky Mountain.

Agreement between Messrs Howard Albrecht and Torval Albrecht and Rocky Mountain Uranium Corporation, page two, August 25, 1954

It is expressly understood that Sellers do not warrant title to their interests in the subject claims.

If this letter sets forth your understanding of our agreement, please signify your acceptance in the spaces provided below, and return two (2) signed copies of this letter to us at the above address.

Very truly yours,

ROCKY MOUNTAIN URANIUM CORPORATION

By _____
Critchell Parsons, President

Accepted this 2 day
of Sept, 1954

By Howard Albrecht
Howard Albrecht

By Torval Albrecht
Torval Albrecht

STATE OF UTAH |
| ss
COUNTY OF EMERY |

Before me the undersigned authority personally appeared Howard Albrecht and Torval Albrecht who declared that they have executed the above document, and acknowledge the same to be their act and deed.

Subscribed and sworn to before me this 2nd day of September, 1954, to certify which witness my hand and seal of office.

B. J. Dieringer
B. J. Dieringer, Notary Public

STATE OF UTAH |
| ss.
COUNTY OF EMERY |

Before me the undersigned authority on this day personally appeared Critchell Parsons, known to me to be the said persons, who declared to me that he has executed the above document as the president of Rocky Mountain Uranium Corporation, and acknowledged the same to be the act and deed of said corporation.

Subscribed and sworn to before me this 2nd day of September, 1954, to certify which witness my hand and seal of office.

B. J. Dieringer
B. J. Dieringer, Notary Public

91267 Recorded at request of Howard Albrecht Fee Paid $3.30
Date June 4, 1954 9:30 A. Nellie B. Young Recorder Emery Coun
By Deputy Book J-23 Page 122

Rocky Mountain Uranium Corporation
301 Mercantile Commerce Building
Dallas 1, Texas

MINING LEASE

THIS LEASE, made and entered into by and between TOM Mc BROOM, hereinafter refered to as First Party and TORVAL ALBRECHT, CARL ALBRECHT, HOWARD ALBRECHT and BEN J. DIERINGER, hereinafter referred to as Second Parties,

W I T N E S S E T H:

That whereas First Party has filed on three mining claims known as Little Susan, being located on the west of the Muddy River in the lower Sen Bad, about one and one half air line miles northwest of Pick's Mine in Emery County, Utah, said claims having been recorded on the 16th day of February, 1954, in Book "J-16" at pages 493, 494 and 495 as file Nos. 86896, 86897 and 86898 respectively, in the Emery County Recorder's Office; and

Whereas, it is believed by the parties hereto that the claims contain uranium bearing ores; and

Whereas, Second Parties are desirous of leasing the above described Little Susan Properties, and First Party is willing to grant such lease;

Now, Therefore, in consideration of the mutual agreements and covenants herein contained, it is agreed by and between the parties hereto as follows:

1. First Party hereby leases tp Second Parties all of the mining property described hereinabove and grants and conveys to Second Parties the exclusive right and privelege of mining and removing any and all mineral bearing ores under, upon or from said mentioned property to any extent and in any manner desired by Second Parties, allowing and permitting said Second Parties to occupy said mining property and to mine said premises in a workmanlike manner using customery mining practices.

2. Second Parties agree that work on the road leading to said claims shall begin within forty five days from date of this Lease and work on the mining operations shall start within sixty days from date of this Agreement. It is further agreed by Second Parties that they will work said claims to an extent sufficient to satisfy both Parties that said mining claims either do or do not have valuable ore shipping possibilities.

3. The term of this lease shall be for a period of Five years with option to renew for an additional four five year periods by giving notice in writing to First Party in advance, at least sixty days prior to expiration of each five year period-total renewal period is twenty(20) years.

4. It is agreed and understood that First Party shall receive ten (10) per cent of the net mill returns on all minerals, earth or other substances removed from said property and which are sold. If arrangements can be made said ten per cent will be paid directly to First Party and Ninety per cent to Second Parties by buyer of any ores sold.

5. All buildings or improvements erected or maintained on said property and all equipment installed upon or beneath said premises by Second Parties shall be deemed to be and remainthe personal property of Second Parties. In event of termination of this lease for any reson provided herein then Second Parties have the right to remove all equipment, buildings, tools, supplies and machinery within ninety days after termination of this lease.

6. Second Parties are granted right to work and develop the property in any manner whatsoever incident to general mining operations and shall keep the property free from liens for work done or labor performed or for equipment or materials furnished in connection with mining operations carried on.

7. First Party reserves the right to cancel this lease for default by giving Second Parties 60 days notice in writing, computed from date of mailing however, if the default is corrected within this period this lease continues in good standing. Second Parties reserve the right to cancel this lease by giving First Party 60 days notice in writing prior to the end of any calender year, computed from date of mailing.

8. Second Parties agree to perform all assessment work necessary and shall report as requested by First Party the status of said assessment work.

Continued on reverse of this page.

9. It is agreed and understood that Second Parties will pay all taxes except land taxes which will be paid by First Party.

10. THIS LEASE IS BINDING ON ALL HEIRS ADMINISTRATORS AND ASSIGNS

IN WITNESS WHEREOF, the parties hereunto have affixed their signatures this 24 day of April 1954.

Tom McBroom
TOM MC BROOM
First Party

Torval Albrecht
TORVAL ALBRECHT

Howard Albrecht
HOWARD ALBRECHT

Carl R Albrecht
CARL ALBRECHT

Ben J. Dieringer
BEN J. DIERINGER
SECOND PARTIES

B. J. DIERINGER NOTARY PUBLIC COMMISSION EXPIRES STATE OF UTAH

Subscribed and sworn or affirmed to before me this 24 day of April 1954

B.J. Dieringer, Notary Public.

On April 29, 1954 before me a Notary Public in and for Uinta Col, state of Wyoming, personally appeared before me Carl Albrecht and acknowledged his signature on the above instrument.

Elva M. Clark
Notary Public.

My Commission expires Feb. 6, 1955.

Rocky Mountain Uranium Corporation
301 Mercantile Commerce Building
Dallas 1, Texas

ASSIGNMENT OF MINING LEASE

THIS AGREEMENT, made and entered into this 24 day of August, 1954, by and between TORVAL ALBRECHT and ELNORE R. ALBRECHT, his wife, HOWARD ALBRECHT and VELMA F. ALBRECHT, his wife, CARL R. ALBRECHT and MARIAN B. ALBRECHT, his wife, and BEN J. DIERINGER and LaRUE DIERINGER, his wife (hereinafter referred to as "ASSIGNORS"), First Parties, and MINEXCO, INC., a New Mexico corporation, duly qualified to do business in the State of Utah (hereinafter referred to as "ASSIGNEE"), Second Party,

W I T N E S S E T H:

RECITALS:

Under date of February 10, 1954, Tom McBroom located the following named lode mining claims (hereinafter referred to as the "subject claims"), situate in Unorganized Mining District, Emery County, Utah, to-wit:

Name of Claim	Notice of Location Recorded		
	Date	Book	Page
Little Susan No. 1	2/16/54	J-16	493
Little Susan No. 2	2/16/54	J-16	494
Little Susan No. 3	2/16/54	J-16	495

Under date of April 24, 1954, said Tom McBroom, as locator, owner and Lessor, entered into a Mining Lease with said Torval Albrecht, Howard Albrecht, Carl Albrecht and Ben J. Dieringer, as Lessees, covering the subject claims and reserving to said Lessor a royalty of Ten (10%) percent. Said Lease was recorded June 4, 1954 in Book J-23, page 122, records of said County and State.

Assignors desire to transfer and assign to Assignee an undivided 50% interest in all rights and benefits under said mining lease free of said 10% royalty interest reserved to the Lessor thereunder, said reserved 10% royalty interest in its entirety to remain as a burden and charge against the remaining 50% interest in said Lease being retained by Assignors.

NOW, THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other good, valuable and adequate consideration in hand paid by Assignee to Assignors, receipt whereof is hereby acknowledged, Assignors do hereby assign, sell, transfer and set over unto said Minexco, Inc., Assignee herein, an undivided Fifty Percent (50%) interest in, to and under said Mining Lease of April 24, 1954, and in and to all rights and interests thereunder as to the property covered thereby.

Assignors warrant that their rights under said Mining Lease and the undivided Fifty Percent (50%) interest assigned hereby, are not subject to any prior sale, assignment, burden or encumbrance whatsoever made or created by any act or instrument of Assignors.

Assignors agree that all royalties reserved to Lessor under and according to said Mining Lease of April 24, 1954, shall be payable by Assignors and shall be paid by Assignors and shall, in their entirety, constitute a charge and burden against the undivided 50% interest in, to and under said Lease, which is retained by Assignors. Assignors agree that no part or portion of said reserved royalties shall be payable by Assignee or shall, as between the parties hereto or their respective successors or assigns, constitute a charge or

Reference Minerals
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burden against the undivided 50% interest in said Lease hereby assigned. Assignors agree to save Assignee harmless of and from any and all obligations with respect to the said royalties reserved under and according to said terms of this lease and agree to reimburse ssignee ~~Assignors~~ and their successors in interest for any and all sums which ssignee ~~Assignors~~ may be compelled to pay by reason of the royalty reservation in said lease, in order to maintain and protect said Lease and Assignee's rights therein and thereunder.

IN WITNESS WHEREOF, the parties hereto have set their hands as of the day and year first above written.

"ASSIGNORS"

Torval Albrecht

Elnore R. Albrecht

Howard Albrecht

Velma F. Albrecht

Carl R. Albrecht

Marian B. Albrecht

Ben J. Dieringer

Ben J. Dieringer

LaRue Dieringer

LaRue Dieringer

"ASSIGNEE"

MINEXCO, INC.,

Attest:

By

Secretary

STATE OF UTAH)
: SS.
COUNTY OF)

On the day of , 1954, personally appeared before me

signers of the above instrument, who duly acknowledged to me that

3-

they executed the same.

Notary Public,
Residing at:

My commission expires:

STATE OF UTAH)
: SS.
COUNTY OF)

On the day of , 1954, personally appeared before me

the signers of the above instrument, who duly acknowledged to me that they executed the same.

Notary Public,
Residing at:

My commission expires:

STATE OF NEW MEXICO)
: SS.
COUNTY OF)

On the day of , 1954, personally appeared before me , who being by me duly sworn did say that he is the of MINEXCO, INC., and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution of its board of directors and said duly acknowledged to me that said corporation executed the same and that the seal affixed is the seal of said corporation.

Notary Public,
Residing at:

My commission expires:

-4

Rocky Mountain Uranium Corporation
301 Mercantile Commerce Building
Dallas 1, Texas

ASSIGNMENT OF MINING LEASE

THIS ASSIGNMENT, made and entered into as of the 16th day of January, 1955, between CRITCHELL PARSONS, GENE W. HEWETT, W. R. GIBSON, CLARENCE J. SPANGLER, M. J. MARSHALL, P. G. SMITH, and LAWRENCE G. HUMPHREY, as the sole surviving officers and directors and as trustees for and on behalf of the stockholders of MINEXCO, INC., a corporation organized under the laws of the state of New Mexico, Assignors, and ROCKY MOUNTAIN URANIUM CORPORATION, a Delaware corporation duly authorized to do business in the State of Utah, Assignee.

W I T N E S S E T H:

RECITALS:

Under date of April 24, 1954, Tom McBroon, as Lessor, entered into a Mining Lease with Torval Albrecht, Howard Albrecht, Carl R. Albrecht, and Ben J. Dieringer, as Lessees, which Lease, recorded June 4, 1954, in Book J-23, page 122, records of Emery County, Utah, covers the following described mining claims situate in said County and State, to-wit:

NAME OF CLAIM	ORIGINAL NOTICE OF LOCATION RECORDED	
	Book	Page
Little Susan No. 1	J-16	493
Little Susan No. 2	J-16	494
Little Susan No. 3	J-16	495

Under date of August 24, 1954, said Torval Albrecht, Howard Albrecht, Carl R. Albrecht, and Ben J. Dieringer and their respective spouses, as Assignors, assigned to MINEXCO, INC., as Assignee, an undivided fifty percent (50%) interest in all rights and interests under said Mining Lease of April 24, 1954, which interest as so assigned was free of the ten percent (10%) royalty interest reserved by the Lessor under said Lease, said reserved ten percent (10%) royalty interest remaining in its entirety as a burden and charge against the remaining fifty percent (50%) interest in said Lease which was retained by said Assignors.

NOW, THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other good valuable and adequate consideration in hand paid by ROCKY MOUNTAIN URANIUM CORPORATION to Assignors herein, receipt is hereby acknowledged, Assignors do hereby SELL, TRANSFER, and SET OVER unto ROCKY MOUNTAIN URANIUM CORPORATION, Assignee, said fifty percent (50%) interest into and under said Mining Lease of April 24, 1954, acquired as aforesaid, and in and to all rights and interests thereunder as to the property covered thereby EXPRESSLY SUBJECT, HOWEVER, to that certain conveyance of royalty interest dated October 12, 1954, and recorded October 18, 1954, in Book J-57, pages 80-2, records of said County and State, under which a royalty interest aggregating one and one quarter percent ($1\frac{1}{4}$%) of the ore or ores mined from the said hereinabove described mining claims was conveyed to those individuals and in those proportions more particularly set out in said instrument of conveyance.

IN WITNESS WHEREOF, these presents are executed as of the day and year first above written.

Critchell Parsons

Gene W. Hewett

W. R. Gibson

Clarence J. Spangler

M. J. Marshall

P. G. Smith

Lawrence G. Humphrey

STATE OF New Mexico)
: ss.
COUNTY OF San Juan)

On the 29th day of April, 1955, personally appeared before me W.R. Gibson and Lawrence G.Humphrey, the signers of the above instrument, who duly acknowledged to me that they executed the same as the sole surviving officers and directors and as trustees for and on behalf of the stockholders of Minexco, Inc.

Notary Public
Residing at: Farmington,N.M.

My commission expires:

March 2,1959

STATE OF TEXAS)
: ss.
COUNTY OF DALLAS)

On the 18TH day of May, 1955, personally appeared before me Critchell Parsons, Gene W. Hewett, Clarence J. Spangler, M. J. Marshall and P. G. Smith, the signers of the above instrument, who duly acknowledged to me that they executed the same as the sole surviving officers and

directors and as trustees for and on behalf of the stockholders of Minexco, Inc.

Lay Fern Callaway
Notary Public
Residing at: Dallas, Texas

My commission expires:

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Rocky Mountain Uranium Corporation
611 Mercantile Commerce Building
Dallas 1, Texas

FEE 11.00
BOOK 71 PAGE 67-76
DEC 11 11 56 AM '54
YOUNG
COUNTY

MINING LEASE

THIS LEASE made and entered into as of the 28th day of June, 1954, by and between CLIFTON SORENSON and LoRee SORENSON, his wife, VANCE TAYLOR and VaNeil TAYLOR, his wife, R. J. BRINKERHOFF (also known as Royal Brinkerhoff) and Beatrice BRINKERHOFF, his wife, EVAN TAYLOR and Verla TAYLOR, his wife, DON E. TAYLOR (also known as Don Taylor) and Afton TAYLOR, his wife, and DAVID TAYLOR and Anna TAYLOR, his wife, as LESSORS, and MINEXCO, INC., a New Mexico corporation duly qualified to do business in the State of Utah, as LESSEE,

W I T N E S S E T H:

In consideration of the sum of ~~Ten Dollars~~ ($~~10.00~~) Six Thousand Dollars ($6000.00) in hand paid by Lessee to Lessors, receipt whereof is hereby acknowledged, and of the rents and royalties hereinafter reserved and the covenants and agreements hereinafter expressed by the Lessee to be faithfully kept and performed, the parties hereto mutually and severally covenant and agree as follows:

I

RIGHTS GRANTED TO LESSEE

Lessors do hereby demise, let and grant to Lessee the exclusive right and privilege to mine and dispose of all uranium, thorium, vanadium and other fissionable source materials and all associated and related minerals (hereinafter referred to as the "leased deposits") in, upon or under the following described mining claims and mining property (hereinafter for convenience referred to as the "leased premises"), together with the improvements thereon and incident thereto, situate in Unorganized Mining District (Muddy River Area) Emery County, State of Utah, to-wit:

NAME OF CLAIM	LOCATION NOTICE RECORDED Date	Book	Page
Fremont No. 2	12/8/53	J-14	419
Fremont No. 3	12/8/53	J-14	418
Fremont No. 4	12/8/53	J-14	417
Fremont No. 5	12/8/53	J-14	416
Fremont No. 6	12/8/53	J-14	415

TOGETHER WITH all and singular the tenements, hereditaments and appurtenances thereunto belonging or in any wise appertaining, and together with all dips, spurs and leased-deposit minerals therein contained and thereunto appertaining, and together with any and all other property and all rights, real, personal or mixed, in, upon or appertaining to any of the mining claims or premises hereinabove described; and TOGETHER WITH any and all preferences, priorities, rights, and privileges as to the obtaining of Uranium Mining Leases or otherwise, which may have accrued or which may hereafter accrue to Lessors as to the leased premises under or by virtue of any Uranium Mining Lease, Application or matter or thing.

TO HAVE AND TO HOLD unto the said Lessee for a term of five (5) years from the date hereof, subject to the performance by Lessee of the conditions, covenants and agreements by it to be kept and performed.

II

OPERATIONS

Lessee shall enter upon the leased premises and conduct mining operations thereon, mine, remove and sell leased-deposit ores therefrom with due regard to the development and preservation of same as a workable mine and in keeping with the mining laws of the State of Utah and of the United States and the applicable rules and regulations thereunder.

III

RENTALS

Commencing June 28, 1955, Lessee shall, on the 28th day of June of each year, pay Lessors, as advance annual rental for the leased premises, a sum equal to FIVE DOLLARS ($5.00) per claim for the mining claims then remaining subject to this lease. It is expressly understood and agreed that the rental so paid for any lease year shall apply toward and shall be credited on any royalties payable, as hereinafter set out, on production during such lease year. No such credit arising out of the payment of annual rental for any lease year shall be carried beyond the end of the lease year for which such rental was paid.

In the event of termination of this lease for any reason, Lessors shall be under no liability or obligation whatever to Lessee with respect to any unused rental credit arising as aforesaid.

All payments of rental hereunder by Lessee to Lessors shall be made as hereinafter provided in Section XIX.

IV

ROYALTIES

Lessee shall pay to Lessors on all leased-deposit ores

extracted and shipped or sold from the leased premises, a royalty of twelve and one-half percent (12½%). The term "twelve and one-half percent (12½%) royalty interest" as used herein shall mean that the holder of such royalty interest shall be entitled to twelve and one-half percent (12½%) of the gross returns from the sale of all leased deposits, minerals or ores extracted hereunder from the leased premises, PROVIDED EXPRESSLY, that no exploratory or development allowance which shall be paid to Lessee by any governmental agency as to the property embraced in said mining claims shall be deemed to constitute a portion of the gross purchase price for the purpose of determining royalties reserved hereunder but any premium or bonus payments paid to Lessee in connection with the production and sale of minerals and ores produced from said mining claims, and based upon the quantity and/or quality of the minerals and ores so produced, shall be deemed as part of the gross purchase price in the computation of royalties to the extent that payment of royalties on such bonus or premium payments is not contrary to law or government regulations.

V

STATEMENTS TO BE FURNISHED

Lessee shall on or before the 20th day of each lease month hereof during which royalties are payable to Lessors hereunder, furnish Lessors with a written report showing, as to the shipments with respect to which such royalties are so payable, the tonage of ore extracted and shipped or sold, the royalty payable thereon and any rental credits applied; and also showing, as to the shipments made during such preceeding month, as to which Lessee shall not have received settlement during said preceeding month, the total tonage of ore shipped.

VI

BOOKS AND RECORDS

Lessors and their authorized agents shall at any and all reasonable times be permitted to inspect all books and records of Lessee relating to the leased premises in order to assertain the correct amount of royalty due Lessors, or to determine whether or not the provisions of the Lease are being complied with.

VII

LESSORS' RIGHTS OF INSPECTION

Lessee shall allow Lessors and their agents from time to time to enter upon and into all parts of the leased premises for purposes of inspection at such reasonable times as shall not interfere with the regular operations of the leased premises. It is understood and agreed that Lessee shall assume no responsibility for Lessors or their agents when and while on the leased premises for such purposes.

VIII

ORES NOT TO BE CO-MINGLED

Lessee shall not mix any ores from the leased premises with the ores,

minerals or products therefrom derived from any other property.

IX

STATE AND FEDERAL ENACTMENTS - INDEMNIFICATION OF LESSORS

Lessee, in its operations hereunder shall be subject to all Federal enactments and laws of the State of Utah and all Federal and State rules and regulations regarding Employees' Liability, Workmen's Compensation, and Workmen's Old Age and Unemployment Insurance, and Lessee covenants and agrees to indemnify and hold harmless Lessors from and against the payment of any and all damages, claims, costs and expenses due to the existence of such enactments and from and against any and all claims, costs and expenses in connection therewith under any claim of subrogation provided for by said enactments or otherwise; and Lessee shall further indemnify and hold harmless Lessors from and against any and all damages, claims, costs and expenses arising out of damage to property or any injuries to or death of Lessee's employees or any other person whomsoever, other than Lessors and those acting under them, where such injury, death or damage occurs because of or in connection with the use, operation or development in any manner of the leased premises, whether such claims are based upon a right conferred by common law or by Statute.

X

PROPERTY TO BE KEPT FREE OF LIENS

Lessee shall pay and satisfy all claims for materials, supplies and labor in connection with mining and development operations on the leased premises and shall keep said premises free of liens or encumberances of any and every kind, except such as might result from tax assessments not required to be paid by Lessee or such as might result from the acts of others than the Lessee, its employees or those in privity with it.

XI

NOTICES

Lessee shall keep posted in conspicuous places about the leased premises such notices as will inform whom it may concern that said premises are operated under a Lease and that Lessors shall not be liable for any of the expenses or charges of the operations.

XII

TAXES

Lessors shall pay all State and County Taxes of any kind assessed again st Lessors on account of their receipt of rentals and royalties herein provided to be paid to them by Lessee. Lessee shall pay all State and County Tax Assessments upon the leased premises including improvements, machinery, equipment, tools, supplies and personal property whatsoever placed upon the leased premises by Lessee.

XIII

WARRANTY OF TITLE

Lessors represent and covenant that they are the owners of all rights in, to and under the above named mining claims and that their rights thereunder are not subject to any prior agreement, encumberance, burden or restriction created by any act or instrument of Lessors or

DEPARTMENT OF THE INTERIOR
Bureau Minerals Administration
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any of them.

XVI

PROTECTION AGAINST LIEN ARISING THROUGH LESSORS' DEFAULT

In the event there are any liens or encumberances against said leased premises or in the event any liens or encumberances shall hereafter accrue against the same by acts or neglect of Lessor, then Lessee may at its option pay and discharge the same, and if it elects to do so then Lessors agree to repay Lessee upon demand all such sums so paid by it, together with interest thereon from the date of payment of said sums at the rate of eight percent (8%) per annum until repaid.

XV

LESSEE'S RIGHT OF SURRENDER

It is mutually understood and agreed that Lessee may at any time surrender and terminate this Lease upon giving thirty (30) days notice in writing, paying to Lessors all rents, royalties and other sums due and payable to the Lessors to the effective date of such surrender, and complying with the terms of this Lease with respect to the preservation and protection of workings upon the leased premises.

XVI

FORFEITURE AND SURRENDER

This Lease is made upon the condition that Lessee shall perform all the covenants and agreements herein set forth to be performed by it, and if at any time Lessee shall fail for a period of thirty (30) days to make any payment due hereunder within thirty (30) days from the date when payable or if there shall be any other default on the part of Lessee due to other than acts of God, strikes, lock-outs, storms, floods, public enemy or any other cause beyond the reasonable control of Lessee, whether similiar to the matters herein specifically enumerated or not, and if such other default shall continue for a period of thirty (30) days after written notice of such other default being given to Lessee, then and in either of said events, this Lease shall terminate and the leased premises shall revert to the Lessors and Lessee shall deliver said premises to the Lessors.

XVII

WORK REQUIREMENTS

Lessee agrees to commence prospecting, development or mining operations on said leased premises on or before September 1, 1954, and to continue such operations, during the life of this Lease or any extension thereof, in a diligent and minerlike fashion. It is expressly understood and agreed that Lessee shall have the right and privilege to suspend such prospecting, development or mining operations on said leased premises at any time within any lease year or years for a maximum of ~~three~~ (2) separate non-consecutive thirty (30) day periods (each thirty (30) day period being hereinafter referred to as a "non-operating period"). Each such non-operating period may at

Two WRA VAA

option of Lessee, be for a period of thirty (30) consecutive days during which time Lessee shall be relieved of all obligations hereunder with respect to the conducting of prospecting, development or mining operations, Provided, however, that the provisions of this Section shall not relieve Lessee of the obligation to pay rentals and to pay royalties, if any, accrued and payable to Lessors for minerals and ores extracted and produced from the leased premises which are shipped and sold during such non-operating period or any extension thereof as hereinafter provided. Lessee shall, not later than fifteen (15) days prior to the suspension of such operations, mail a written notice addressed to Lessors, in the manner provided in Section XIX, expressing its intention to suspend prospecting, development and mining operations and stating the date upon which it intends to so suspend operations. In the event Lessee, after having given written notice of its intention to suspend operations as herein provided, renews prospecting, development or mining operations prior to the expiration of the thirty (30) day non-operating period, such period of non-operation shall nevertheless be considered as one (1) of the ~~three~~ [redacted] (2) such non-operating periods allowed under the provisions of this Section. In the event Lessee shall not commence operations at the expiration of any non-operating period, Lessee shall have the right to pay to Lessor a sum of Ten Dollars ($10.00) per day for each day in excess of said thirty (30) day non-operating period until such operations are recommenced. The payment by Lessee to Lessor of the Ten Dollars ($10.00) per day penalty for the extension of any non-operating period shall be in lieu of actual performance of work during such extension or extensions.

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XVIII

REMOVAL OF EQUIPMENT

It is mutually understood and agreed that in case of forfeiture, surrender or other termination of this Lease all underground timber, shafts, linings and other fixtures necessary for the preservation of any mines upon or in the leased premises shall be and remain a part of the realty and shall revert to the Lessors without further consideration or compensation.

It is further understood and agreed that all personal property of the Lessee located within the leased premises and all buildings, machinery, equipment and tools (other than the fixtures to become the property of the Lessors as hereinabove in this paragraph provided) shall, in the case of forfeiture, surrender or other termination of this Lease, remain upon the leased premises and be

held as a guarantee in lieu of bond until all terms of this Lease with respect to payment of rentals and royalties and the preservation of the property shall have been complied with. Upon such compliance with and performance of such conditions and obligations, the Lessee shall be entitled to, and may, within ninety (90) days after termination of this Lease or within such extension of time as may be granted by the Lessors, remove from the leased premises such personal property and improvements, other than those items not to remain the property of the Lessors as above provided.

XIX

NOTICES - PAYMENTS

Any notice contemplated herein to be served upon the Lessee shall be in writing and shall be sufficiently given if deposited in the United States Mail, postage prepaid and registered and addressed to Lessee as follows, or at such other address as Lessee may from time to time in writing designate:

Minexco, Inc.
302 West Main Street
Farmington, New Mexico

Any notice contemplated herein to be served upon the Lessors shall be in writing and shall be sufficiently given if deposited in the United States Mail, postage prepaid and registered and addressed to Lessors as follows, or at such other address as the Lessors may from time to time in writing designate:

Service of notice by mail shall be deemed effective and complete upon the date of posting and mailing in accordance herewith.

It is understood and agreed that personal service upon either party shall be deemed sufficient service of notice and no mailing of notice in the case of personal service shall be necessary.

All payments specified to be made hereunder (whether royalties, rentals or otherwise) by Lessee to Lessors shall be made by deposit thereof to the credit of , as agent for Lessors, or their assigns in or such other bank as Lessors may designate from time to time by written notice to Lessee.

XX

LESSEE'S OPTION OF RENEWAL

In consideration of the foregoing lease, and the expenditures to be made under said lease by said Lessee, Lessors hereby grant to Lessee the right and option, by written notice given by Lessee to Lessors at any time within six (6) months prior to the termination of the original five (5) year term of this Lease, to extend and renew this Lease for a further and

additional term of five (5) years, PROVIDED that this Lease shall not have been sooner terminated in any manner and for any reason.

XXI

ASSIGNMENT

The provisions hereof shall inure to the benefit of and shall be binding upon the successors in interest, legal representatives and assigns of the respective parties hereto, but no party hereto shall be chargeable with notice of any assignment or conveyance until such party shall have been furnished with written notice thereof and with a duplicate, certified or photostat copy of the instrument of assignment or conveyance.

IN WITNESS WHEREOF the parties hereto have executed these premises as of the day and year first above written.

"LESSORS"

Clifton Sorenson

Clifton Sorenson

Loree Sorenson

LOREE Sorenson

Vance Taylor

Vance Taylor

Va Neil Taylor

Taylor

R. J. Brinkerhoff

R. J. Brinkerhoff (also known as Royal Brinkerhoff)

Beatrice Brinkerhoff

Brinkerhoff

Evan Taylor

Evan Taylor

Verla E. Taylor

Taylor

Don E. Taylor

Don E. Taylor (also known as Don Taylor)

Afton Taylor

Taylor

David Taylor
David Taylor

Anna Taylor
Taylor

"LESSEE"

MINEXCO, INC.

Attest:

Laurence G. Humphrey
Secretary

By W.R. Gibson
President

STATE OF)
: ss.
COUNTY OF)

On the 8 day of November, 1954, personally appeared before me Laurence G Humphrey & W. R. Gibson

signers of the above instrument, who duly acknowledged to me that they executed the same.

Claire D Campbell
Notary Public
Residing at:

My commission expires: 7/3/56

STATE OF Utah)
: ss.
COUNTY OF Wayne)

On the 15th day of August, 1954, personally appeared before me Clifton Sorenson and Lo Ree Sorenson, his wife; Vance Taylor and VaNeil Taylor, his wife; R. J. Brinkerhoff and Beatrice Brinkerhoff, his wife; Evan Taylor and Verla E. Taylor, his wife; Don E. Taylor and Afton Taylor, his wife; and David Taylor and Anna Taylor, his wife,

signers of the above instrument, who duly acknowledged to me that they executed the same.

Norma Blackham
~~Notary Public~~ County Clerk
Residing at: Loa, Utah

~~My commission expires:~~

STATE OF)
: ss.
COUNTY OF)

On the day of , 1954, personally appeared before me

signers of the above instrument, who duly acknowledged to me that they executed the same.

Notary Public
Residing at:

My commission expires:

STATE OF NEW MEXICO)
COUNTY OF ~~New~~ San Juan) ss.

On the 30th day of November, 1954, personally appeared before me W. R. Gibson, who being by me duly sworn did say that he is the President of MINEXCO, INC., and that the within and foregoing instrument was signed in behalf of said corporation by authority of a resolution of its board of directors and said W. R. Gibson duly acknowledged to me that said corporation executed the same and that the seal affixed is the seal of said corporation.

Louise A. De Weese
Notary Public
Residing at:

My commission expires:
Sept 15, 1957.

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Rocky Mountain Uranium Corporation
301 Mercantile Commerce Building
Dallas 1, Texas

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BOOK 9-71 PAGE 77-78
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INC
COUNTY

ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS, that

WHEREAS, under date of June 28, 1954, Clifton Sorenson and Lo Ree Sorenson, his wife, Vance Taylor and Va Neil Taylor, his wife, R. J. Brinkerhoff (also known as Royal Brinkerhoff) and Beatrice Brinkerhoff, his wife, Evan Taylor and Verla Taylor, his wife, Don E. Taylor (also known as Don Taylor) and Afton Taylor, his wife, and David Taylor and Anna Taylor, his wife, as LESSORS, executed and delivered to Minexco, Inc., a New Mexico Corporation, duly qualified to do business in the State of Utah, as LESSEE, a Mining Lease covering the hereinafter described mining claims and mining property, which Lease is for a term of five (5) years from the date thereof, subject to the performance by said Lessee of the conditions, covenants and terms therein contained; and

WHEREAS, said Mining Lease of June 28, 1954, covered the following described mining claims and mining property together with improvements thereon and incident thereto, situate in Unorganized Mining District (Muddy River Area), Emery County, Utah, to-wit:

NAME OF CLAIM	LOCATION DATE	NOTICE BOOK	RECORDED PAGE
Fremont No. 2	12/8/53	J-14	419
Fremont No. 3	12/8/53	J-14	418
Fremont No. 4	12/8/53	J-14	417
Fremont No. 5	12/8/53	J-14	416
Fremont No. 6	12/8/53	J-14	415

NOW, THEREFORE, in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration in hand paid, receipt whereof is hereby acknowledged, said Minexco, Inc., whose address is 302 West Main, Farmington, New Mexico, ASSIGNOR, does hereby sell, assign, transfer and set over unto Rocky Mountain Uranium Corporation, 301 Mercantile Commerce Building, Dallas, Texas, ASSIGNEE, all and whatsoever its rights, titles, claims and interests in, to and under said Mining Lease and in, to and under the mining properties covered thereby. Said ASSIGNOR warrants that the rights under said Mining Lease acquired by it as aforesaid are not subject to any prior sale, assignment, burden, restriction or encumberance whatsoever made or created by any act or instrument of ASSIGNOR.

IN WITNESS WHEREOF, these presents are executed this 8th day of November, 1954.

MINEXCO, INC.

ATTEST:

Lawrence E. Humphrey
Secretary

By W. R. Gibson
President

"ASSIGNOR"

18

STATE OF NEW MEXICO)
) ss.
COUNTY OF SAN JUAN)

On this 8th day of November, 1954, before me personally appeared W. R. Gibson, to me personally known, who being by me duly sworn did say that he is the President of Minexco, Inc., (N.S.L.), a corporation organized under the laws of the State of New Mexico, and that the seal affixed to said instrument was signed and sealed in behalf of said corporation, by authority of its board of directors, and said W. R. Gibson, acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and seal the day and year last above written.

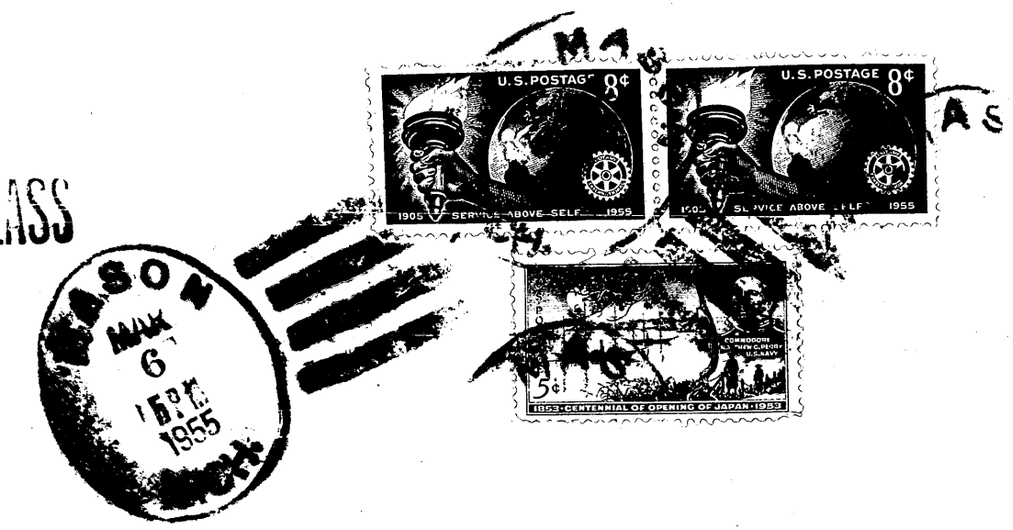
James L. Brown
Notary Public

My commission Expires:
3/15/55

THE FERRIS CO. INC.
MASON MICHIGAN
Phone 27703

21

FIRST CLASS



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FIRST CLASS

Rocky Mountain Uranium Corporation
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GEOLOGIC REPORT ON

PROPERTIES OF

ROCKY MOUNTAIN URANIUM CORPORATION

GEOPROFESSIONAL SERVICES, Inc.

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
MAY 31 1955

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Proposed Underground Exploration Method

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May 16, 1955

GEOLOGIC REPORT ON PROPERTIES OF ROCKY MOUNTAIN URANIUM CORPORATION

INTRODUCTION

This report deals with properties located in the southern part of the San Rafael Swell, in Emery County, Utah, and owned by the Rocky Mountain Uranium Corporation. The property consists of forty-eight mining claims, in part overlapping, called the Green Dragon group. The claims are located in what will be, when the area is surveyed, Sections 25 and 26 of T. 24 S., R. 8 E. and 19 claims in two adjacent groups called the Fremont and Little Susan groups, in Sec. 36, T. 25 S., R. 8 E., and Sec. 1, T. 26 S., R. 8 E.

The Rocky Mountain Uranium Corporation has been actively exploring and developing the properties for more than eight months. Uranium ore has been mined from two of the groups. Continued exploration will undoubtedly discover new ore bodies, since only a small part of the favorable areas has been investigated to date.

Complete camp facilities have been constructed on the Green Dragon Group. These facilities include three bunk houses, messhall and kitchen, a change house, small shop, black-smithing facilities, gas, oil and water storage tanks, butane - electric generator system, powder magazine, and a warehouse.

A second and somewhat smaller camp has been established to maintain the operations being conducted on the Fremont and Little Susan properties. Facilities there consist of bunkhouses, a messhall and kitchen and a powder magazine.

The company has sufficient mining equipment to sustain the present operations, but new equipment will be necessary to replace some of the present equipment as the underground work proceeds.

Accessibility

Green River, Utah, is the railheading and communication center nearest the property. Ore is trucked to Green River and shipped by rail to the processing mill. To date, most of the ore from the properties has been purchased by the Vitro Chemical Corporation.

The company's holdings may be reached by driving south from Green River on Utah Highway 24 to the Temple Mountain Road, a distance of 35 miles; thence westward on the Temple Mountain road 33 miles to the Green Dragon Group or 36 miles to the Little Susan and Fremont claims. Signs indicating the route have been erected at all junctions, and no difficulty should be encountered in locating the property.

All of the road is gravel surfaced and, generally speaking, maintained in good condition. The roads are passable throughout the year, though delays are occasionally caused by flash floods during the late summer months.

Topography and Climate

The climate of the region in which the property is located is semi-arid. During the greater part of the year temperatures are high, with occasional readings well above one hundred degrees. During the

FIG. 1 Topography and vegetation typical of Muddy River District.

FIG. 2 View looking west toward Little Susan and Fremont groups.

PLATE I

late fall and winter months the temperatures average above freezing, with only occasional periods of sub-freezing weather, and these not severe enough to cause a curtailment of the operations.

Rainfall is practically nil through much of the warm season. The precipitation that is recorded generally falls during a few torrential storms. These commonly occur in the late summer and early fall. The water from these storms runs off rapidly causing the flash floods that are a plaque to all travellers in the region.

Snow is common in the winter months, and it is not uncommon for snow depths to reach eight to twelve inches. The most difficult period of the year for mining operations is the early spring, when the melting snow converts the clay-bearing rock formations into thick, muddy beds that become nearly impassable.

The topography of the region is typical of the canyon country included in the Colorado Plateau. The hard, massive sandstone units are eroded to form cliffs, while the softer, less resistant rocks are eroded to form stopes which support only sparse vegetation and are generally covered with large blocks of talus from the overlying sandstones. These softer units stand as erosional remnants in the valley floors, forming buttes which are usually capped by a sandstone formation.

GEOLOGY

Sedimentary rocks

In the immediate vicinity of the subject property rocks ranging in age from lower Triassic to upper Jurassic are exposed. All of these rocks have a continental origin, but were deposited under several different types of geologic conditions.

Moenkopi formation

This formation is considered to be of lower Triassic age. It is composed of red to brown shales and fine grained, micaceous sandstones. It is the oldest rock exposed in the area. The Moenkopi has been eroded to form steep slopes over much of the area, but vertical cliffs eroded from the upper part of the formation are not uncommon.

Monitor Butte formation (?)

It has recently been proposed that a series of variegated shales which lie upon the Moenkopi formation be designated the Monitor Butte formation. This unit was previously considered as the basal unit of the Chinle formation. It is composed of variegated shales containing narrow bands of black and brown chert. The formation was measured at three points on the property. The greatest thickness measured was fifty-five feet and the thinnest section observed was zero. The chert units and the part of the formation in contact with the overlying sandstone are uraniferous in places. Some of the ore produced in this district comes from this formation.

Mossback Sandstone

The Mossback sandstone is probably lower Upper Triassic in age. Its origin is not completely established; however, much of the material that makes up the formation was deposited in channel-ways that were carved into the older, underlying Monitor Butte (?) formation. These old channel scours are visible today wherever the base of the formation is exposed. They are referred to as "paleochannels".

The upper part of the Mossback sandstone is composed principally of fine-to medium-grained sandstone containing lenses of gritstone and pebbles of chert and quartz. The lower part of the formation is composed of lenses of sandstone and conglomerate containing abundant carbonaceous material. This unit usually contains poorly sorted material with individual pebbles as large as two inches. Mudstone and clay cement is common.

The Mossback sandstone has a wide range of thickness. It is thickest at points where the paleochannel has carved deeply into the Monitor Butte formation. All three of the units are of irregular thickness and one or more may be absent. The basal unit is only present in channel scours. The greatest Mossback thickness measured on the property was 81 feet. The thinnest section was 26 feet.

The lower unit of the Mossback sandstone is the principal source of uranium ore in the Muddy River district. This formation, and particularly the lower unit, is the zone that must be penetrated and tested by any exploration work that is done in the district.

Chinle formation

The Chinle formation, Upper Triassic in age, is composed of variegated mudstones and siltstones containing occasional lenses of sandstone and limestone. The Chinle is eroded to form slopes which usually are covered with large talus blocks and other debris from the overlying formations. In the vicinity of the subject property the Chinle formation averages 200 feet in thickness. Most of the roads constructed for exploration work in the area are cut into this formation.

Glen Canyon Group

The Glen Canyon group of formations comprises three sandstone formations. From oldest and lowermost to youngest and uppermost they are the Wingate sandstone, the Kayenta formation, and the Navajo sandstone. They have a combined thickness in excess of seven hundred feet. They are eroded to form cliffs that serve as natural barriers, preventing economic road construction wherever they are encountered. Because of this and the great thickness of the three formations, the cliffs also establish a boundary beyond which exploration by drilling becomes almost prohibitively expensive if a large area is to be thoroughly tested.

Structure

The major structural feature in the district is the great San Rafael upwarp. The Muddy River District lies on the southwestern flank of this upwarp, and all of the rocks exposed dip to the south and west on the company's property. On the Green Dragon group the rocks strike N. 15° W. and dip 5° S.W. On the Little Susan and Fremont groups the rocks strike N. 25° W. and have an average dip of 4° to the southwest.

A conjugate joint system transects the district. One set of joints strikes to the northwest; the other to the southwest. On the Little Susan and Fremont groups these joints are exceptionally plain. In some cases the joint planes can be observed to contain much limonite staining.

Northwest-trending faults are abundant. Displacements range from a few feet in some places to nearly 200 feet on Tomsich Mountain. Only minor faults are present on the company's property.

URANIUM MINERALIZATION AND ORE DEPOSITS

The Muddy River District is a proven mineralized area. Several mines in the area have produced many thousands of tone of ore (Tomsich Mt., Lucky Strike #2 and the Hidden Slendor which has a proven ore reserve in excess of 60,000 tons), and many other properties, including the Green Dragon and Little Susan groups, have yielded significant tonnages, and hold much promise of more and greater tonnages.

Minerals

Carnotite. Carnotite was observed as encrustations and dissemminations in selected samples taken from the mine on the A&G #1 at the Green Dragon Group.

Rabitite(?) A pale greenish-yellow mineral was collected from the A&G #1 claim. It occurs as earthy encrustations and fracture filling with finely fibrous gypsum.

Uranophane. Specimens collected from the Lucky Strike #1 and #2 claims contained uranophane as thick coatings on black chert nodules from bands in the Monitor Butte (?) formation.

Unidentified mineral. The carnotite and rabitite are closely associated with a black, earthy mineral that probably is a vanadate, since the ore shipped from the mine carried uranium and vanadium in nearly equal amounts.

Malachite and azurite. These are the most commonly observed minerals on the Green Dragon Group and occur both in the Mossback sandstone and in the underlying Monitor Butte formation.

FIG. 1 Uranium mine on Tomsich Mountain, Muddy River District. Location of ore horizon in base of channel is typical of occurrence in the district.

FIG. 2 Deep channel scour on the Green Dragon claims. Note lowest point of channel nearly reaches the upper beds of the Moenkopi formation.

PLATE II

In addition to these minerals it is probable that some of the ore from the Little Susan mine contains uraninite, although none was indentified.

Mineral associations

With the exception of the uranophane, all of the uranium mineralization observed on the Rocky Mountain Uranium Corporation property is contained in the basal part of the Mossback sandstone. The valuable minerals are closely associated with abundant carbon and clay. At the Little Susan mine the highest grade ore came from fine-grained sand and silt beds in which the ratio of carbon and clay was approximately 1 to 1 in spots. In the zone where the carbon content was low the uranium content also dropped. This ore also contained a fine-grained mica with concentrations (estimated) to 2%.

At the mine on the A&G #1 claim in the Green Dragon Group the ore is also associated with abundant carbon and clay, but the host rock is a medium-to fine-grained sandstone with included clay nodules. The rock also contains much clay as cement.

Guides to Ore

The primary feature that has apparently controlled the location of uranium deposits in the area is paleochannels at the base of the Mossback sandstone. All of the producing mines in the district are mining from the basal part of these channels and the part of the Monitor Butte formation (?) in contact with the channel. A zone of varying thickness at the base of the mineralized channels is commonly bleached to shades of gray or green. The boundary between the bleached and unbleached mudstones is usually uneven and cuts across the assumed natural bedding planes. The upper part of this bleached zone is usually high in the

lower unit of the Mossback. The clay cementing the pebble and sand is characteristically bleached to the same color as the underlying mudstone. Channels that are mineralized invariably contain much carbonaceous material. Other features exist that also could be used as guides to ore, but probably with less accuracy. All of the above features can be observed both in the field and from data obtained from drill holes. A careful compilation of data including these features should be kept on all drill holes. Even though mineralization is not encountered in a particular hole the information may be essential in the proper location of succeeding holes.

PAST PRODUCTION FROM THE GREEN DRAGON AND LITTLE SUSAN GROUPS

The Rocky Mountain Uranium Corporation has produced in excess of one thousand tons of ore from the Green Dragon and Little Susan groups. The bulk of this production came from one ore body on the Green Dragon group. Over eight hundred tons was mined from the A&G #6 claim. It is understood the grade average was approximately 0.43% U_3O_8. An additional shipment of approximately fifty tons of cherty ore was taken from the Lucky Strike claims of the Green Dragon Group. Production from the Little Susan group to date has all come from a small ore body in the Little Susan Mine. At the time of the writer's visit two shipments totalling approximately one hundred fifteen tons had been made, but returns were not yet available.

To date the Fremont group of claims has yielded no ore.

CONCLUSIONS

The Rocky Mountain Uranium Corporation properties include a large area favorably located with respect to geologic horizons known to contain commercial concentrations of uranium minerals.

The exploration carried out to date on the properties has tested less than ten percent of areas which should be explored if the full potential of the property is to be determined. Many of the outcrops of the Mossback sandstone produce anomalous radiometric readings indicating the presence of uranium mineralization. These favorable outcrops are associated with paleochannels, and in most cases can be explored by drilling behind the outcrop.

While the greater part of the company's production has come from the Green Dragon Group, the potential of the Little Susan group seems equally as high. The Fremont group has been explored at only one outcrop, and thus has not provided enough information to afford an evaluation of its worth.

Finally, the ratio of ore discoveries to barren ground on the areas tested to date is high, and affords the best speculative information about what may be expected to be found if an exploration program is undertaken. Using this as a basis, it seems likely that tonnages many times as great as the past production record and ore reserves may reasonably be expected.

Submitted by,

GEOPROFESSIONAL SERVICES, Inc.

F. W. Christiansen

F. W. Christiansen

Robert G. Coucher

Robert G. Coucher

RGC:cj

THE EXPLORATION PROGRAM

Objective.

The objective of the proposed exploration program is to further explore the Mossback member of the Chinle formation for ore-grade uranium mineralization. The program places emphasis on continued exploration of paleochannels at the base of the Mossback member that have already been the scurces of quantities of uranium ore, or have outcrops containing uranium mineralization as indicated by visible minerals or by anomalous radiometric readings at outcrops of the formation.

General outline of the program.

The Atomic Energy Commission has conducted rim reconnaisance on the Green Dragon Group, and this information is to be used as a primary tool in selecting the most favorable zones in the Mossback member. This data, coupled with a study of the paleochannels, which is possible because of a nearly continuous outcrop of the Mossback member, affords the opportunity of using the drilling footage to maximum advantage. Plate IV shows the location of all main drill access roads and drilling previously done. The locations on plate IV marked A, B. etc. are the approximate centers of channels that are to be tested by the proposed drilling. In some cases, as at location A, three geologically favorable outcrops are exposed at the rim and footage has been allocated to test all three.

The part of the exploration program that concerns the Little Susan Group of claims is intended to continue exploration of a large, and geologically favorable paleochannel that has been explored for over three hundred feet underground by the Rocky Mountain Uranium

Corporation. The method outlined below will not only explore a major part of this channel, but will allow a means for testing an even greater area that may also be shown to be favorable as the exploration progresses. Plate V shows the location of the Little Susan Mine with respect to the property. Plate VI shows the existing workings at the Little Susan and Plate VII is a schematic diagram illustrating two phases of the proposed exploration, (drifting and diamond drilling).

Exploration on the Fremont Group will test the area behind the Fremont prospect and along the lower road, then the area served by the middle road will drilled. Finally if the results of earlier drilling justify it, the area served by the upper road will be drilled. Most of the drilling will be along the centerline of the road indicated on Plate V.

The entire program has been scheduled on a six month basis. This schedule is predicated upon the assumption that the drilling program will be conducted simultaneously with the underground exploration at the Little Susan.

The proposed work at the Little Susan will require approximately six months to complete. The work on the Green Dragon Group will require four months and at the Fremont Group two months. Thus, if drilling can be commenced on the Green Dragon Group at the same time exploration is commenced at the Little Susan, it will be possible to complete the entire program in approximately six months. This assumes drilling will commence on the Fremont Group at the completion of work on the Green Dragon Group.

PROPOSED EXPLORATION PROGRAM FOR THE

GREEN DRAGON CLAIMS

Phase I

Proposed work - Drilling

The greater part of the area within the Green Dragon Group can be tested by drilling with holes collared in the Chinle formation. It is believed that the claims which overlie the Wingate and younger formations should be held pending the outcome of the exploration on the more easily accessible claims.

In the interest of economy, Phase I has been planned to utilize wagon drilling. This will allow a maximum area of the claim group to be tested for a minimum cost.

Thirty-three thousand seven hundred fifty feet of drilling has been planned. This footage will be sufficient to drill 225 holes with and average depth of 150 feet. Maximum drilling depths for this phase of the program will not exceed two hundred feet. Minimum drilling depths will be approximately eighty feet, where the holes are collared in the top of the Mossback sandstone.

This footage is to be used to test the fifteen most favorable channel outcrops on the property. Thus, each favorable outcrop can be allotted approximately 2,250 feet of the total footage.

No grid system has been planned for Phase I because the Mossback is exposed as a continuous rim close to all the areas to be drilled. The footage can be used to better advantage by drilling only the areas that are behind, and on the trend of channels exposed at the outcrop.

A cuttings sampler is to be used to collect samples. These will be tested radiometrically first, and then chemically if uranium mineralization is indicated. In addition, each hole will be probed and logged in accordance with standard procedure.

Proposed work - road building

In order to undertake the drilling proposed for Phase I approximately 15,000 feet of new road must be constructed. The accompanying map shows the location and most favorable routes for this road. The short drill site roads branching from this main road are not shown since their exact location will be determined only as the information concerning hole location is gathered during the course of drilling. The first holes to be drilled behind each favorable outcrop will be located on the center line of this main road, which in most cases will be the point nearest the Mossback rim.

If such a system is employed each hole can be located to take advantage of the geologic information obtained from the previously drilled holes. This method has been shown to be the most economical and practical approach to drill hole location, when properly coupled with the geologic information that is available in areas of numerous outcrops of the target horizon.

Phase II

Proposed work - Drilling

In the event that sufficient ore is found to justify it, additional drilling will be necessary to determine the extent and grade of the ore bodies.

For Phase II two thousand feet of diamond drilling and sixteen thousand additional feet of wagon drilling has been used for purposes of estimating the approximate requirements of this phase.

The diamond drilling footage is to be used as a means for correlating the hole probe logs with actual chemical assays from the ore horizon. In any ore bodies that are encountered at least two holes will be diamond drilled through the ore horizon, the holes will be probed and logged. The cores will be assayed chemically and a comparison then made between the results obtained by the two methods. This will provide a correction factor for probe logs that should make possible an accurate determination of the grade in all holes containing mineralization.

Proposed work - Road Construction

Should Phase II be initiated, additional road construction will be needed to provide access to offset drill sites. This will require an estimated additional four thousand feet of road.

ESTIMATE OF COSTS

(1) Independent contracts		
(a) Wagon drilling: 33,750 feet @ $1.00 per foot.	33,750	
(b) Additional wagon drilling for phase II 16,000 feet @$1.00 per foot.	16,000	
(c) Diamond drilling 2000 feet @ $4.00 per foot (includes allowance for lost casing, standby time, etc.)	8,000	
(d) Assaying (200 samples @ $4.00	800	
		58,550

(2) Labor supervision, consultants		
(a) Common labor (2 men @ $300 per month X4)	2,400	
(b) Heavy equipment operator @ 396 month X4	1,584	
(c) Mechanic @ 396 per month X4	1,584	
(d) Superintendent @ $700 month X 4	2,800	
		8,368
(3) Operating materials		
(a) Fuel: diesel gasoline	750 230	
(b) Water	240	
(c) Explosives (road construction)	750	
(d) Bits and steel (used in road construction)	356	
(e) Picks and shovels	36	
(f) Lubricants	368	
(g) Miscellaneous rope, chain etc.	50	
		2,780
(4) Operating equipment On rental from Rocky Mountain Uranium Corporation		
(a) TD 24 International Tractor (@ $3.00 hour x 633)	1,899	
(b) Chevrolet 1/2 ton pick-up ($4.00 day)	480	
(c) Joy 125 compressor and equipment ($150 per month)	600	
		2,979
(5) Miscellaneous		
(a) Repair to operating equipment	500	
		500

PROPOSED EXPLORATION PROGRAM

FOR THE LITTLE SUSAN GROUP

The proposed exploration program on this group is to consist entirely of underground methods.

Phase I

Proposed work - Continuation of exploratory drifting

It is proposed that fifteen hundred feet of exploratory drifting be conducted. The drift will follow, insofar as practical, the axis or trough of the Mossback channel in which the workings of the Little Susan mine are located.

This phase of the exploration will not only test a large area along the channel beyond known ore, but will provide an economical means of testing an even greater area adjacent to this main channel which may also contain significant ore bodies. In order to obtain maximum results close supervision will be necessary to keep the tunnel as close to the channel trough as possible.

As the heading is advanced careful mapping is to be done of all sedimentary trends, features of alteration and mineralization. It is hoped that from this information a pattern of favorable characteristics can be developed which will be of great value in planning Phase II and Phase III.

Phase II

Proposed work - crosscuts in ore and drifts on secondary channels.

Fifteen hundred additional feet of underground workings have been tentatively planned for the purpose of crosscutting in ore to determine extent and grade, and to prepare the ore for mining. This should also

be sufficient to allow footage for following any favorable secondary channels that may be encountered.

Phase II will only be undertaken if ore is encountered in the main adit, or if strong mineralization is present, but diverging from the main channel trend. The fifteen hundred feet allocated for this phase is an arbitrary maximum. The actual footage may easily be much less than this figure. The footage, thus, represents only an estimate of footage that could block out a tonnage of ore sufficient to assure repayment of a substantial part of the loan.

Phase III

Proposed work - Diamond drilling

In the event that only minor mineralization is encountered in phase I and it is deemed inadvisable to undertake phase II, lateral diamond drilling is proposed as a third and final phase of the program.

Experience has shown that in the Plateau region horizontal and slightly inclined holes can be drilled to depths in the three hundred foot range with good core recoveries. When hole depths exceed three hundred feet core recovery drops to an unexceptable low and much difficulty in maintaining the holes is encountered.

This phase of the program has been planned as follows. Forty-five hundred feet of drilling footage is to be distributed to drill fifteen horizontal (or nearly horizontal holes) at one hundred foot intervals along the main adit. Each successive hole will be drilled in the opposite wall from the wall drilled with the previous hole. This will result in a spacing of two hundred feet between any two holes in the same wall. Core recoveries can be expected to average seventy-five per cent. For this reason it will be necessary to sample

sludges insofar as possible to avoid the possibility of missing an ore or mineralized zone.

This method of exploration will test a zone five hundred feet wide and fifteen hundred feet long. The ground tested will be the most favorable area on the Rocky Mountain Uranium Corporation property. This method is deemed the most practical method for a number of reasons. To test the same area by vertical drilling would require a minimum of 18,000 feet of vertical drilling. This assumes all such holes would be drilled into the favorable trend: Then, if ore were encountered the underground work, which is an intergral part of the proposed program, would still have to be undertaken. The cost of a surface exploration program of 18,000 feet of drilling to test this same favorable zone would cost more than the proposed method because of the tremendous difficulties of road construction and transport that would be encountered as a result of the topography of the area to be explored.

ESTIMATE OF COST

(1) Independent contracts		
(a) Diamond drilling (AX core, specified minimum acceptable core recovery 75% @ $4.00 foot X 4500)	18,000	
		18,000
(2) Labor, supervision, consultants		
(a) Miners (6 @ $327 per month X 6)	11,772	
(b) Cost of these categories divided under Green Dragon and Fremont		11,772
(3) Operating materials		
(a) Fuel, gasoline	1,080	
(b) Water	360	

(c) Explosives (720 cases @ $20.90 per 100 lbs.)	7,524	
caps and fuse	1,218	
(d) Bits and steel	2,400	
(e) Timber and wedges (this can only be estimated)	2,000	
(f) Rail and spikes (calculated for 1750 feet)	2,985	
(g) Ties for track	600	
(h) Carbide	100	
(i) Air and Water line (Calculated for 3000 feet)	1,500	
(j) Ventilation (12 inch galvanized @ .50 ft.)	1,500	
(k) Wire, nuts, bolts, picks, shovels	100	
(l) Lubricants	72	
	19,939	
(4) Operating equipment	1,500	
		21,439

These items will be obtained on a rental purchase basis and either be purchased by the company if operations are to continue or returned for sale if operations cease with completion of the program.

(a) Eimco 12B rocker shovel (@$300 per month)	1,800
(b) Eimco air locomotive (@ $300 per month)	1,800

These items will be used on the exploration program on a rental basis.

(c) LeRoy 250 compressor (@ $200 per month)	1,800
(d) International 3/4 ton pick-up (@ $3.00 day)	540

These items must be pruchased but will have resale value at the time the program is completed.

(e) Joy Rock hammers (model L-47 with air legs)	1,190	
(f) New air and water hose	160	
(g) Misc. tools such as hammers, wrenches, chain hoist additional grease guns etc.	100	
(h) Two air reservoirs (40 cu. ft. capacity)	50	
(i) Fittings	40	
(j) Mine cars (20 cu. ft. @ $210.00 X 4)	840	
(k) Lamps	36	
(l) Rubberized ventilation line 200 ft.	200	
(m) Ventilating fan and generator	800	
		9,356
(5) Buildings		
(a) Generator shed at Little Susan Mine	50	
		50
(6) Miscellaneous		
(a) Repair to equipment	500	
		500

PROPOSED EXPLORATION PROGRAM FOR THE FREMONT CLAIMS

Phase I

Proposed work - Drilling

Twenty-two thousand five hundred feet of wagon drilling is contemplated for Phase I. This will permit the drilling of approximately one hundred fifty holes to test the zones behind the Mossback channel

outcrops. Here, as on the Green Dragon group, it is planned to employ the information from each preceding hole in locating the site of the next hole. Thus, it is difficult to indicate the exact locations of each drill hole on a map prior to actual commencement of the drilling program.

Phase II

If sufficient ore is discovered in phase I, additional drilling to greater depths is to be undertaken. This drilling will be to test portions of the Mossback underlying the full section of the Chinle formation. Fifty-four hundred feet of drilling is to be allocated for this purpose. This will be sufficient to drill eighteen holes with an average depth of three hundred feet. The location of these holes will be determined after a study is made of the information obtained from phase I.

Two-thirds of this footage will be used in inclined holes and one-third will be used in vertical holes.

Since ore is available for making chemical-radiometric comparisons, no coring is contemplated.

Proposed work - Road Construction

(a) Phase I

In order to prepare the ground for the drilling program approximately three thousand feet of road must be constructed. The map shows the proposed route of the main road, but does not indicate the branch routes to individual drill sites, since these locations will be dictated by information obtainable only after the program is commenced.

(b) Phase II

Contingent upon the successful completion of Phase I, three thousand additional feet of road building will be required to prepare the upper part of the Chinle formation for drilling. This road work is shown as a continuation of the road constructed for Phase I.

ESTIMATE OF COST

(1) Independent contracts		
(a) Wagon drilling: 22,500 feet @ $1.00 per foot.	22,500	
(b) Rotary drilling: 3,600 feet @ $3.00 and 1,800 feet @ $2.25	14,850	
(c) Assaying dust and cutting samples (100 samples at $4.00)	400	
		37,750
(2) Labor, supervision consultants		
(a) Common labor (2 men @ $327 per month) X 2	1,308	
(b) Mechanic ($396 per month) X 2	792	
(c) Heavy equipment operator ($396 per month) X 2	792	
(d) Superintendent ($700 per month) X 2	1,400	
		4,292
(3) Operating materials		
(a) fuel: (diesel)	200	
(gasoline)	150	
(b) water: (for general camp use)	120	
(c) explosives (used for road construction)	250	
(d) bits and steel	116	

(e) Picks and shovels	18	
(f) lubricants	184	
(g) emergency medical supplies	25	
		1,063

(4) Operating equipment

The items below are owned by Rocky Mountain Uranium Corporation and will be used on the exploration program on a rental basis. The estimated fair rental is calculated to cover only normal depreciation for the equipment.

(a) TD 24 International Tractor with bulldozer @$3.00 per hour x 316 hours	950	
(b) Chevrolet 1/2 ton pickup @ $4.00 per day	240	
(c) Joy 125 compressor with hose fittings and air hammer $150 per month	300	
		1,490

(5) Miscellaneous

(a) Repair to equipment (estimate of amount necessary to keep equipment operative during exploration program).	250	
		250

TOTAL ESTIMATE OF COST

(1) Independent contracts		
(a) Green Dragon	58,550	
(b) Little Susan	18,000	
(c) Fremont	37,750	
		114,300

(2) Labor, supervision, consultants		
(a) Green Dragon	5,568	
(b) Little Susan	11,772	
(c) Fremont	2,892	
Superintendent	4,200	
Consultants	5,200	
		29,632
(3) Operating materials		
(a) Green Dragon	2,780	
(b) Little Susan	21,439	
(c) Fremont	1,063	
		25,282
(4) Operating equipment		
(a) Green Dragon	2,979	
(b) Little Susan	9,356	
(c) Fremont	1,490	
		13,825
(5) Buildings		
(b) Little Susan	50	
		50
(6) Miscellaneous		
(a) Green Dragon	500	
(b) Little Susan	500	
(c) Fremont	250	
workmen's compensation	644	
liability insurance, based on payroll	540	
		2,434

	Sub Total	185,523
(7) Contingencies 10%		18,552
	Total cost of proposed program	204,075

Submitted by,

GEOPROFESSIONAL SERVICES, Inc.

F. W. Christiansen

F. W. Christiansen

Robert G. Copcher

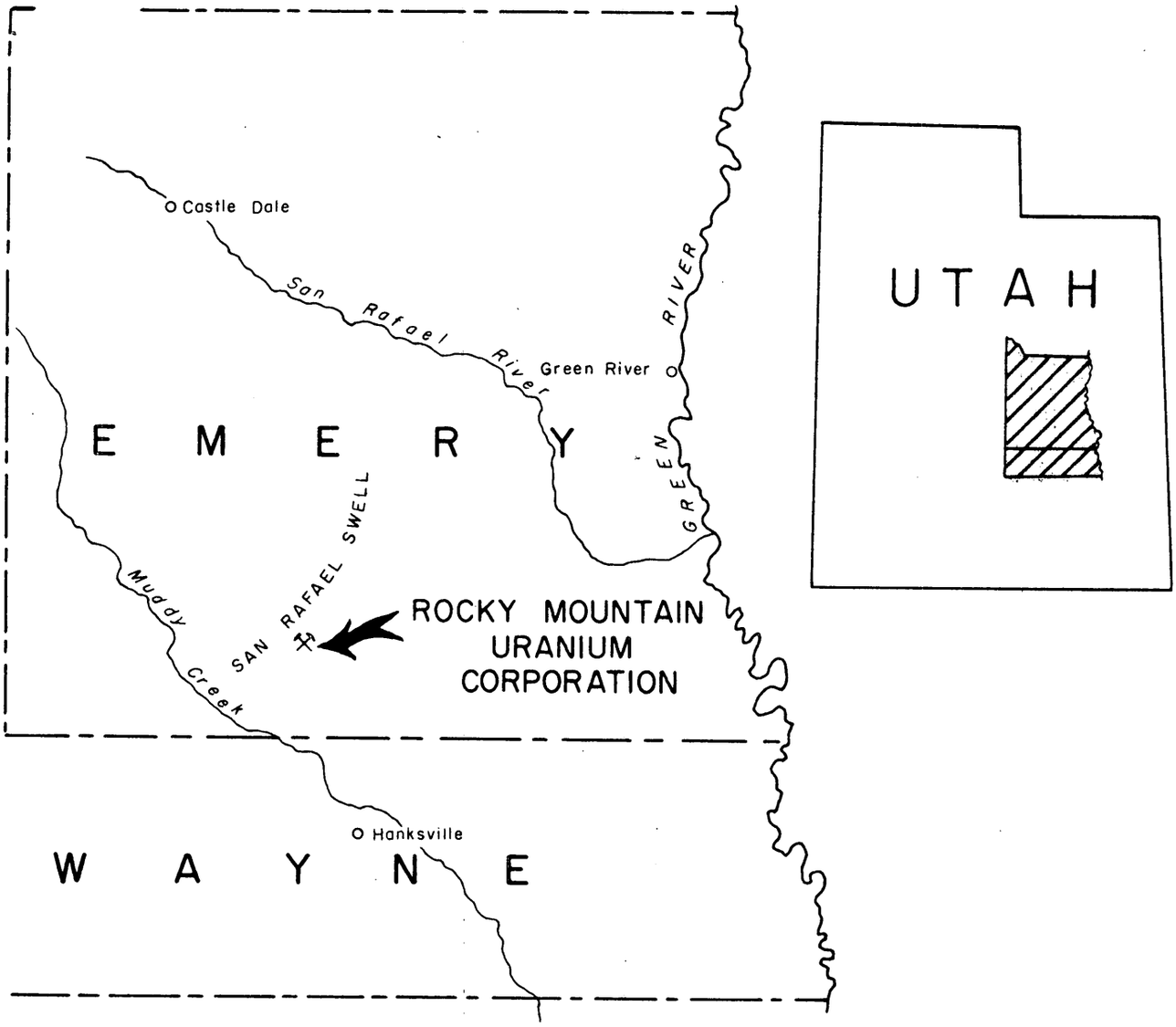
Robert G. Copcher

RGC:cj

ROCKY MOUNTAIN URANIUM CORPORATION
Dallas, Texas

Summary of Ore Sales - Period Ended March 31, 1955

Claim	Average Value Per Ton	Dry Tons Sold	Average Assay U_3O_8	Average Assay V_2O_5	Ore Value Uranium	Ore Value Vanadium	Development Allowance	Premium Payment	Haulage Allowance	Accrued Bonus	Penalty Charges	Total
Rainy Day #2												
December 1954	$49.02	260	0.28	-o-	$ 5,017.77	-o-	$ 716.82	$ 294.[illegible]	$ 1,620.99	$ 5,096.00	-o-	$ 12,746.41
January 1955	54.54	920	0.31	-o-	20,107.00	-o-	2,872.44	1,947.1[illegible]	5,717.88	19,964.00	(32.09)	50,176.47
February 1955	56.40	361	0.34	-o-	8,304.21	-o-	1,196.09	749.0[illegible]	2,243.64	8,591.00	-o-	21,084.03
March 1955	32.55	328	0.28	-o-	6,335.77	-o-	905.10	371.22	2,033.55	1,349.00	(315.71)	10,677.93
Totals	$50.66	1,869	0.305	-o-	$39,764.81	-o-	$5,690.45	$2,962.32	$11,615.06	$35,000.00	$(348.80)	$94,684.84
A & G #1												
September 1954	$99.42	17	0.52	1.71	$ 619.80	$ 132.29	$ 80.54	$ 84.25	$ 108.24	$ 607.00		$ 1,690.12
October 1954	51.70	127	0.25	.82	2,284.57	730.57	326.37	107.37	695.1[illegible]	2,222.00		6,566.04
November 1954	55.76	177	0.30	1.33	3,368.86	1,336.69	481.24	190.17	775.1[illegible]	3,717.00		9,868.69
December 1954	56.31	130	0.28	1.30	2,613.42	1,[illegible].57	373.35	171.5[illegible]	524.45	2,54[illegible].00		7,320.35
January 1955	49.56	101	0.25	1.20	1,773.8[illegible]	755.31	253.39	77.0[illegible]	338.00	1,767.00		5,015.47
February 1955	35.22	67	0.18	.93	740.00	3[illegible].31	120.95	-o-	230.4[illegible]	740.00		2,263.70
March 1955	31.32	78	0.23	1.12	1,25[illegible].04	242.60	179.72	35.1[illegible]	301.62	126.00		2,443.34
Totals	$34.20	697	0.205	1.201	$12,656.40	$5,023.54	$1,823.26	$ 666.57	$ 3,254.14	$11,735.00	-o-	$ 32,167.91
Green Dragon #3												
October 1954	$37.65	5	0.21	0.21	$ 71.60	$ 5.36	$ 10.26	$ .73	$ 30.12	$ [illegible].00	$ ([illegible].00)	$ 128.27
November 1954	23.22	9	0.15	0.16	35.02	9.38	13.01	-o-	54.38	[illegible].00	(1.00)	209.07
December 1954	96.39	11	0.55	0.30	424.80	20.33	30.70	30.70	69.43	424.00		1,060.27
January 1955	70.67	19	0.39	0.16	542.40	23.01	77.49	57.80	123.03	519.00		1,342.79
Totals	$56.98	44	0.33	0.21	$ 1,104.00	59.58	$ 161.46	$ 119.23	$ 277.05	$ 1,0[illegible].00	$ (6.00)	$ 2,800.40
Little Susan #1												
March 1955	$73.16	74	0.43	0.27	$ 2,212.91	$ 123.40	$ 316.9[illegible]	$ 254.[illegible]	$ 273.31	$ 2,227.00		$ 5,413.94
Totals, All Claims		2,684			$55,754.20	$5,206.52	$7,992.16	$4,001.45	$15,420.56	$50,041.00	($354.00)	$130,067.09



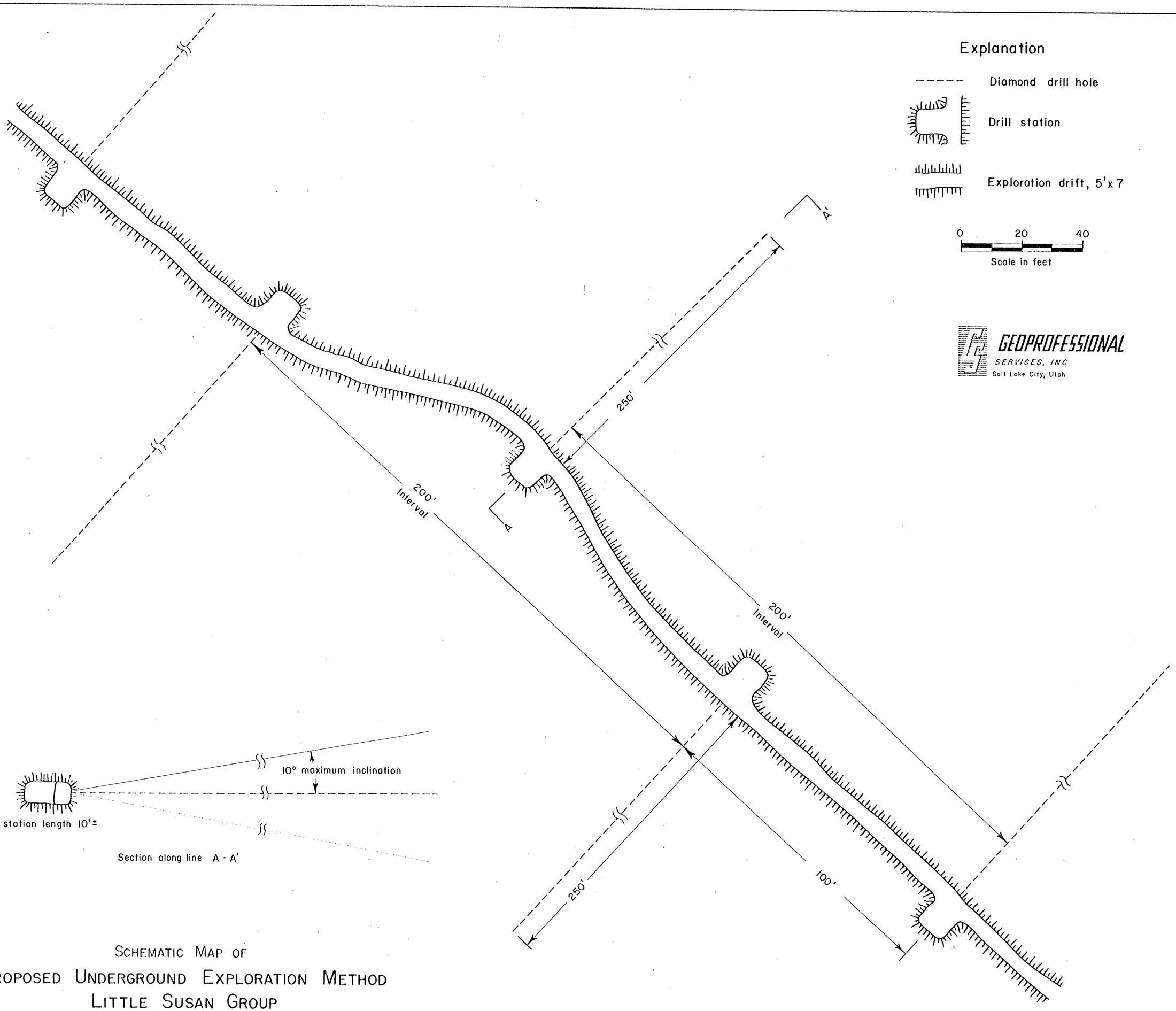
INDEX MAP SHOWING PROPERTY LOCATION

ROCKY MOUNTAIN URANIUM CORPORATION

LOWER MUDDY RIVER DISTRICT

EMERY COUNTY, UTAH

GEOPROFESSIONAL
SERVICES, INC.
Salt Lake City, Utah



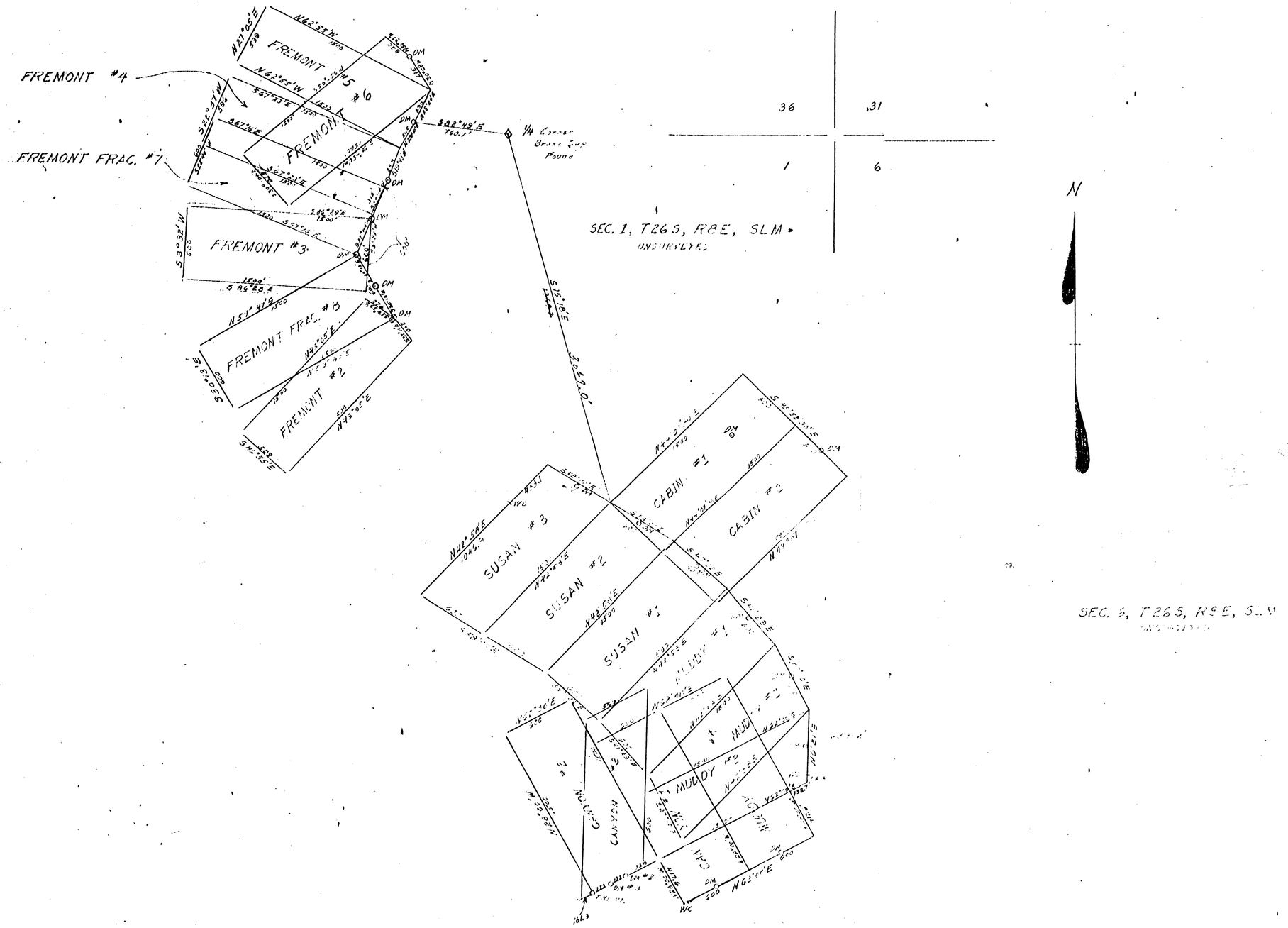
SCHEMATIC MAP OF

PROPOSED UNDERGROUND EXPLORATION METHOD

LITTLE SUSAN GROUP

ROCKY MOUNTAIN URANIUM CORPORATION

EMERY COUNTY, UTAH



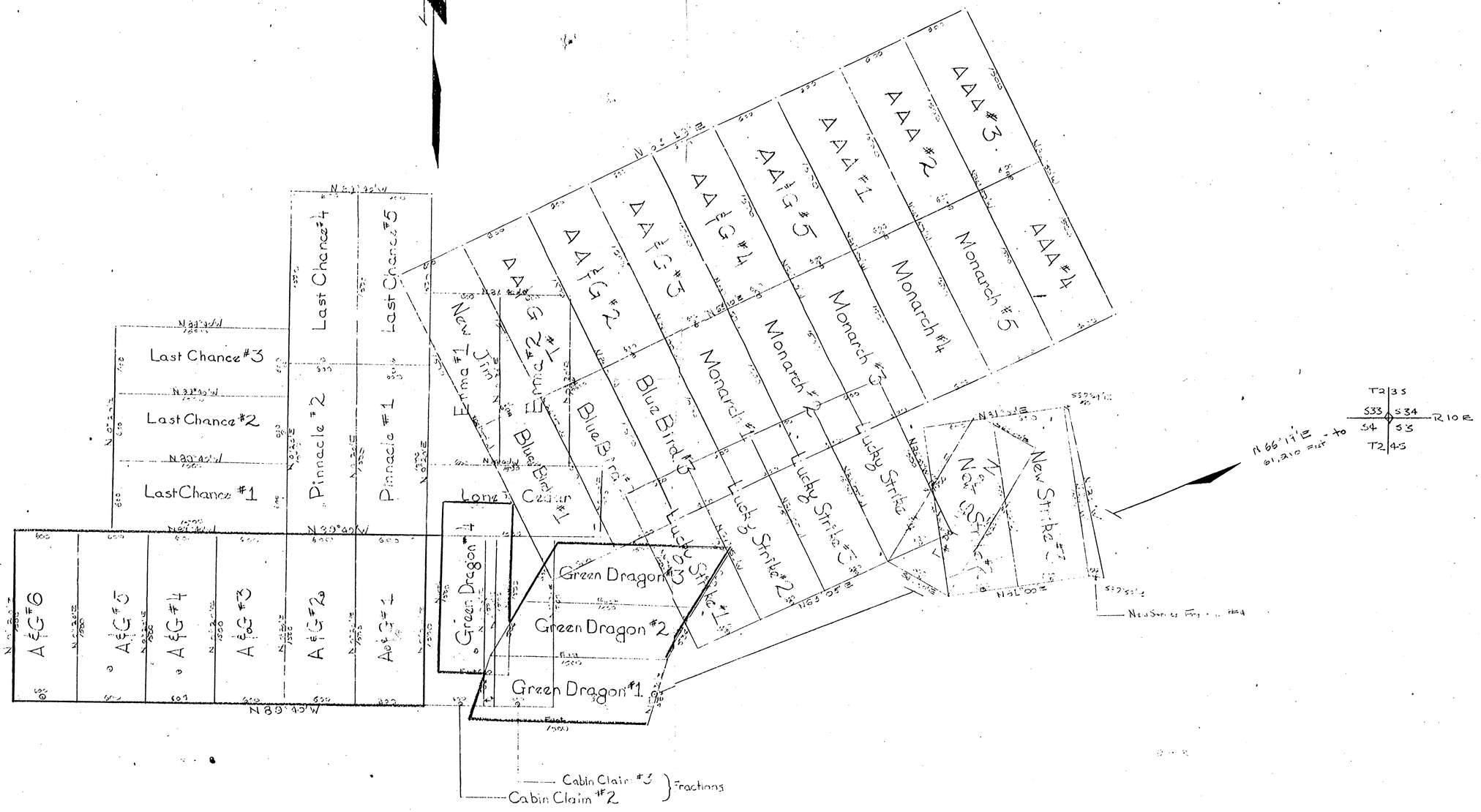
DATE	REVISION	BY	CHKD.

METROPOLITAN ENGINEERS, INC.
CONSULTING ENGINEERS
140 WEST 2nd SOUTH — SALT LAKE CITY, UTAH

DRAWN BY R. EUNC DATE 8/4/66 CHECKED BY ____ DATE ____ SCALE: 1" = 500'

NAME OF OWNER: MINEXCO and ALBRECHT
LOCATION OF JOB: MUDDY RIVER, EMERY CO., UTAH
TITLE OF DRAWING: SUSAN, MUDDY, CABIN, CANYON, and FREMONT CLAIMS

CONTRACT NO.
DRAWING NO.



DATE	REVISION	BY	CHKD.
4/25/61	Green Dragon Claims		

METROPOLITAN ENGINEERS, INC.
CONSULTING ENGINEERS
140 WEST 2nd SOUTH — SALT LAKE CITY, UTAH

DRAWN BY: DATE: 4/25/51 CHECKED BY: DATE: SCALE: 1" = 5000'

NAME OF OWNER: MINEXCO
LOCATION OF JOB: MUDDY RIVER T24S R8E
TITLE OF DRAWING: CLAIM MAP

CONTRACT NO.
DRAWING NO. 2

EXPLANATION

- Jw — Wingate and younger, undiff.
- Trc — Chinle formation
- Trmb — Mossback member of the Chinle
- Trm — Moenkopi formation
- Existing roads
- Proposed roads
- Drill holes
- Possible drillsites
- Mine workings

CLAIM NAMES

1	Fremont	No. 6
2	"	5
3	"	4
4	"	7
5	"	3
6	"	8
7	"	2
8	Susan	No. 3
9	"	2
10	"	1
11	Cabin	No. 1
12	"	2
13	Muddy	No. 1
14	"	2
15	"	3
16	"	4
17	Canyon	No. 1
18	"	2
19	"	3

36	31
1	6

SEC. 1, T. 26 S., R. 8 E., SLM
(Unsurveyed)

N

ROCKY MOUNTAIN URANIUM CORPORATION'S FREMONT & LITTLE SUSAN CLAIMS

LOWER MUDDY RIVER DISTRICT, EMERY COUNTY, UTAH

0 500 1000 1500
SCALE IN FEET

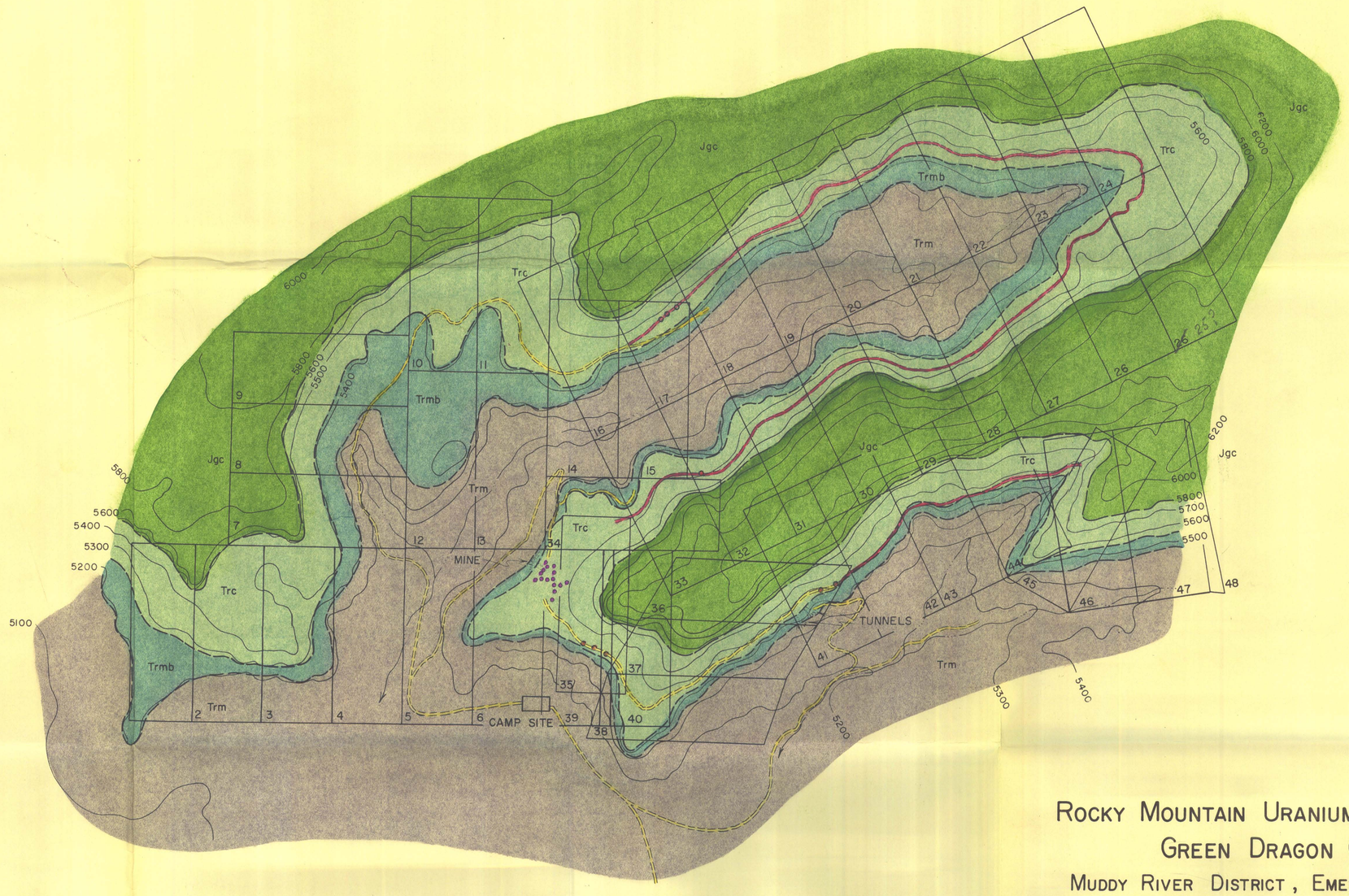
GEOPROFESSIONAL SERVICES, INC.
Salt Lake City, Utah

EXPLANATION

- Jgc — Glen Canyon undiff.
- Trc — Chinle fm.
- Trmb — Mossback member of the Chinle
- Trm — Moenkopi fm.
- Existing roads
- Proposed roads
- Drill holes
- Possible drillsites
- Mine workings

CLAIM NAMES

1	A. & G. No. 6	26	Monarch No. 5
2	" 5	27	" 4
3	" 4	28	" 3
4	" 3	29	" 2
5	" 2	30	" 1
6	" 1	31	Blue Bird No. 3
7	Last Chance No. 1	32	" 2
8	" 2	33	" 1
9	" 3	34	Lone Cedar
10	" 4	35	Green Dragon No. 4
11	" 5	36	" 3
12	Pinnacle No. 2	37	" 2
13	" 1	38	" 1
14	Erma No. 1	39	Cabin Claim No. 2
15	" 2	40	" 3
16	New Jim	41	Lucky Strike No. 1
17	A.A.& G. No. 1	42	" 2
18	" 2	43	" 3
19	" 3	44	" 4
20	" 4	45	New Strike No. 1
21	" 5	46	" 2
22	A.A.A. No. 1	47	" 3
23	" 2	48	New Strike Fraction No. 4
24	" 3		
25	" 4		

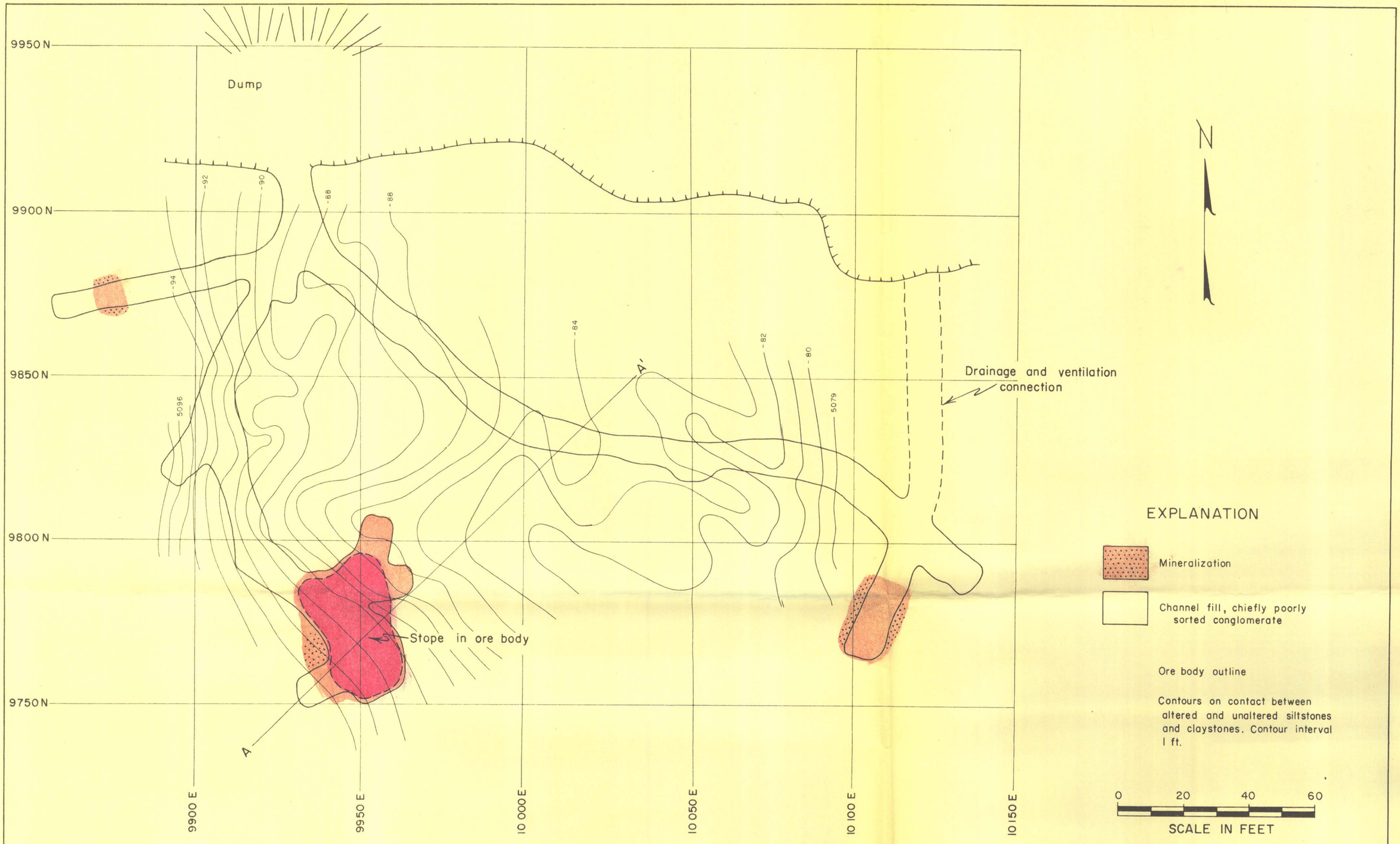


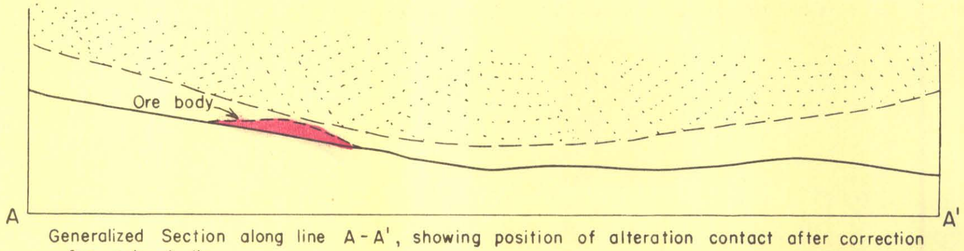
ROCKY MOUNTAIN URANIUM CORPORATION'S GREEN DRAGON CLAIMS

MUDDY RIVER DISTRICT, EMERY COUNTY, UTAH

0 500 1000 1500
SCALE IN FEET

GEOPROFESSIONAL SERVICES, INC.
Salt Lake City, Utah





Generalized Section along line A-A', showing position of alteration contact after correction for regional dip.

LITTLE SUSAN MINE
ROCKY MOUNTAIN URANIUM CORPORATION
LOWER MUDDY RIVER DISTRICT
EMERY COUNTY, UTAH
ORIGINAL SURVEY BY ROY HALL

GEOPROFESSIONAL SERVICES, INC.
Salt Lake City, Utah