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

224 New Customhouse
Denver 2, Colorado

March 9, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), Urado Uranium Company, Inc., Topaz group of claims, Lower San Miguel Mining District, San Miguel County, Colorado

Enclosed are the original and two copies of the subject application for exploration work at an estimated cost of $117,976.00.

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

W. M. TRAVER,
W. M. Traver

Enclosures

RDB:pw

cc: Docket (Urado Uranium, Inc.)
Administrator, DMEA
Harshman
Chron

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAR 1 4 1955

/DMEA
Date Rec'd.
MAR 1 1955
BUREAU OF MINES
Denver, Colorado

APPLICATION FOR DMEA PROJECT

ON THE

TOPAZ GROUP

February 28, 1955

Prepared for

URADO URANIUM, INC.

304 MAIN STREET

GRAND JUNCTION, COLORADO

by
GEO-ENGINEERING
304 Main Street
Grand Junction, Colorado

GEO-ENGINEERING
304 Main Street
Grand Junction, Colorado

APPLICATION FOR DMEA PROJECT ON THE TOPAZ GROUP, PREPARED FOR URADO URANIUM, INC., 304 MAIN STREET, GRAND JUNCTION

TABLE OF CONTENTS

Title	Page
INTRODUCTION	1
ABSTRACT	1
1. NAME OF APPLICANT	2
2. GENERAL	2
3. APPLICANT'S PROPERTY RIGHTS	3
a. & b. Legal Description and Name of Property	3
c. Interest	3
d. Outstanding Liens	3
e. & f. Record of Title	3
4. PHYSICAL DESCRIPTION OF PROPERTY	4
a. Operations	4
b. Production and Ore Reserves	4
c. Geological Features	4
Stratigraphy	4
Structure	5
Ore Deposits	5
Justification of Exploration	5
d. Accessibility	5
e. Availability of Manpower, Equipment, Supplies, etc	6
5. THE EXPLORATION PROJECT	6
a. Mineral	6
b. Proposed Work	6
Logging and Sampling	7
Geologic Control of Drilling	7
Drilling Plan	7
c. Time of Exploration Project Contract	8
d. Ability of Applicant	8
6. ESTIMATE OF COSTS	10
a. Independent Contractors	10
Drilling	10
Bulldozer and Tractor	10
b. Labor, Supervision, Consultant	10
c. Operating Materials & Supplies	11
d. Operating Equipment	11
e. Rehabilitation & Repairs	11
f. New Buildings, Improvements & Installations	11
g. Miscellaneous	11
h. Contingencies	11
Independent Contractors	11
Labor, Supervision & Consultants	12
Operating Materials & Supplies	12
New Buildings, Improvements, etc.	12
Miscellaneous Costs	12
7. APPLICANT'S SHARE OF COST	12

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APPLICATION FOR DMEA PROJECT ON THE TOPAZ GROUP, PREPARED FOR URADO URANIUM, INC., 304 MAIN STREET, GRAND JUNCTION

LIST OF SCHEDULES

Title	Schedule No.
Core Drill Hole Depths	1
Core Drilling Summary - Stage I	2
Estimate to be paid Independent Contractors	3
Estimated Costs under 6(a), 6(b), 6(c), 6(f) and 6(g)	4
Summary of Costs	5

LIST OF FIGURES

Title	Figure No.
Map of Uravan Mineral Belt Showing Location of Topaz Group	1
Map of Uravan Mineral Belt Showing Dominant Orientation of Fossil Logs and Ore Rolls	2
Topographic Map of Topaz Group	3
Topaz Claim Map Showing Drill Hole Location	4
Section A-A' from Figure 4	5

LIST OF EXHIBITS

Title	Exhibit No.
Completed DMEA Form MF-103	1
Mining Lease to URADO URANIUM, INC.	2
Certified Copies of Original Topaz Location Notices	3 thru 10
Certified Copies of Public Law 585 Amended Notices	11 thru 18
Log of Drill Hole T1-1	19
Log of Drill Hole T1-2	20

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APPLICATION FOR DMEA PROJECT ON THE TOPAZ GROUP

Prepared for
URADO URANIUM, INC.
304 Main Street
Grand Junction, Colorado

INTRODUCTION

This report is prepared for URADO URANIUM, Inc., by Geo-Engineering for the purpose of applying for a DMEA loan on the Topaz Group of claims. DMEA Form MF-103 has been signed and is attached (see Exhibit 1). Numbers and letters preceding the headings contained in this report refer to part of the said form.

ABSTRACT

With Form MF-103 attached as Exhibit 1, this report is an application for a Defense Mineral Exploration Administration project contract of the short form or unit cost type. A $117,976.00 project is recommended for exploring the uranium potential on the Topaz Group of claims located in Big Gypsum Valley in Northwestern San Miguel County, Colorado (see Figure 1). A calculated total of 21,985 feet of core drilling is proposed on this property at an estimated cost of $5.27 per foot. Custom assaying is not included in the unit cost, however, $2100 is included in the proposed total expenditure for this purpose. Twenty-five per-cent of the total expenditure or $29,494.00 will be paid by URADO URANIUM, Inc., the applicant, while the Defense Minerals Exploration Administration is asked to loan $88,482.00.

The location of 22 holes to be drilled in Stage I drilling are shown on Figure 4. As the work progresses, it may become evident that some of the proposed holes have been located in areas geologically unfavorable for ore. For this particular reason, URADO URANIUM, Inc., would appreciate the privilege of deciding whether or not a previously proposed hole should be drilled. It is requested that footage saved in this manner be transferred with the permission of the DMEA Field Team to other sectors of the Topaz Group that might possibly give more satisfactory results.

The Topaz Group lies along the southern rim and slopes of Big Gypsum Valley in the heart of "The Uravan Mineral Belt" as defined by the United States Geological Survey in their Bulletin 988-A (see Figure 1).

Skilled labor, materials and equipment are available in the Naturita-Uravan district. Personnel of Geo-Engineering will act as consulting geologists on the project.

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1. NAME OF APPLICANT

a. URADO URANIUM, Inc., 304 Main Street, Grand Junction, Colorado.

b. URADO URANIUM, Inc., is a Colorado Corporation with its offices at 304 Main Streét, Grand Junction, Colorado.

c. The officers are:

President and Director
M. E. Newlove
Aspen, Colorado

Vice-President and Director
Louis P. Gaggini
Norwood, Colorado

Secretary-Treasurer and Director
Albert Merle Echternach
Palisade, Colorado

Directors
Roy Stone
Clathe, Colorado

Harold A. Culp
1200 Texas Avenue
Grand Junction, Colorado

Lewis D. Anderson
312 Hill Avenue
Grand Junction, Colorado

d. Omitted - Not a partnership.

2. GENERAL

The following report, which is the completed DMEA application written in accordance with the instructions given in the DMEA Order No. 1, includes the completed Form MF-103 and all the necessary substantiating papers.

The letters and numbers used in the headings herein refer to those used on Form MF-103. This report is designed to fill in the information that, due to space limitations, could not be placed on the MF-103 form.

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In accordance with instructions given on Form MF-103, this report will be filed in quadruplicate at the office of Mr. W. M. Traver, Executive Officer, DMEA Field Team, Region IV, 224 New Custom House, Denver 2, Colorado.

3. APPLICANT'S PROPERTY RIGHTS

a. & b. Legal Description and Name of Property

Exploration work is to be performed on eight unpatented mining claims referred to in this report as the Topaz Group. The claims are located in Township 44 North, Range 18 West, New Mexico Principal Meridian, in the Lower San Miguel Mining District of San Miguel County, Colorado. The claims lie in Sections 9, 10, 15 and 16 (see Figure 3).

c. Interest

URADO URANIUM, Inc., leased this property from Simpson Mining Co., Arthur Hamilton, Otis Phillips, Jr., John W. Harris, W. D. McDavid, Rex Phillips and Graham B. Ladd, shown as Exhibit 2.

d. Outstanding Liens

The only obligations against the property are those provisions set forth in the mining lease, shown as Exhibit 2. A Consent to Lien, Form MF-203, will be furnished when needed.

e. & f. Record of Title

All transactions affecting title to the claims are recorded in the office of the County Clerk and Recorder of San Miguel County at Telluride, Colorado. The claims were recorded as follows:

Claim Name	Original Recording Date	Book	Page	Circ. 7 Recording Date	Book	Page	Public Law 585	Book	Page
Topaz 1	17 Apr 53	216	421	17 Feb 54	229	5	27 Aug 54	240	499
Topaz 10	17 Apr 53	216	425	17 Feb 54	229	14	27 Aug 54	240	508
Topaz 11	17 Apr 53	216	426	17 Feb 54	229	15	27 Aug 54	240	509
Topaz 13	17 Apr 53	216	426	17 Feb 54	229	16	26 Aug 54	240	510
Topaz 22	30 Apr 53	216	430	17 Feb 54	229	24	26 Aug 54	240	518
Topaz 23	30 Apr 53	216	431	17 Feb 54	229	25	26 Aug 54	240	519
Topaz 24	30 Apr 53	216	431	17 Feb 54	229	26	26 Aug 54	240	520
Topaz 25	30 Apr 53	216	431	17 Feb 54	229	27	26 Aug 54	240	521

Notice of withdrawal of Circular 7, Lease Application, on all of these claims were filed on 28 September 1954 in Book 241, Page 317.

The original certificates are shown as Exhibits 3 thru 10; Public Law 585 Amended Certificates are shown as Exhibits 11 thru 18.

4. PHYSICAL DESCRIPTION OF PROPERTY

a. Operations

There has been no mining on these claims. Some exploratory drilling has been done on Topaz 1 claim (see Exhibits 19 and 20). An open cut has been made on the south end of Topaz 1 but was not deep enough to expose the ore zone.

There is an access road crossing part of the Topaz Group.

b. Productions and Ore Reserves

The Topaz Group has had no past production and there are no proven ore reserves.

c. Geological Features

Stratigraphy: The proposed drill holes (see Figure 4 and Schedule 3) will be collared in the Brushy Basin or Salt Wash members of the Jurrassic Morrison formation except for small localized area that is covered by landslide deposits. All holes will be drilled to the red clay that underlies the lowest sandstone lense in the ore horizon as determined from data accumulated in the nearby Bull Canyon District and checked with information from Uranium Ventures, Inc., and United States Vanadium Corporation on nearby claims.

The ore horizon in the Topaz area lies between two stratigraphic planes that are about 120 feet apart. The lower plane lies about 180 feet above the base of the Salt Wash member. The upper plane lies about 150 feet below the top of the Salt Wash member (see Figure 5). The sandstone lenses at this stratigraphic interval have been the host rocks for most of the area's uranium production.

Information on the thickness of the beds was obtained from geologic maps of the area, and from the nearby Bull Canyon quadrangle which has been mapped by the U.S.G.S.

Formations older than the Morrison are not differentiated or discussed in this report as they have no bearing on the exploration project.

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Structure: The Topaz Group is located along the southwest rim of the Big Gypsum Valley Graben. The area, embracing the claims, is extremely faulted with the formations varying in dip from as much as 13° northeasterly to 12° southwesterly. The general strike of the faults is north 60° west.

A small syncline, with axis following the strike of the faults, passes through the center of the Group. To the northwest, an anticline with the same general trend crosses the end boundaries of several claims.

Surface exposure reveals only the two members of the Morrison formation and the landslide areas.

Ore Deposits: There are no known ore deposits on the Topaz Group, however, within a one-half mile radius of this property, considerable work has been done in twelve small adits for prospecting purposes. Small quantities of high grade ore was shipped from these workings in the early radium boom.

Justification of Exploration: The Topaz Group lies in the heart of the "Uravan Mineral Belt" (see Figure 1). This belt has been defined by the United States Geological Survey in Bulletin 988-A as "a narrow, elongate area in southwestern Colorado in which carnotite deposits in the Morrison formation have a closer spacing, larger size and higher grade than those in adjoining areas. The belt extends from Gateway through Uravan to Slick Rock."

The United States Vanadium Company has three patented claims, Uncle Sam, Eclipse and Indian Henry, in this area bordering the Topaz Group to the north and east (see Sigure 4). Some ore has been produced from the Uncle Sam and Donald Hill claims but exact figures as to tonnage and grade are not available. Recent drilling on these two claims has resulted in some new discoveries.

To the southwest in the Slick Rock district, the Veta Mad, Veta Glad, Ellison and Herbert claims are producing large tonnages of high grade ore.

South of the Topaz Group, the U.S.G.S. has discovered sizable ore bodies during recent exploratory drilling.

d. Accessibility

The Topaz Group lies along the southern rim and slope of Big Gypsum Valley. The claims can be reached over 12 miles of graveled road that connects with Colorado State Highway 80. The distance to the Vanadium Corporation of America mill at Naturita, Colorado, is approximately 40 miles and it is about 55 miles to the United States Vanadium Company mill at Uravan, Colorado. It is approximately 155 miles to the Durango mill of the Vanadium Corporation of America and 75 miles to the A.E.C. mill at Monticello, Utah.

Supplies and all necessary equipment can be obtained either at Naturita or Uravan, Colorado. Permanent settlements with motor freight depots are located at both places. Railroad and airline facilities are available at Grand Junction, Colorado at a distance of 175 miles by road and 70 miles by air.

e. Availability of Manpower, Equipment, Supplies, etc.

Manpower, skilled in performing the type of drilling planned, is readily available in the area as are dependable outlets for materials and supplies.

The equipment to be used on this project will be furnished by private contractors.

Geo-Engineering, a professional engineering firm, will supply surveying instruments and transportation for technical personnel. This firm maintains offices at Norwood, Colorado, 50 miles from the Topaz Group, and at Grand Junction, Colorado, 175 miles from the property.

Drilling water will be hauled from the Dolores River about 4 miles away.

5. THE EXPLORATION PROJECT

a. Mineral

Uranium

b. Proposed Work

Drills for the project will be provided by private drilling companies under contract.

It is estimated that it will require 12 months to complete the project with 1 drill. The employment of more than 1 drill would result in inadequate geologic control, wasted footage, and an increase in exploration costs per ton of ore discovered.

Proposed holes are shown on Figure 4. Estimated hole depths are listed in Schedule 1, and 22 core drill holes are listed in Schedule 2 for Stage 1 drilling. 33 core drill holes are listed for Stage II. Intelligent selection of locations for all of these holes is impossible at this time. It is recommended, therefore, that a DMEA contract be allowed for a 55 core drill hole project, and that the selection of locations for the Stage II holes be made with the approval of the Defense Minerals Exploration Administration Field Team after the data from some of the preliminary

drilling has been compiled. It is presumed that most of this Stage II drilling will be around Stage I holes that have penetrated ore. It is a certainty that all Stage II locations will be in areas where Stage I drilling has revealed favorable geology.

Logging and Sampling: A sampler who will also act as a field assistant for surveying will be employed to supervise the logging and sampling. An accurate log will be kept by the driller, and all barren core will be arranged on the ground and properly marked so that the geologist or sampler can carefully check the driller's log. Core from each run will be carefully dropped out of the core barrel into a wooden trough provided for that purpose by the drilling contractor. The sampler or other competent individual will then examine the core, using a field gamma ray detecting device. If any trace of mineralization is found, the complete core "run" will be arranged in a core box provide with a hinged lid, and will be kept until such time as the geologist will have been able to properly sample the core.

Each sample will be carefully described by the geologist in a bound field book as it is placed in the sample sack. Core losses will be prorated proportionately regardless of lithology. All samples will be sent to commercial assayers for percentage determination of U_3O_8, V_2O_5 and $CaCO_3$.

Geologic Control of Drilling: Urado Uranium, Inc., asks the privilege of not drilling any of the proposed holes shown on Figure 4, if, in the opinion of the company's geologist, they fall in an area which, based on previous drilling information, is considered unfavorable. Footage thus saved would be used in more favorable areas, at locations approved by the DMEA Field Team. The criteria used to determine unfavorable areas will, in general, be the same as those used by the United States Geologic Survey and the United States Atomic Energy Commission in their drilling programs. These are discussed in a report by Doris Blackman Wier (Wier, Doris Blackman, 1952, Geologic Guides to Prospecting for Carnotite Deposits on the Colorado Plateau, U.S. Geological Survey Bulletin 988-B) and the reader is referred to this writing for the information lacking in this brief discussion.

The presence of gray-green mudstone at the base of a potential ore-bearing sandstone has been an excellent guide to ore. When Stage I holes penetrate 1 foot or more of the gray-green mudstone at the base of a potentially ore-bearing sandstone which is over 30 feet, Urado Uranium, Inc., might recommend Stage II drilling around such holes to the DMEA Field Team.

Drilling Plan: The drilling plan recommended to the Defense Minerals Exploration Administration and to Urado Uranium, Inc., is as follows:

1. The 22 proposed core drill holes as shown on Figure 4 are arranged in a pattern to cut the predominating trend or orientation of ore bodies in the district (see Figure 2). Generally, holes are placed on a 300 foot by 1000 foot grid oriented

so that the 300 foot dimension is normal to the trend and staggered so that a hole in one row is between two 300 foot spaced holes in the next row. This, in effect, will cut the trend on 150 foot centers.

2. Each row of proposed core drill hole sites are placed as nearly on the level as possible on steep terrain. This will allow more level drill sites and will allow Stage II drilling on the roads between favorable holes.

3. Stage II drilling should be performed only in those areas judged to be favorable. The proposed Stage I drilling is sufficient to produce the negative information necessary to delineate unfavorable areas.

c. Time of Exploration Project Contract

The work will begin within 30 days and be completed within 12 months from the date of an exploration project contract.

d. Ability of Applicant

The officers and directors of URADO URANIUM, INC., have had many years of experience in metal and uranium mining. Most of the field and supervisory work will be done by the consulting firm of Geo-Engineering.

Mr. M. E. Newlove, President of URADO URANIUM, INC., a mining engineer and graduate of Stanford University, has had more than 25 years of mining experience. He was for many years associated with Newmont Mining Corp. For 5 years he was Superintendent of Newmont's North Star Mine in California, and for 8 years he was General Manager of their Resurrection Mining Company in Leadville, Colorado. Subsequently he was Managing-Director of American Smelting and Refining Company's mining operations in West Africa.

Mr. Albert Merle Echternach, Secretary-Treasurer of URADO URANIUM, INC., is well known in the Grand Junction, Colorado, district through his association with the United Fruit Growers Association. He was graduated from Southwestern College, Winfield Kansas, in 1906. Between 1906 and 1921, Mr. Echternach worked in the accounting field including four years as Assistant Cashier of the Palisade, Colorado, bank. From 1923 to 1944, he was Executive Secretary-Treasurer of the United Fruit Growers Association. He was also Manager for the Association for the period from 1935 to 1944. He served as a director of the Association from 1945 to 1948. Since that time, he had developed a very productive peach orchard.

Geo-Engineering, a firm of professional engineers and geologists, with offices conveniently located at Norwood, Colorado, 50 miles from the property, and at Grand Junction, 175 miles from the property, will act as consultants to URADO URANIUM, INC.,

for this project. A brief description of the experience background of the three general partners of Geo-Engineering is given below.

Louis P. Gaggini, Vice-President of URADO URANIUM, INC., and chief geologist for Geo-Engineering, began working in uranium in 1941, as geologist for the Union Mine Development Corporation, a contractor for the United States Army Manhattan Engineering Project. Subsequent experience in carnotite exploration included almost two years with the Exploration Branch of the Atomic Energy Commission in Grand Junction and six months with the United States Vanadium Company. Mr. Gaggini was for two years mining superintendent of the Dulaney Mining Company, where he was in charge of all mining and exploration. This company is at present mining large tonnages from ore bodies which were discovered during that period. From August, 1952, to February, 1954, Mr. Gaggini was manager of the Colorado Uranium Division of the J. R. Simplot Company. During this period Mr. Gaggini successfully prepared applications for and administered for several months two large DMEA projects.

Harold A. Culp, a Director of URADO URANIUM, INC., is a geologist and geophysicist and a copartner in Geo-Engineering with Mr. Gaggini and Mr. Lewis D. Anderson. Since graduating with a degree in economic geology from Oregon State College, Mr. Culp has, in addition to uranium, worked with gold, oil, copper, cobalt and tungsten; this included 6 years' experience in metal mining and 5 years of geophysical prospecting in oil and mining. In addition to mine management for others, he has operated a mine in which he shared a 1/3 investment interest. His work has included the preparation of Defense Minerals Exploration Administration projects and, after approval of loan application by that agency, supervision of the project. During 1953-54, Mr. Culp was project geologist and then acting superintendent of the Bull Canyon mines of the J. R. Simplot Company.

Lewis D. Anderson, a Director of URADO URANIUM, INC., mining engineer, is a graduate from the Colorado School of Mines (registered mining engineer No. 1844 in Colorado). From December, 1946, through 1948, Mr. Anderson worked as engineer and shift boss for the Resurrection Mining Company at Leadville, Colorado. From January, 1949, through April, 1950, he worked as mining engineer in the General Chemical Division of Allied Chemical and Dye. He was mine foreman of the Rico-Argentine Mining Company, Rico, Colorado, from June, 1950, to October, 1951. Mr. Anderson then accepted employment as division engineer for the Dulaney Mining Company in the Gateway, Dove Creek, Monticello, and Gyp Valley areas. From June, 1952, to 1954, Mr. Anderson's duties as mining engineer covered both the mining and milling of uranium-vanadium ores and included jurisdiction over the United States Vanadium Company's uranium operations in the Edgemont, South Dakota, area.

Mr. Roy Stone, a Director of URADO URANIUM, INC., has had a long and varied career in mining on the Colorado Plateau. He freighted radium ore in 1914 from the Mexico group of claims in the Hamm Canyon area. From 1917 to 1921, he packed and

freighted radium ore for the Vanadium Corporation of America. He operated a livestock ranch in Telluride, Colorado, area between 1921 and 1948. From 1948 to 1955, Mr. Stone has been very active in uranium mining. As principal owner and operator, Mr. Stone produced more than $330,000 worth of uranium ore from the Corvusite Mine on Beaver Mesa, Utah, west of Gateway, Colorado. During part of the same period, he operated the Pond and Shubert properties on Beaver Mesa.

6. ESTIMATE OF COSTS

It is the desire of URADO URANIUM, INC., that this exploration project contract be placed on a unit cost basis. Schedule 5 gives the exact amount bid per unit by URADO URANIUM, INC., for performing the exploration work. Custom Assaying is not included in the cost per foot for drilling because of the difficulty of making an accurate estimate. The $6.00 per sample figure bid for custom assaying is the exact amount charged by the A. E. C. approved assayers.

a. Independent Contracts

All drilling and bulldozer work will be performed by independent contractors.

Drilling: The drilling will be done by private contractors. The prices quoted by firms active in the uranium field are used in Schedule 2 and in the unit cost columns. Estimate for the cost of the holes proposed for Stage II drilling is based on one and half holes for each Stage I hole and were pro-rated on the same basis as the estimated Stage I drilling. The drilling cost for Stage I is $22,047.50 and Stage II is $33,131.25. An estimated cost of $9,900.00 is made for reaming of holes. An allowance of $2640.00 is made for casing that might be left in the drill holes.

Bulldozer and Tractors: These are readily available in the district for about $100.00 per day. Because many hole locations will be selected from the results of previous drilling, it is estimated that it will be necessary to have a bulldozer hauled to the Group at least 5 different times at a cost of $100.00 for each round trip. It is estimated that the tractor will work at least 10 days during each visit to the Topaz Group. It is also estimated that a certain amount of rock blasting will have to be done in the preparation of roads and drill sites. An estimated allowance of $600.00 is made for this work.

b. Labor, Supervision, Consultant

Geo-Engineering will supervise, direct, and act as technical consultants for $1,000.00 per month and reasonable expenses (see Schedule 4). A draftsman and stenographer will be employed on a part time basis to prepare necessary project reports (see Schedule 4). The field assistant will be employed by Geo-Engineering or URADO URANIUM, INC., at a minimum of $15.00 per day, to help with surveying and to act as a sampler.

c. Operating Materials & Supplies

$150.00 per month is estimated for the cost of map reproduction and office supplies.

$200.00 is estimated for the cost of field supplies (see Schedule 4).

d. Operating Equipment

All operating equipment will be provided by independent contractors or by Geo-Engineering.

e. Rehabilitation & Repairs

None needed.

f. New Buildings, Improvements & Installations

It will be necessary for the project personnel to live on the property as it is some distance from a town. Provisions are here made for the rental of one house trailer that will be moved to the Topaz property (see Schedule 4).

g. Miscellaneous

$100.00 per month is allowed to cover office and miscellaneous supervision to be performed by the personnel of URADO URANIUM, INC.

Payroll taxes on the field assistant, draftsman and typist are estimated at 10%. The cost of analytical work is not covered in the cost per foot. A separate unit cost of $6.00 per sample is added in Schedule 5.

h. Contingencies

Independent contractors vary the charge for drilling with the depth of the hole (see Schedules 2 & 3). A glance at Schedules 2 and 3 will show that it is possible that some of the Stage II drilling may exceed estimation. 15% is added to cover this possible increase.

Estimates to cover payments to contractors for trail building and drill site preparation may be inadequate. It is possible that some of the trails crossing sandstone ledges might require more rock drilling and blasting than is estimated. This contingency is, also, covered in the above 15%.

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Labor, supervision and consultants payments are on a monthly or hourly basis. Any event which might prolong the project will increase the cost of this item. 10% is added to cover these possible increases.

Operating material and supplies are estimated at a minimum. The destruction of a few core boxes or some other unforeseen consumption of materials and supplies might easily increase the cost of this item 20%.

New buildings, improvements, etc: In the event of any prolonging of the project, some personnel would have to remain on the property. 20% is added for this contingency.

Miscellaneous costs are estimated at $158.00 per month. 50% is added to provide for any extra help and for unforseen taxes.

7. APPLICANT'S SHARE OF COST

a. & b.

In accordance with the Defense Minerals Exploration Administration regulations, URADO URANIUM, INC., is prepared to assume 25% of the cost of this project in the following manner, to wit:

The company will perform all of the necessary work and pay for all of the labor, materials and supplies. Reimbursement by the DMEA will be in accordance with Schedule 5 less 25% (i.e., the amount to be loaned by the Government for each unit of work performed will be 25% less than the amounts shown in Schedule 5).

Respectfully submitted,

GEO-ENGINEERING

Louis P. Gaggini
LOUIS P. GAGGINI

Lewis D. Anderson
LEWIS D. ANDERSON

Harold A. Culp
HAROLD A. CULP

GEO-ENGINEERING
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SCHEDULE 1

CORE DRILL HOLE DEPTHS

Hole No.	Claim Name	Estimated Collar Elev.	Estimated Bottom Elev.	Estimated Depth
1	Topaz 11	6130	5800	330
2	Topaz 11	6225	5900	325
3	Topaz 11	6190	5800	390
4	Topaz 11	6240	5700	540
5	Topaz 10	6210	5700	510
6	Topaz 23	6260	5700	560
7	Topaz 23	6340	5680	660
8	Topaz 23	6320	5660	660
9	Topaz 23	6270	5630	640
10	Topaz 24	6230	5690	540
11	Topaz 24	6300	5660	640
12	Topaz 24	6340	5650	690
13	Topaz 24	6280	5620	660
14	Topaz 25	6230	5610	620
15	Topaz 13	5640	5600	40
16	Topaz 13	5660	5630	30
17	Topaz 13	5700	5660	40
18	Topaz 13	5720	5600	120
19	Topaz 13	5740	5620	120
20	Topaz 13	5720	5650	70
21	Topaz 1	6060	5700	360
22	Topaz 1	6020	5780	240
			TOTAL FOOTAGE	8,785

CORE DRILL HOLE DEPTHS

SCHEDULE 1

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Grand Junction, Colorado

APPLICATION FOR DMEA PROJECT ON THE TOPAZ GROUP, PREPARED FOR URADO URANIUM, INC., 304 MAIN STREET, GRAND JUNCTION

SCHEDULE 2

DRILLING SUMMARY

Hole No.	Est. Depth	Est. Non-Coring	Est. 0'-200'	Est. 200'-300'	Est. 300'-400'	Est. 400'-500'	Est. 500'-600'	Est. 600'-700'
1	330	130	70	100	30			
2	325	125	75	100	25			
3	390	190	10	100	90			
4	540	340			60	100	40	
5	510	310			90	100	10	
6	560	360			40	100	60	
7	660	460				40	100	60
8	660	460				40	100	60
9	640	440				60	100	40
10	540	340			60	100	40	
11	640	440				60	100	40
12	690	490				10	100	90
13	660	460				40	100	60
14	620	420				80	100	20
15	40		40					
16	30		30					
17	40		40					
18	120		120					
19	120		120					
20	70		70					
21	360	160	40	100	60			
22	240	40	160	40				
TOTALS	8,785	5,165	775	440	455	730	850	370
Price per foot		2.00	2.25	2.50	2.75	3.25	4.00	5.00
Costs		10,330.00	1743.75	1100.00	1251.25	2372.50	3400.00	1850.00

TOTAL COST, STAGE I - - - - $22,047.50

DRILLING SUMMARY

SCHEDULE 2

GEO-ENGINEERING
304 Main Street
Grand Junction, Colorado

APPLICATION FOR DMEA PROJECT ON THE TOPAZ GROUP, PREPARED FOR URADO URANIUM, INC., 304 MAIN STREET, GRAND JUNCTION

SCHEDULE 3

ESTIMATE OF AMOUNTS TO BE PAID TO INDEPENDENT CONTRACTORS

Explanation	Unit	No. of Units	Cost per Unit	Total cost each Item	Grand Total
Drilling Contractor					
Stage I Drilling (see Schedule 2)	Feet	8,785	$ 2.51		$ 22,047.50
Stage II Drilling					
33 Holes at 400 feet Average Depth					
Non-coring	Feet	7,760	2.00	$ 15520.00	
Coring - 0'-200'	Feet	1,160	2.25	2610.00	
200'-300'	Feet	660	2.50	1650.00	
300'-400'	Feet	690	2.75	1897.50	
400'-500'	Feet	1,095	3.25	3558.75	
500'-600'	Feet	1,280	4.00	5120.00	
600'-700'	Feet	555	5.00	2775.00	
Total Stage II Drilling		13,200	$ 2.51		$ 33,131.25
Reaming (50% of Stage II footage)	Feet	6,600	1.50		9,900.00
Casing (20% of reaming footage)	Feet	1,320	2.00		2,640.00
Road & Drill Site Building					
Moving Dozer to & from Property	Round Trip	5	100.00		500.00
Dozer Rental	Day	50	100.00		5,000.00
Compressor & Blasting	Day	12	50.00		600.00
TOTAL ESTIMATED AMOUNTS TO BE PAID TO INDEPENDENT CONTRACTORS	Feet	21,985	$ 3.36		$ 73,818.75

ESTIMATE OF AMOUNTS TO BE PAID TO INDEPENDENT CONTRACTORS

SCHEDULE 3

GEO-ENGINEERING
304 Main Street
Grand Junction, Colorado

APPLICATION FOR DMEA PROJECT ON THE TOPAZ GROUP, PREPARED FOR URADO URANIUM, INC., 304 MAIN STREET, GRAND JUNCTION

SCHEDULE 4

ESTIMATED COSTS UNDER 6b, 6c, 6f & 6g, MF-103

Explanation - Heading and Letter	Cost per Hour	Cost per Day	Cost per Month	Cost per Project	Unit Cost per MF-103 Heading
6 (b) Labor, Supervision and Consultants					
Geo-Engineering Fees			$1000.00	$12,000.00	
Geo-Engineering Expenses		$10.00	250.00	3,000.00	
Draftsman 50 hrs/month	$3.00		150.00	1,800.00	
Typist 50 hrs/month	2.25		112.50	1,350.00	
Sampler & Field Assistant		15.00	375.00	4,500.00	
Total under 6 (b) of MF-103 (21,985')				$22,650.00	$1.03
6 (c) Operating Materials & Supplies					
Office supplies, map & drill log reproductions for Monthly reports & other correspondence with DMEA			150.00	1,800.00	
Survey stakes & other field supplies				200.00	
Total under 6 (c) of MF-103 (21,985')				$ 2,000.00	$0.09
6 (f) New Building, Installations, etc. 1 trailer house for project personnel (Rental)			50.00	600.00	
Total under 6 (f) of MF-103 (21,985')				$ 600.00	$0.027
6 (g) Miscellaneous					
Accounting expense, etc.			100.00	1,200.00	
Payroll taxes estimated at 10% of $637.50			63.75	765.00	
Total under 6 (g) of MF-103 (21,985')				$ 1,965.00	$0.09

ESTIMATED COSTS UNDER 6b, 6c, 6f & 6g, MF-103

SCHEDULE 4

GEO-ENGINEERING
304 Main Street
Grand Junction, Colorado

APPLICATION FOR DMEA PROJECT ON THE TOPAZ GROUP, PREPARED FOR URADO URANIUM, INC., 304 MAIN STREET, GRAND JUNCTION

SCHEDULE 5

SUMMARY OF COSTS

	Units	No. of Units	Cost per Unit	Total Cost per Item	Grand Total
6a-Independent Contractors (Sch. 3)	Feet	21,985	$3.36	$73,818.75	
6b-Labor, Supervision & Consultants (Schedule 4)	Feet	21,985	1.03	22,650.00	
6c-Operating Materials & Supplies (Schedule 4)	Feet	21,985	0.09	2,000.00	
6d-Operating Equipment	None				
6e-Rehabilitation & repair	None				
6f-New Building, Installations (Schedule 4)	Feet	21,985	0.027	600.00	
6g-Miscellaneous (Schedule 4)	Feet	21,985	0.09	1,965.00	
6h-Contingencies					
For (a) above - 15%				11,073.00	
For (b) above - 10%				2,265.00	
For (c) above - 20%				400.00	
For (f) above - 20%				120.00	
For (g) above - 50%				984.00	
Calculated Unit Cost	Feet	21,985	$5.27		$115,875.75
Calculated Cost of Project using Unit Cost Bid and before allowance for Analytical Work	Feet	21,985	$5.27		115,876.00
Analytical Work					
U_3O_8 Analysis	Sample	350	$3.50	1,225.00	
V_2O_5 Analysis	Sample	350	1.50	525.00	
$CaCO_3$ Analysis	Sample	350	1.00	350.00	2,100.00
					$117,976.00
Total Cost of Project during DMEA Participation- -					$117,976.00
Less 25% to be paid by URADO URANIUM, INC.- - - - - - - - - - - - - - - - - - - -					29,494.00
AMOUNT OF DMEA LOAN REQUESTED -					$ 88,482.00

SUMMARY OF COSTS

SCHEDULE 5

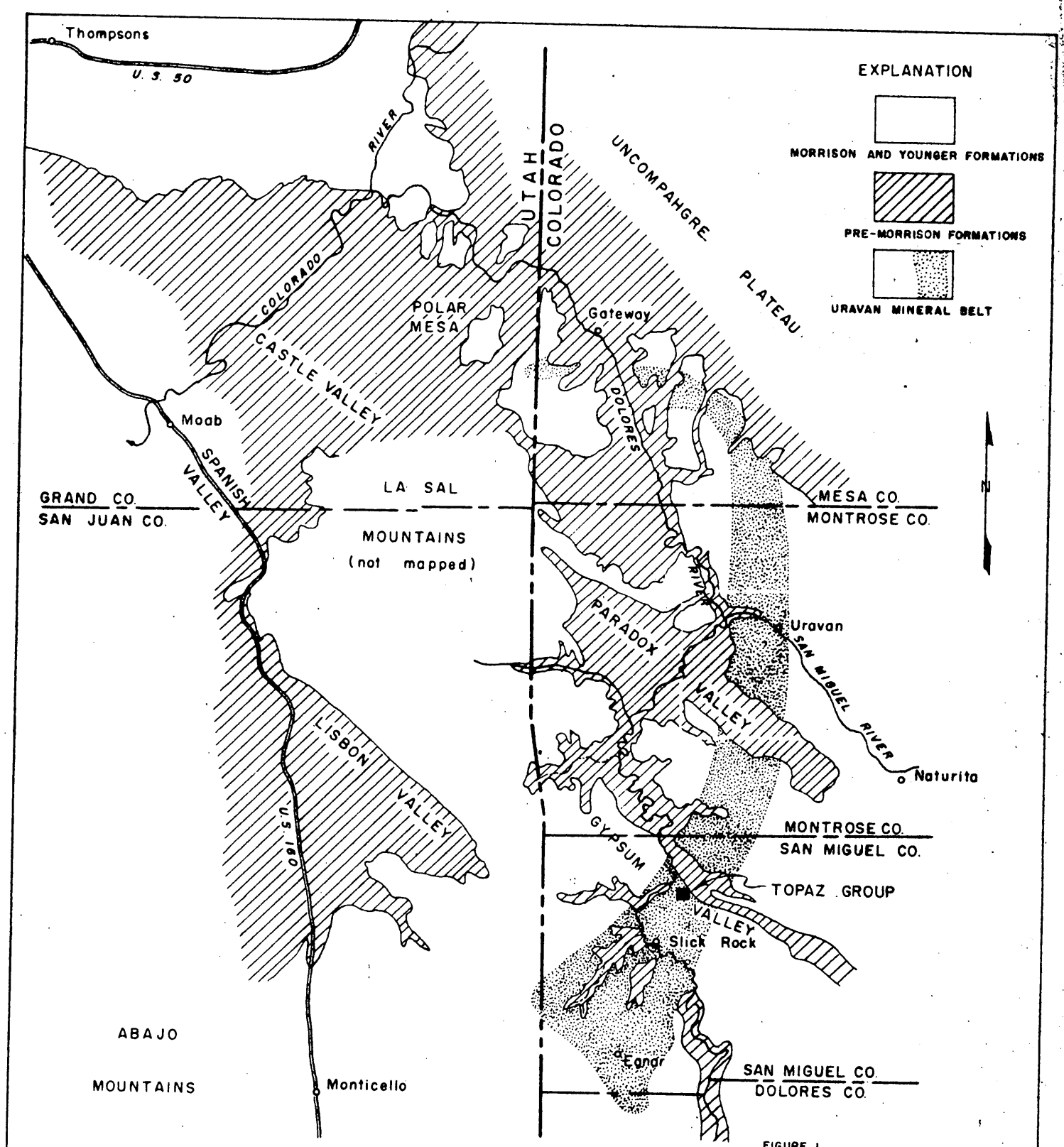
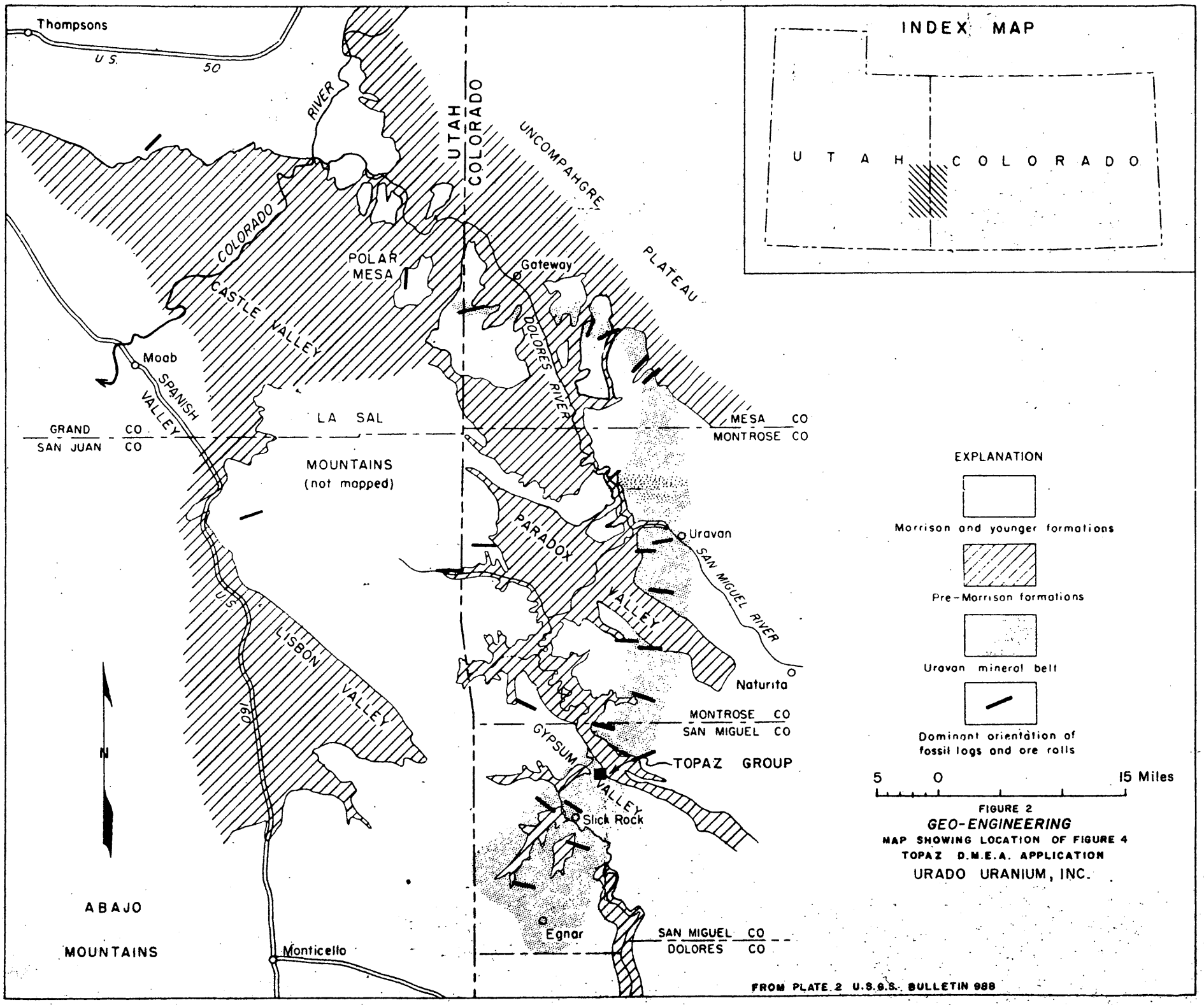


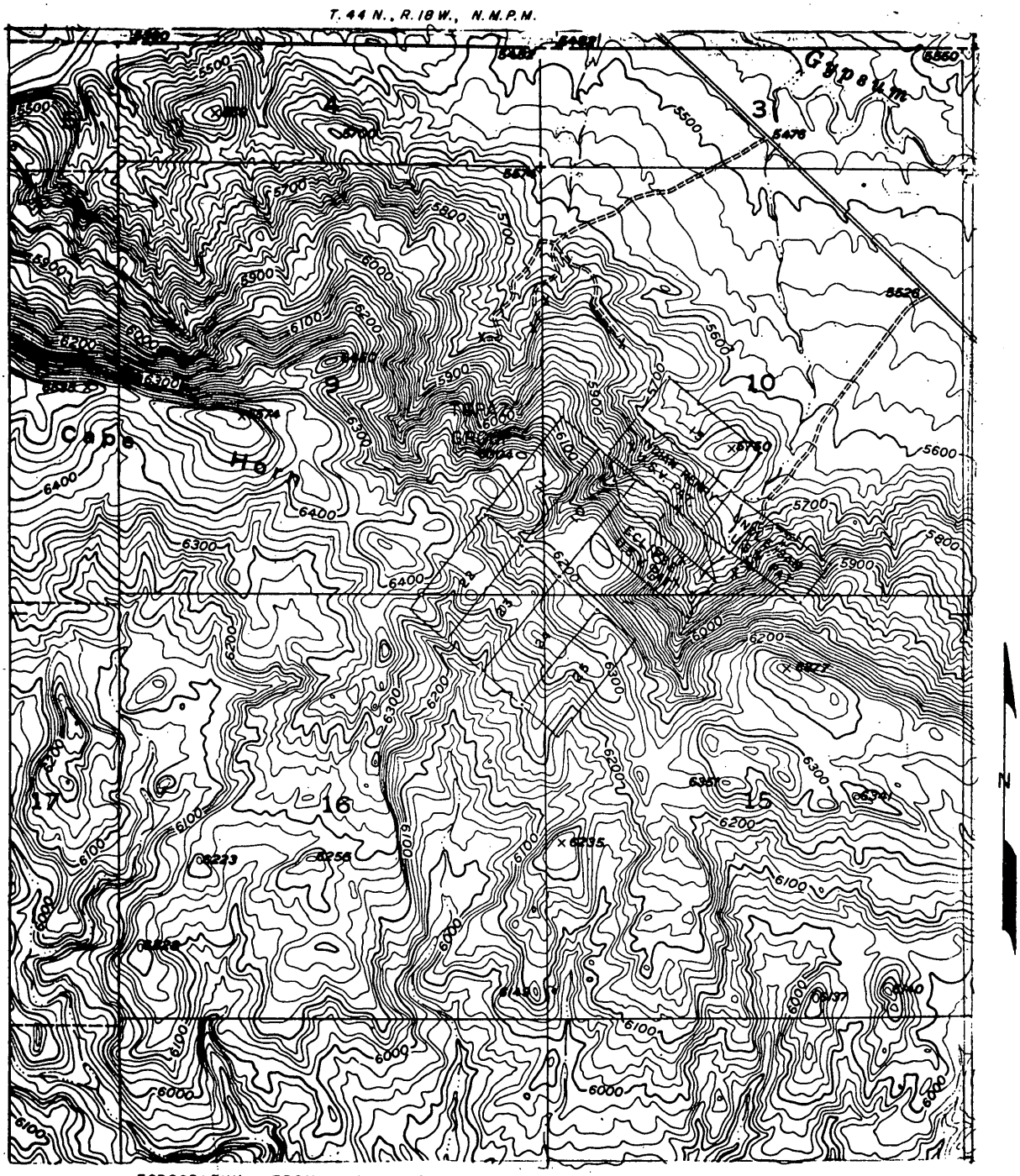
FIGURE 1
GEO-ENGINEERING
MAP OF URAVAN MINERAL BELT
SHOWING
LOCATION OF
TOPAZ D.M.E.A. APPLICATION
URADO URANIUM, INC.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 1 4 1955



MAP OF PART OF COLORADO AND UTAH, SHOWING THE DOMINANT ORIENTATION OF THE FOSSIL LOGS AND ORE ROLLS

Defense Minerals Administration
RECEIVED
MAR 14 1955



TOPOGRAPHY FROM U.S.G.S. QUADRANGLE HAMM CANYON

FIGURE 3

GEO-ENGINEERING

MAP

SHOWING

TOPAZ CLAIMS

URADO URANIUM, INC.

Scale: 1" = 2000'

INTERIOR
Administration
MAR 1 4 1955

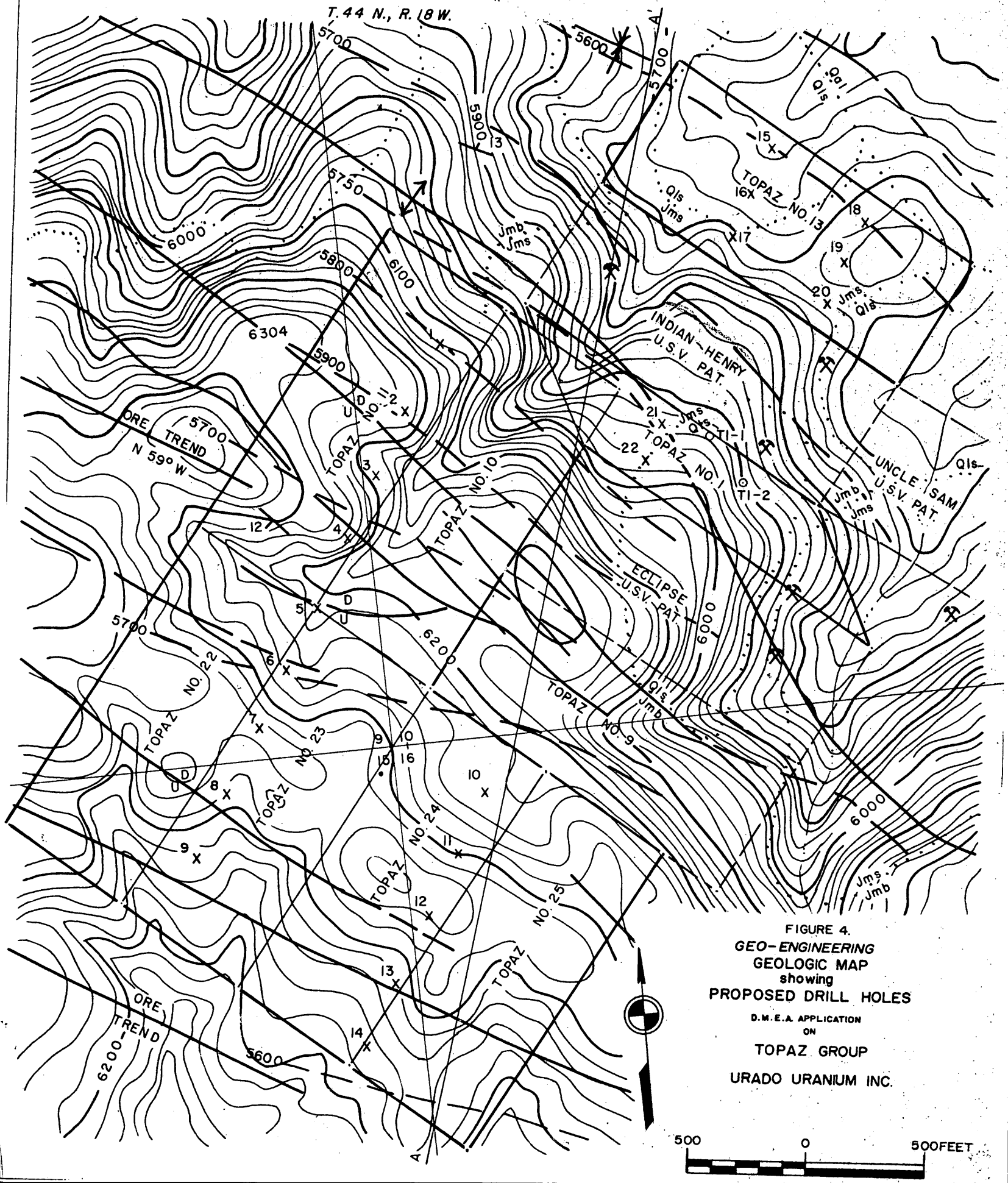


FIGURE 4.
GEO-ENGINEERING
GEOLOGIC MAP
showing
PROPOSED DRILL HOLES
D.M.E.A. APPLICATION
ON
TOPAZ GROUP
URADO URANIUM INC.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 1 4 1955

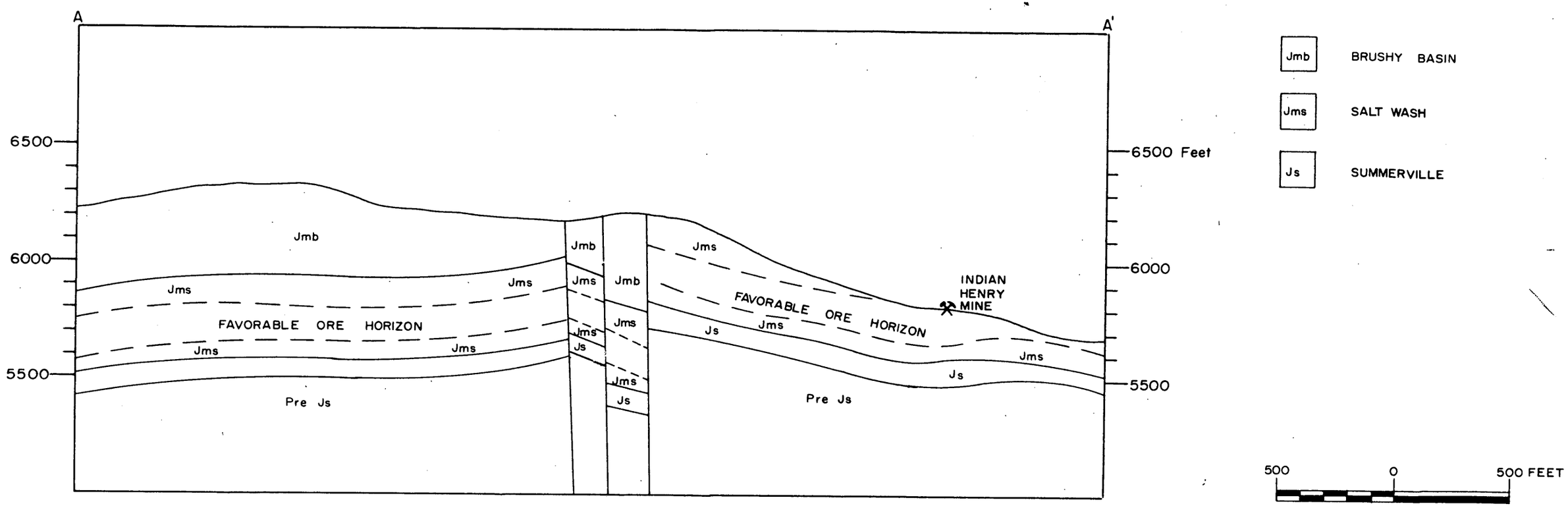


FIGURE 5

GEO-ENGINEERING

SECTION A-A' FROM FIGURE 4

D.M.E.A. APPLICATION

ON

TOPAZ GROUP

URADO URANIUM INC.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

MAR 1 4 1955

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Defense Minerals Administration
RECEIVED
MAR 14 1955

Not to be filled in by applicant

Docket No. 3719
Metal or Mineral Uranium
Date Received 3-14-55
Estimated Cost $117,976
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: [illegible]

(*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. Colorado Corporation

(*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. [illegible]

(*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 Lessee (See Exhibit 2)

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. (See Exhibit 2)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☒ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated ..... February 20 ....., 195[illegible]

..... (Applicant)

By Louis P. Dayzisi

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

MINING LEASE

THIS AGREEMENT, Made and entered into in duplicate as of March 16, 1954, between ALAN M. SIMPSON and JULIAN E. SIMPSON, mining partners doing business as Simpson Mining Company, of Grand Junction, Colorado; ARTHUR HAMILTON and OTIS PHILLIPS, JR., both of Dallas, Texas; JOHN W. HARRIS, W. D. McDAVID, REX PHILLIPS and GRAHAM B. LADD, all of San Antonio, Texas, parties of the first part hereinafter called Lessors and LOUIS P. GAGGINI, of Norwood, Colorado, party of the second part, hereinafter called Lessee, WITNESSETH:

That lessors, in consideration of the royalties hereinafter reserved and the covenants and agreements hereinafter expressed and by lessee to be kept and performed, hereby grant, demise and lease to lessee the following-described lode mining claims in Lower San Miguel Mining District, County of San Miguel and State of Colorado, the location certificates thereof being duly of record in the office of said county as follows:

Department of Defense Minerals Administration
RECEIVED
MAR 14 1955

NAME OF CLAIM	BOOK	PAGE
Topaz No.1	216	421
Topaz No. 13	216	426

TO HAVE AND TO HOLD Unto Lessee for a term of five years from the date hereof, with a right to renew said lease at its expiration for an additional term of five years, unless sooner forfeited through the violations of any covenant herein required to be performed by lessee, with a right to surrender this lease as hereinafter set forth.

In consideration of such lease, LESSEE COVENANTS AND AGREES With Lessors as follows, to-wit;

1. To enter upon and commence actual operations on said mining claims on or before May 1, 1954, and perform exploration and development work by expending a minimum of $500.00 each three months and, if commercial ores are discovered, to mine and ship ores of a minimum value of $500.00 each three months period; it being understood and agreed that if lessee is unable to mine ores of $500.00 in value during each three months, but shall mine some ores, he shall expend in exploration and development to make up the difference between the value of such ores and said minimum of $500.00. The first three month period shall commence on May 1. 1954.

2. To cause to be paid to lessors a royalty of 15% of the proceeds of ores mined and sold from any of said claims, including 15% of any bonus payment paid by the Atomic Energy Commission, less however development and haulage allowances. All such ores shall be shipped in the joint names of lessors and lessee and payment of such royalties shall be made as follows: 3.75% to Simpson Mining Company, 304 Main St., Grand Junction, Colorado, and 11.25% to W. D. McDavid, Trustee, 918 Milam Building, San Antonio, Texas, and Lessee shall be under no liability for the allocation thereof among said lessors.

3. To keep full and accurate records of all operations carried on hereunder, including drilling records, maps and assays, open to inspection of lessors, or their agent, at all reasonable times, and to permit lessors, or their agent, full and free access to said claims for the purposes of inspection and otherwise. To furnish lessors with true copies of all drilling records, maps, assays and other relevant information with respect to lessee's mining operations.

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

4. To carry on all mining operations in strict conformity with all laws and regulations pertaining to such operations, to carry Workman's Compensation Insurance, and to pay all State and Federal taxes and exactions under operations hereunder, including any production taxes, and to save and keep harmless lessors from any and all liability of every kind and character arising out of their mining operations hereunder.

Exhibit No. 2

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

6. Lessors heretofore located the two mining claims known as Topaz No. 1 and Topaz No. 13. Subsequently, it was found said claims are located within the area covered by oil and gas lease 054367. Lessors have posted and recorded notices of lease application upon said claims as provided by Circular 7 of the Atomic Energy Commission. They agree that they will apply for a mining lease thereon pursuant to the provisions of said circular, and, in the event of its issuance to them, they will sub-lease the same to Lessee subject to the terms thereof, and subject to the payment of a royalty of 15% of the proceeds of ores mined and sold therefrom as provided by the provisions of paragraph 2.

MUTUAL COVENANTS

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

Lessee shall have no right to assign or sublet this lease, or any part of said mining claim, without the written consent of lessors first had and obtained.

IT IS FURTHER AGREED That lessee shall have an option to renew this lease for an additional term of five years from its expiration upon the same terms and conditions as are set forth herein, provided lessee has faithfully kept and performed each of the covenants and conditions herein provided to be kept and performed by it.

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

All of the provisions herein contained shall inure to and be binding upon the heirs and personal representatives of lessors, and lessee and their lawful assigns.

WITNESS Their names.

(signed) Julian E. Simpson By a partner of the Simpson Mining Co.	(signed) W. D. McDavid Lessor
(signed) Arthur Hamilton Lessor	(signed) Rex Phillips Lessor
(signed) Otis Phillips, Jr. Lessor	(signed) Graham B. Ladd Lessor
(signed) John W. Harris Lessor	(signed) Louis P. Gaggini Lessee

CERTIFIED A TRUE COPY: C. W. SMOAD

Exhibit No. 2

MINING LEASE

THIS AGREEMENT, Made and entered into in duplicate as of November 9, 1954 between ALAN M. SIMPSON and JULIAN E. SIMPSON, mining partners doing business as SIMPSON MINING COMPANY of Grand Junction, Colorado; ARTHUR HAMILTON and OTIS PHILLIPS, JR., both of Dallas, Texas; JOHN W. HARRIS, W. D. McDAVID, REX PHILLIPS and GRAHAM B. LADD, all of San Antonio, Texas, parties of the first part hereinafter called Lessors and URADO URANIUM, INC., a Colorado Corporation whose address is 304 Main Street, Grand Junction, Colorado, party of the second part, hereinafter called Lessee, WITNESSETH:

That Lessors in consideration of the sum of Six Hundred Dollars ($600.00), receipt of which is hereby acknowledged, and the delivery of 60,000 shares of capital stock as hereinafter set forth, and of the royalties hereinafter reserved and the covenants and agreements hereinafter expressed and by Lessee to be kept and performed, hereby grant, demise and lease to Lessee the following described lode mining claims in Lower San Miguel Mining District, County of San Miguel and State of Colorado, the location certificates and amended location certificates thereof being duly of record in the office of said county as follows:

NAME OF CLAIM	LOCATION CERTIFICATE BOOK	LOCATION CERTIFICATE PAGE	AMENDED LOCATION CERTIFICATE BOOK	AMENDED LOCATION CERTIFICATE PAGE
Topaz No. 10	216	425	240	508
Topaz No. 11	216	426	240	509
Topaz No. 22	216	430	240	518
Topaz No. 23	216	431	240	519
Topaz No. 24	216	431	240	520
Topaz No. 25	216	432	240	521

EXCLUDING Therefrom all conflicts with Topaz No. 1 lode mining claim recorded in Book 216 at Page 421.

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

In consideration of such lease, LESSEE COVENANTS AND AGREES with Lessors as follows, to wit:

1. To deliver to Lessors Sixty Thousand (60,000) Shares, par value of one cent($0.01) per share, of the capital stock of Urado Uranium, Inc., within seven (7) days after the Securities and Exchange Commission has approved the sale of capital stock in said corporation, such certificates to be issued in the following names and amounts:

Simpson Mining Company	15,000 Shares
Arthur Hamilton	5,400 Shares
Otis Phillips, Jr.	5,400 Shares
John W. Harris	5,400 Shares
W. D. McDavid	18,000 Shares
Rex Phillips	5,400 Shares
Graham B. Ladd	5,400 Shares

2. To make application to U. S. Government for a Defense Minerals Exploration Administration Loan on said mining claims, on or before February 15, 1955. To furnish Lessors with a true copy of said application on or before date of submission.

3. To enter upon said mining claims and to do and perform exploration and development work by expending not less than Six Thousand Dollars

Exhibit No. ~~4~~ 2

($6000.00) on or before the 14th day of May, 1955, and to thereafter perform exploration and development work by expending a minimum of Three Thousand Dollars ($3000.00) each three months (3) and, if commercial ores are discovered, to mine and ship ores of a minimum value of Three Thousand Dollars ($3000.00) each three (3) months period; it being understood and agreed that if Lessee is unable to mine ores of Three Thousand Dollars ($3000.00) in value during each three (3) months, but shall mine some ores, it shall expend in exploration and development to make up the difference between the value of such ores and said minimum of Three Thousand Dollars ($3000.00). The first three (3) month period shall commence on May 15, 1955.

4. To cause to be paid to Lessors a royalty of fifteen (15%) percent of the proceeds of ores mined and sold from any of said claims, including fifteen (15%) percent of any bonus payment paid by the Atomic Energy Commission, less, however, development and haulage allowances. All such ores shall be shipped in the joint names of Lessors and Lessee and payment of such royalties shall be made as follows: 3.75% to Simpson Mining Company, 304 Main Street, Grand Junction, Colorado and 11.25% to W. D. McDavid, Trustee, 918 Milam Building, San Antonio, Texas, and Lessee shall be under no liability for the allocation thereof among said Lessors.

5. To keep full and accurate records of all operations carried on hereunder, including drilling records, maps and assays, open to inspection of Lessors, or their agent, at all reasonable times, and to permit Lessors, or their agent, full and free access to said claims for the purpose of inspection and otherwise. To furnish Lessors with true copies of all drilling records, maps, assays, and other relevant information with respect to Lessee's mining operations.

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

6. To carry on all mining operations in strict conformity with all laws and regulations pertaining to such operations, to carry Workman's Copensation Insurance, and to pay all State and Federal taxes and exactions under operations hereunder, including any production taxes, and to save and keep harmless Lessors from any and all liability of every kind and character arising out of their mining operations hereunder.

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

MUTUAL COVENANTS

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

Lessee shall hve no right to assign or sublet this lease, or any part of said mining claims, without the written consent of Lessors first had and obtained.

2. IT IS FURTHER AGREED That Lessors will execute the "Owners Consent to Lien" in order that Lessee may obtain a Defense Minerals Exploration Administration loan, however, it being understood and agreed that any royalty payment to the United States shall, in no event, reduce the royalty payment heretofore specified to be paid by Lessee.

3. IT IS FINALLY AGREED That upon violation by Lessee of any of the covenants in the foregoing lease, the term of this lease shall, at the option of the Lessors, expire, and the same and said mining claims

Exhibit No. 42

shall become forfeited to Lessors, and Lessors, or their agent, may thereupon enter upon said mining claims and dispossess all persons occupying the same, or, at the option of Lessors, Lessee and all persons found in occupation thereof may be proceeded against as guilty of unlawful detainer, PROVIDED, HOWEVER, that if said lease is forfeited upon the election of Lessors by reason of the failure of Lessee to perform the covenants thereof, Lessors shall give Lessee at least twenty (20) days notice in writing, by registered mail sent to Lessee at Grand Junction, Colorado notifying it of such failure to perform and setting out in said notice the substantial facts as to any such default or breach, and upon failure or refusal by Lessee to cure and correct such default within twenty (20) days from the receipt of such notice, Lessee shall surrender and deliver up the possession of all of said mining claims, and its rights under this lease shall thereupon cease and determine.

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

WITNESS Their names.

Certified a true copy. Certified
C. W. SHOAD

(signed) Julian E. Simpson
By a partner of the Simpson Mining Company

(signed) Arthur Hamilton

(signed) Otis Phillips, Jr.

(signed) John W. Harris

(signed) W. D. McDavid

(signed) Rex Phillips

(signed) Graham B. Ladd
Lessors

(SEAL)

URADO URANIUM, INC.

BY (signed) Louis P. Gaggini
President
Thereunto duly authorized
Lessee

ATTEST:
BY (signed) Lewis D. Anderson
Secretary

Exhibit No. 42

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Carriere County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #1

No. 105472 as it appears of record in my office in Book 216 at page 421

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

No. 1534 Fee No

Charles C. Carriere
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

13 Out West Prtg. & Stat. Co., Colo. Spgs M4172

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 14 1955

NO. 105472

LOCATION CERTIFICATE

On the Topaz No. 1 Lode Mining Claim, in Lower San Miguel Mining District.

Simpson Mining Co.
Locator

STATE OF COLORADO)
County of San Miguel) ss.

I hereby certify that this Location Certificate was filed for record in my office at 4:01 o'clock P. M., April 17, 1953, and is duly recorded in Book 216 Page 421.

Charles C. Carriere
Recorder
By Vivian Peterson
Deputy

KNOW ALL MEN BY THESE PRESENTS, That We the undersigned have located the Topaz No. 1 lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 20 feet on said vein running N 48°26' W from the center of the discovery cut and 1480 feet running S48°26' E from the center of the discovery cut, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Lower San Miguel Mining District, County of San Miguel, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 which is identical with corner No. 2 of Eclipse (Mineral Survey No. #20582); thence N 16°13' W 637 feet to corner No. 2 which is identical with corner No. 3 of Indian Henry (Mineral Survey No. 20581); thence N 48°26' W 1500 feet to corner No. 3 which is identical with corner No. 4 of Indian Henry; thence S 16°13' E 637 feet to corner No. 4 which is identical with corner No. 1 of Eclipse; thence S 48°26' E 1500 feet to corner No. 1, the place of beginning.

Said lode was discovered on the 19th day of January, A. D. 1953 and located on the 19th day of January, A. D. 1953.

Dated this 14th day of March, A. D. 1953.

Simpson Mining Co.	25%	
W. D. McDavid	30%	(SEAL)
Arthur Hamilton	9%	
Otis Phillips, Jr.	9%	(SEAL)
John W. Harris	9%	
Rex Phillips	9%	(SEAL)
Kathleen P. Ladd, or Graham B. Ladd	9%	(SEAL)
J. E. Simpson		(SEAL)
SIMPSON MINING CO.		(SEAL)

Exhibit 3

(CERTIFIED COPY)

STATE OF COLORADO }
COUNTY OF SAN MIGUEL } ss.

I, Charles C. Carriere County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #10

No. 105481 as it appears of record in my office in Book 216 at page 425

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

No. 1535 Fee 10¢

Charles C. Carriere
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

13 Out West Prtg. & Stat. Co., Colo. Spgs M4172

NO. 105481

LOCATION CERTIFICATE

On the Topaz No. 10 Lode Mining Claim, in Lower San Miguel Mining District.

Simpson Mining Co.
Locator

STATE OF COLORADO)
County of San Miguel) ss.

I hereby certify that this Location Certificate was filed for record in my office at 4:10 o'clock P. M., April 17, 1953, and is duly recorded in Book 216, Page 425.

Charles C. Carriere
Recorder

By Vivian Peterson
Deputy

KNOW ALL MEN BY THESE PRESENTS, That We the undersigned have located the Topaz No. 10 lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 600 feet on said vein running N 41° 34' E from the center of the discovery cut and 900 feet running S 41° 34' W from the center of the discovery cut, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Lower San Miguel Mining District, County of San Miguel, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, whence corner No. 4 of Eclipse (Mineral Survey No. 20582), bears N 41° 34' E, 600 feet; thence N 48° 26' W 540 feet to corner No. 2; thence N 41° 34' E 1500 feet to corner No. 3; thence S 48° 26' E 540 feet to corner No. 4; thence S 41° 34' W 1500 feet to corner No. 1 the place of beginning.

Corner No. 1 of Topaz No. 10 is identical with corner No. 3 of Topaz No. 9.

Said lode was discovered on the 19th day of January, A. D. 1953 and located on the 19th day of January, A. D. 1953.

Dated this 23rd day of March, A. D. 1953.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 14 1955

Simpson Mining Co.....	25%	
W. D. McDavid.....	30%	(SEAL)
Arthur Hamilton.....	9%	
Otis Phillips, Jr.....	9%	(SEAL)
John W. Harris.....	9%	
Rex Phillips.....	9%	(SEAL)
Kathleen P. Ladd, or Graham B. Ladd.....	9%	(SEAL)
J. E. Simpson		(SEAL)
SIMPSON MINING CO.		(SEAL)

Exhibit 4

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Carriere County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #11

No. 105482 as it appears of record in my office in Book 216 at page 426

Witness my hand and official seal at Telluride, Colo., this 1 day of Feb 1955

Issued to Geo Engineering

No. 1536 Fee 1.00

Charles C. Carriere
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

13 Out West Prtg. & Staty. Co., Colo. Spgs M4172

DEPARTMENT OF THE INTERIOR
Colorado Minerals Administration
RECEIVED
MAR 14 1955

NO. 105482

LOCATION CERTIFICATE

On the Topaz No. 11 Lode Mining Claim, in Lower San Miguel Mining District.

Simpson Mining Co.
Locator

STATE OF COLORADO)
County of San Miguel) ss.

I hereby certify that this Location Certificate was filed for record in my office at 4:11 o'clock P. M., April 17, 1953, and is duly recorded in Book 216 Page 426.

Charles C. Carriere
Recorder
By Vivian Peterson
Deputy

KNOW ALL MEN BY THESE PRESENTS, That We the undersigned have located the Topaz No. 11 lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 600 feet on said vein running N 41° 34' E from the center of the discovery cut and 900 feet running S 41° 34' W from the center of the discovery cut, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim situate in Lower San Miguel Mining District, County of San Miguel, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, whence corner No. 1 of Eclipse (Mineral Survey No. 20582), bears S 33° 43' E, 1173 feet; thence S 48° 26' E 600 feet to corner No. 2; thence S 41° 34' W 1500 feet to corner No. 3; thence N 48° 26' W 600 feet to corner No. 4, thence N 41° 34' E 1500 feet to corner No. 1, Corner No. 1 of Topaz No. 11 is identical with corner No. 1 of Topaz No. 15.

Said lode was discovered on the 19th day of January A. D. 1953 and located on the 19th day of January, A. D. 1953.

Dated this 23rd day of March, A. D. 1953.

Simpson Mining Co.	25%	
W. D. McDavid	30%	(SEAL)
Arthur Hamilton	9%	
Otis Phillips, Jr.	9%	(SEAL)
John W. Harris	9%	
Rex Phillips	9%	(SEAL)
Kathleen P. Ladd, or Graham B. Ladd	9%	(SEAL)
J. E. Simpson		(SEAL)
SIMPSON MINING CO.		(SEAL)

the place of beginning.

Exhibit 5

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Carriere County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #13

No. 105483 as it appears of record in my office in Book 216 at page 426

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

Charles C. Carriere
County Clerk and Recorder, San Miguel County, Colorado.

No. 1537 Fee 1.00

By _____ Deputy.

18 Out West Prtg. & Stat. Co., Colo. Spgs M4172

NO. 105483

LOCATION CERTIFICATE

On the Topaz No. 13 Lode Mining Claim, in Lower San Miguel Mining District.

Simpson Mining Co.
Locator

STATE OF COLORADO)
County of San Miguel) ss.

I hereby certify that this Location Certificate was filed for record in my office at 4:12 o'clock P. M., April 17, 1953, and is duly recorded in Book 216 Page 426.

Charles C. Carriere
Recorder

By Vivian Peterson
Deputy

KNOW ALL MEN BY THESE PRESENTS, That We the undersigned have located the Topaz No. 13 lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the veing thereof, with all its dips, angles and variations as allowed by law 50 feet on said vein running N 48°-26' W. from the center of the discovery cut and 1450feet running S48° 26' E from the center of the discovery cut, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of saidclaim, situate in Lower San Miguel Mining District, County of San Miguel, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner N. 1, which is identical with corner No. 1 of Uncle Sam Lode (Mineral Survey No. 20581); thence N 48° 26' W 1500 feet to corner No. 2; thence N 41° 34' E 600 feet to corner No. 3; thence S 48° 26' E 1500 feet to corner No. 4; thence S 41° 34' W 600 feet to corner No. 1, the place of beginning.

Corner No. 2 of Topaz No. 13 is identical with corner No. 1 of the Indian Henry (Mineral Survey No. 20581).

Said lode was discovered on the 19th day of January, A. D. 1953 and located on the 19th day of January, A. D. 1953.

Dated this 27th day of March, A. D. 1953.

Simpson Mining Co.	25%	
W. D. McDavid	30%	(SEAL)
Arthur Hamilton	9%	
Otis Phillips, Jr.	9%	(SEAL)
John W. Harris	9%	
Rex Phillips	9%	(SEAL)
Kathleen P. Ladd, or Graham B. Ladd	9%	(SEAL)
J. E. Simpson		(SEAL)
SIMPSON MINING CO.		(SEAL)

Exhibit 6

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 14 1955

(CERTIFIED COPY)

STATE OF COLORADO }
COUNTY OF SAN MIGUEL } ss.

I, Charles C. Carriere County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #22

No. 105690 as it appears of record in my office in Book 216 at page 430

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

No. 1538 Fee $1.00

Charles C. Carriere
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

18 Out West Prtg. & Stat. Co., Colo. Spgs M4172

NO. 105690

LOCATION CERTIFICATE

On the Topaz No. 22 Lode Mining Claim, in Lower San Miguel Mining District.

Simpson Mining Co.
Locator

STATE OF Colorado)
County of San Miguel) ss.

I hereby certify that this Location Certificate was filed for record in my office at 10:40 o'clock A. M., April 30 1953, and is duly recorded in Book 216 Page 430.

Charles C. Carriere
Recorder.

KNOW ALL MEN BY THESE PRESENTS, That We the undersigned have located the Topaz No. 22 lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 448 feet on said vein running N 41° 34' E from the center of discovery cut and 1052 feet running S 41° 34' W from the center of the discovery cut, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Lower San Miguel Mining District, County of San Miguel, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, whence corner No. 1 of Eclipse Lode (Mineral Survey No. 20582), bears N64° 27' E, 2931 feet; thence S48° 26' E 600 feet to corner No. 2; thence N41° 34' E 1500 feet to corner No. 3; thence N48° 26' W 600 feet to corner No. 4; thence S 41° 34' W 1500 feet to corner No. 1, the place of beginning.

Corner No. 1 of Topaz No. 22 is identical with corner No. 1 of Topaz No. 21

Said lode was discovered on the 12th day of February, A. D. 1953 and located on the 12th day of February, A. D. 1953.

Dated this 27th day of March, A. D. 1953.

Simpson Mining Co.	25%	
W. D. McDavid	30%	(SEAL)
Arthur Hamilton	9%	
Otis Phillips, Jr.	9%	(SEAL)
John W. Harris	9%	
Rex Phillips	9%	(SEAL)
Kathleen P. Ladd, or Graham B. Ladd	9%	(SEAL)
J. E. Simpson		(SEAL)
SIMPSON MINING CO.		(SEAL)

Exhibit 7

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 14 1953

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Carriere County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #23

No. 105691 as it appears of record in my office in Book 216 at page 431

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

No. 1539 Fee 1.00

Charles C. Carriere
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

18 Out West Prtg. & Stat. Co., Colo. Spgs M4172

NO. 105691

LOCATION CERTIFICATE

On the Topaz No. 23 Lode Mining Claim, in Lower San Miguel Mining District.

Simpson Mining Co.
Locator

STATE OF Colorado)
County of San Miguel) ss.

I hereby certify that this Location Certificate was filed for record in my office at 10:41 o'clock A. M., April 30 1953, and is duly recorded in Book 216 Page 431.

Charles C. Carriere
Recorder.

KNOW ALL MEN BY THESE PRESENTS, That We the undersigned have located the Topaz No. 23 lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 511 feet on said vein running N 41° 34' E from the center of the discovery cut and 989 feet running S 41° 34' W from the center of the discovery cut, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Lower San Miguel Mining District, County of San Miguel, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, whence corner No. 4 of Eclipse Lode (Mineral Survey No. 20582), bears N41° 34' E, 600 feet; thence N48° 26' W 540 feet to corner No. 2; thence S41° 34' W 1500 feet to corner No. 3; thence S48° 26' E 540 feet to corner No. 4; thence N41° 34' E 1500 feet to corner No. 1, the place of beginning.

Corner No. 1 of Topaz No. 23 is identical with corner No. 1 of Topaz No. 24 and 10 and Corner No. 3 of Topaz No. 9.

Said lode was discovered on the 12th day of February, A. D. 1953 and located on the 12th day of February, A. D. 1953.

Dated this 27th day of March, A. D. 1953.

Simpson Mining Co.....25%
W. D. McDavid.....30% (SEAL)
Arthur Hamilton.....9%
Otis Phillips, Jr.....9% (SEAL)
John W. Harris.....9%
Rex Phillips.....9% (SEAL)
Kathleen P. Ladd, or
Graham B. Ladd.....9% (SEAL)
J. E. Simpson (SEAL)
SIMPSON MINING CO. (SEAL)

Exhibit 8

DEPARTMENT OF THE INTERIOR
Leasing Minerals Administration
RECEIVED
MAR 1 4 1985

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Carriere County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #24

No. 105692 as it appears of record in my office in Book 216 at page 431

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

No. 1540 Fee 1.00

Charles C. Carriere
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

18 Out West Prtg. & Stnty. Co., Colo. Spgs M4172

NO. 105692

LOCATION CERTIFICATE

On the Topaz No. 24 Lode Mining Claim, in Lower San Miguel Mining District.

Simpson Mining Co.
Locator

STATE OF Colorado }
County of San Miguel } ss.

I hereby certify that this Location Certificate was filed for record in my office at 10:42 o'clock A. M., April 30 1953, and is duly recorded in Book 216 Page 431.

Charles C. Carriere
Recorder.

KNOW ALL MEN BY THESE PRESENTS, That We the undersigned have located the Topaz No. 24 lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 342 feet on said vein running N41° 34' E from the center of the discovery cut and 1158 feet running S 41° 34' W from the center of the discovery cut, together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Lower San Miguel Mining District, County of San Miguel, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, whence corner No. 4 of Eclipse Lode (Mineral Survey No. 20582), bears N41° 34' E, 600 feet; thence S48° 26' E 600 feet to corner No. 2; thence S41° 34' W 1500 feet to corner No. 3; thence N48° 26' W 600 feet to corner No. 4; thence N41° 34' E 1500 feet to corner No. 1, the place of beginning.

Corner No. 1 of Topaz No. 24 is identical with corner No. 1 of Topaz No. 10 & 23 and corner No. 3 of Topaz No. 9.

Said lode was discovered on the 11th day of February, A. D. 1953 and located on the 11th day of February, A. D. 1953.

Dated this 27th day of March, A. D. 1953.

Simpson Mining Co.....25%
W. D. McDavid.....30% (SEAL)
Arthur Hamilton.....9%
Otis Phillips, Jr.....9% (SEAL)
John W. Harris.....9%
Rex Phillips.....9% (SEAL)
Kathleen P. Ladd, or
Graham B. Ladd.....9% (SEAL)
J. E. Simpson (SEAL)
SIMPSON MINING CO. (SEAL)

Exhibit 9

DEPARTMENT OF THE INTERIOR
Bureau Mines Administration
DENVER
MAR 1 4 1935

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Carriere County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #25

No. 105693 as it appears of record in my office in Book 216 at page 432

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

No. 1541 Fee 1.00

Charles C. Carriere
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

18 Out West Prtg. & Stnty. Co., Colo. Spgs M4172

NO. 105693

LOCATION CERTIFICATE

On the Topaz No. 25 Lode Mining Claim, in Lower San Miguel Mining District.

Simpson Mining Co.
Locator

STATE OF Colorado)
County of San Miguel) ss.

I hereby certify that this Location Certificate was filed for record in my office at 10:43 o'clock A. M., April 30 1953, and is duly recorded in Book 216 Page 432.

Charles C. Carriere
Recorder

KNOW ALL MEN BY THESE PRESENTS, That We the undersigned have located the Topaz No. 25 lode mining claim, and by this certificate, and by right of discovery and location, claim 1500 feet, linear and horizontal measurement along the vein thereof, with all its dips, angles and variations as allowed by law 195 feet on said vein running N41° 34' E from the center of the discovery cut and 1305 feet running S41° 34' W from the center of the discovery cut together with 300 feet on each side of the middle of said vein at the surface, and all veins, lodes, ledges, deposits and surface ground within the lines of said claim, situate in Lower San Miguel Mining District, County of San Miguel, and State of Colorado and described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1, whence corner No. 2 of Eclipse Lode (Mineral Survey No. 20582), bears N55° 35' E1237 feet; thence N48° 26' W 600 feet to corner No. 2; thence S41° 34' W 1500 feet to corner No. 3; thence S48° 26' E 600 feet to corner No. 4; thence N41° 34' E 1500 feet to corner No. 1, the place of beginning.

Corner No. 1 of Topaz No. 25 is identical with corner No. 1 of Topaz No. 26.

Said lode was discovered on the 11th day of February, A. D. 1953 and located on the 11th day of February, A. D. 1953.

Dated this 27th day of March, A. D. 1953.

Simpson Mining Co.....	25%	
W. D. McDavid.....	30%	(SEAL)
Arthur Hamilton.....	9%	
Otis Phillips, Jr.....	9%	(SEAL)
John W. Harris.....	9%	
Rex Phillips,.....	9%	(SEAL)
Kathleen P. Ladd, or Graham B. Ladd.....	9%	(SEAL)
J. E. Simpson		(SEAL)
SIMPSON MINING CO..		(SEAL)

Exhibit 10

MAR 14 1956
RECEIVED
Library of the Museum
Dumbarton Oaks Research

(CERTIFIED COPY)

STATE OF COLORADO }
COUNTY OF SAN MIGUEL } ss.

I, Linda C. Cannone County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Jagger #1

No. 118375 as it appears record in my office in Book 240 at page 477

Witness my hand and official seal at Telluride, Colo., this 4th day of July 19[illegible]

Linda C. Cannone
County Clerk and Recorder, San Miguel County, Colorado.

Issued to Geo. [illegible]

No. 1556 Fee $1.00

By Deputy.

13 Out West Prtg. & Staty. Co., Colo. Spgs M4172

Filed for record the day of A. D. 19 at o'clock M.

No. RECORDER.

STATE OF COLORADO }
County of San Miguel } ss.

Know all Men by these Presents:

That We

the undersigned, have this 18th day of August, 1954, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and this amended location certificate 1500 linear feet and horizontal measurement on the Topaz No. 1 lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 300 feet on the North-East side, and 300 feet on the South-West side of the middle of said vein at the surface, so far as can be determined from present developments; and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 22 feet running S 48-26 E from center of discovery [illegible] and 1478 feet running N 48-26W from center of discovery cut said discovery cut being situate upon said lode, vein, ledge, or deposit, and within the lines of said claim in Lower San Miguel Mining District, County of San Miguel and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 Which is identical with corner no. 2 of Eclipse (Mineral Survey No. 20582):

thence N 16-13 W 637 feet to corner no. 2 which is identical with corner no. 3 of Indian Henry (Mineral Survey No. 20581);

thence N 48-26 W 1500 feet to corner no. 3 which is identical with corner no. 4 of Indian Henry;

thence S 16-13 E 637 feet to corner no. 4 which is identical with corner no. 1 of Eclipse;

thence S 48-26 E 1500 feet to corner no.1, the place of beginning.

This being the same lode originally located on the 19th day of January, 1953, and recorded on the 17th day of April, 1953, in Book 216, Page 421, in the office of the Recorder of San Miguel County, this further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location, description or record, or validity. This notice is posted and filed pursuant to the provisions of the Act of August 17, 1954--83D Congress, 2D Session, S. 3344--(Amending the Mineral Leasing Laws to Provide for Multiple Mineral Development of the same tracts of the Public Lands), and for the purpose of obtaining the benefits thereof. PUBLIC LAW 585

Said lode was discovered the 19th day of January, A. D. 1953

ATTEST: Alan N. Simpson
Posting Notice of
Date of/Amended/Location,
Aug. 27, A. D. 1954

Date of Amended Certificate,
, A. D. 19

Simpson Mining Co. [illegible] Seal
W. E. LeDavid [illegible] Seal
Arthur Hamilton [illegible] Seal
Otis Phillips, Jr. [illegible]
John W. Harris [illegible] Seal
Rex Phillips [illegible]
Graham B. Ladd [illegible] Seal
Simpson Mining Co. Seal
By: J. E. Simpson Seal

828-P. AMENDED LOCATION CERTIFICATE—Out West Printing and Stationery Co., Colorado Springs, Colo.

Exhibit 11

MAR 1 4 1955
RECEIVED
CONSERVATION DIVISION
COMMISSIONER OF THE INTERIOR

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Canning County Clerk and R
in and for said County and State, do hereby certify that the within and foregoing is a full, true and
copy of Topaz #10

No. 118404 as it appears 07
in Book 240 at page 508 record in my

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb
Issued to Geo Engineering Charles C. Canning
No. 1558 Fee 1.00 County Clerk and Recorder, San Miguel County, Colo

18 Out West Prtg. & Stnry. Co., Colo. Spgs M4172 By De

Filed for record the day of A. D. at o'clock M.
No.
RECORDER.

STATE OF COLORADO
County of San Miguel } ss.

Know all Men by these Presents:

That We

the undersigned, have this 19th day of August, 1954, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and this amended location certificate 1500 linear feet and horizontal measurement on the Topaz No. 10 lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 300 feet on the North-West side, and 300 feet on the South-East side of the middle of said vein at the surface, so far as can be determined from present developments; and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 1415 feet running N 41-34 E from center of discovery cut and 85 feet running S 41-34 W from center of discovery cut said discovery cut being situate upon said lode, vein, ledge, or deposit, and within the lines of said claim in Lower San Miguel Mining District, County of San Miguel and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 whence corner no. 4 of Eclipse (Mineral Survey No. 20582), bears N 41-34 E 600 feet.
thence N 48-26 W 540 feet to corner no. 2;
thence N 41-34 E 1500 feet to corner no. 3;
thence S 48-26 E 540 feet to corner no. 4;
thence S 41-34 W 1500 feet to corner no. 1, the place of beginning.

Corner no. 1 of Topaz No. 10 is identical with corner no. 3 of Topaz No. 9.

This being the same lode originally located on the 19th day of January, 1953, and recorded on the 17th day of April, 1953, in Book 216, Page 425, in the office of the Recorder of San Miguel County, this further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location, description or record, or validity. This notice is posted and filed pursuant to the provisions of the Act of August 13, 1954--83D Congress, 2D Session, S. 3344--(Amending the Mineral Leasing Laws to Provide for Multiple Mineral Development of the same tracts of the Public Lands), and for the purpose of obtaining the benefits thereof. PUBLIC LAW 585.

Said lode was discovered the 19th day of Janhary, A. D. 1953.

ATTEST: Alan M. Simpson
Posting Notice of
Date of Amended Location,
Aug. 27, A. D. 19 54

Date of Amended Certificate,
, A. D. 19

Simpson Mining Company ...25% Seal
W. D. McDavid 30%
Arthur Hamilton .....9% Seal
Otis Phillips, Jr 9%
John W. Harris .....9% Seal
Rex Phillips 9%
Graham B. Ladd .....9% Seal

Simpson Mining Company Seal
By: J. E. Simpson Seal

639-P. AMENDED LOCATION CERTIFICATE—Out West Printing and Stationery Co., Colorado Springs, Colo.

Exhibit 12

MAR 1 4 1955
RECEIVED
CONTRACTS ADMINISTRATION
Contract Section of the Procurement
Division, Wright Air Development Center

(CERTIFIED COPY)

STATE OF COLORADO }
COUNTY OF SAN MIGUEL } ss.

I, Charles C. Cannine County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #11

No. 118405 as it appears of record in my office in Book 240 at page 509

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

No. 1559 Fee 50

Charles C. Cannine
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

13 Out West Prtg. & Stat'y. Co., Colo. Spgs M4172

Filed for record the ____ day of ____, A. D. 19____, at ____ o'clock ____ M.

No. ____ RECORDER.

STATE OF COLORADO }
County of San Miguel } ss.

Know all Men by these Presents:

That We

the undersigned, have this 19th day of August, 1954, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and this amended location certificate 1500 linear feet and horizontal measurement on the Topaz No. 11 lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 300 feet on the North-West side, and 300 feet on the South-East side of the middle of said vein at the surface, so far as can be determined from present developments; and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 1450 feet running N 41-34 E from center of discovery cut and 50 feet running S 41-34 W from center of discovery cut said discovery cut being situate upon said lode, vein, ledge, or deposit, and within the lines of said claim in Lower San Miguel Mining District, County of San Miguel and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 whence corner no. 1 of Eclipse (Mineral Survey No. 20588), bears S 33-43 E 1172 feet;
thence S 43-26 E 600 feet to corner no. 2;
thence S 41-34 W 1500 feet to corner no. 3;
thence N 43-26 W 600 feet to corner no. 4;
thence N 41-34 E 1500 feet to corner no. 1, the place of beginning.

Corner no. 1 of Topaz No. 11 is identical with corner no. 1 of Topaz No. 10.

This being the same lode originally located on the 19th day of January, 1953, and recorded on the 17th day of April, 1953, in Book 216, Page 426, in the office of the Recorder of San Miguel County, this further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location, description or record, or validity. This notice is posted and filed pursuant to the provisions of the Act of August 13, 1954-- 83 Congress, 2D Session, S. 3344--(Amending the Mineral Leasing Laws to Provide for Multiple Mineral Development of the same tracts of the Public Lands), and for the purpose of obtaining the benefits thereof. PUBLIC LAW 585.

Said lode was discovered the 19th day of January, A. D. 1953

ATTEST: Alan M. Simpson
Posting Notice of
Date of Amended Location, Aug. 27, A. D. 1954

Date of Amended Certificate, _____, A. D. 19____

Simpson Mining Company..25% Seal
W. D. McDavid.....30%
Arthur Hamilton.....9% Seal
Otis Phillips, Jr.....9%
John W. Harris.....9% Seal
Rex Phillips.....9%
Graham B. Ladd.....9% Seal

Simpson Mining Company Seal

By: J. E. Simpson Seal

528-P. AMENDED LOCATION CERTIFICATE—Out West Printing and Stationery Co., Colorado Springs, Colo.

Exhibit 13

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
MAR 14 1935

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Cannino County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #13

No. 118406 as it appears of record in my office in Book 240 at page 510

Witness my hand and official seal at Telluride, Colo., this 18 day of Feb 1955

Issued to Geo Engineering

No. 1557 Fee $1.00

Charles C. Cannino
County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

13 Out West Prtg. & Stnty. Co., Colo. Spgs M4172

Filed for record the ____ day of ____, A. D. 19__, at ____ o'clock ____ M.

No. _____ RECORDER.

STATE OF COLORADO
County of San Miguel } ss.

Know all Men by these Presents:

That We

the undersigned, ha va this 19th day of August, 1954, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and this amended location certificate 1500 linear feet and horizontal measurement on the Topaz No. 13 lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 300 feet on the North-East side, and 300 feet on the South-West side of the middle of said vein at the surface, so far as can be determined from present developments; and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 1255 feet running N 48-26 W from center of discovery cut and 245 feet running S 48-26 E from center of discovery cut said discovery cut being situate upon said lode, vein, ledge, or deposit, and within the lines of said claim in Lower San Miguel Mining District, County of San Miguel and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 which is identical with corner no. 1 of Uncle Sam Lode (Mineral Survey No. 20581);

thence N 48-26 W 1500 feet to corner no. 2;
thence N 41-34 E 600 feet to corner no. 3;
thence S 48-26 E 1500 feet to corner no. 4;
thence S 41-34 W 600 feet to corner no. 1,

the place of beginning.

Corner no. 2 of Topaz No. 13 is identical with corner no. 1 of the Indian Henry (Mineral Survey No. 20581)

This being the same lode originally located on the 19th day of January, 1953, and recorded on the 17th day of April, 1953, in Book 216, Page 426, in the office of the Recorder of San Miguel County, this further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location, description or record, or validity. This notice is posted and filed pursuant to the provisions of the Act of August 13, 1954--83D Congress, 2D Session, S. 3344--(Amending the Mineral Leasing Laws to Provide for Multiple Mineral Development of the same tracts of the Public Lands), and for the purpose of obtaining the benefits thereof. PUBLIC LAW 585.

Said lode was discovered the 19th day of January, A. D. 1953.

ATTEST: Alan N. Simpson
Posting Notice of
Date of Amended Location, Aug. 26, A. D. 1954

Date of Amended Certificate, _____, A. D. 19__

Simpson Mining Company.....25% Seal
W. D. McDavid.....30%
Arthur Hamilton.....9% Seal
Otis Phillips, Jr.....9%
John W. Harris.....9% Seal
Rex Phillips.....9%
Graham B. Ladd.....9% Seal

Simpson Mining Company Seal

By: J. E. Simpson Seal

828-P. AMENDED LOCATION CERTIFICATE—Out West Printing and Stationery Co., Colorado Springs, Colo.

Exhibit 14

MAR 1 4 1935
RECEIVED
Department of the Interior
Bureau of Mines
Washington, D. C.

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Cavanaugh County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #22

No. 118414 as it appears of record in my office in Book 240 at page 518

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Geo Engineering

Charles C. Cavanaugh
County Clerk and Recorder, San Miguel County, Colorado.

No. 1560 Fee 50

By ..... Deputy.

18 Out West Prtg. & Stnty. Co., Colo. Spgs M4172

Filed for record the ..... day of ..... A. D. 19..... at ..... o'clock ..... M.

No. ..... RECORDER.

STATE OF COLORADO
County of San Miguel } ss.

Know all Men by these Presents:

That We

the undersigned, have this 19th day of August, 19 54, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and this amended location certificate 1500 linear feet and horizontal measurement on the Topaz No. 22 lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 300 feet on the North-West side, and 300 feet on the South-East side of the middle of said vein at the surface, so far as can be determined from present developments; and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 448 feet running N 41-34 E from center of discovery cut and 1052 feet running S 41-34 W from center of discovery cut said discovery cut being situate upon said lode, vein, ledge, or deposit, and within the lines of said claim in Lower San Miguel Mining District, County of San Miguel and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 whence corner No. 1 of Eclipse Lode (Mineral Survey No. 20582), bears N 64-27 E 2931 feet;
thence S 48-26 E 600 feet to corner no. 2;
thence N 41-34 E 1500 feet to corner no. 3;
thence N 48-26 W 600 feet to corner no. 4;
thence S 41-34 W 1500 feet to corner no. 1, the place of beginning.

Corner no. 1 of Topaz No. 22 is identical with corner no. 1 of Topaz No. 21

This being the same lode originally located on the 12th day of February, 1953, and recorded on the 30th day of April, 1953, in Book 216, Page 430, in the office of the Recorder of San Miguel County, this further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location, description or record, or validity. This notice is posted and filed pursuant to the provisions of the Act of August 13, 1954--83D Congress, 2D Session, S. 3344--(Amending the Mineral Leasing Laws to Provide for Multiple Mineral Development of the same tracts of the Public Lands), and for the purpose of obtaining the benefits thereof. PUBLIC LAW 585.

Said lode was discovered the 12th day of February, A. D. 1953

ATTEST: Alan M. Simpson

Date of Posting Notice of Amended Location, Aug. 26, A. D. 19 54

Date of Amended Certificate, ..., A. D. 19....

Simpson Mining Company..25% Seal
W. D. McDavid.....30%
Arthur Hamilton.....9% Seal
Otis Phillips, Jr.....9%
John W. Harris.....9% Seal
Rex Phillips.....9%
Graham B. Ladd.....9% Seal

Simpson Mining Company Seal

By: J. E. Simpson Seal

828-P. AMENDED LOCATION CERTIFICATE—Out West Printing and Stationery Co., Colorado Springs, Colo.

Exhibit 15

MAY 14 1956

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Cornish County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #23

No. 118415 as it appears of record in my office in Book 240 at page 519

Witness my hand and official seal at Telluride, Colo., this 10 day of Oct 1954

Issued to Geo Engineering

Charles C. Cornish
County Clerk and Recorder, San Miguel County, Colorado.

No. 1561 Fee 1.00

By _____ Deputy.

Out West Prtg. & Stat. Co., Colo. Spgs. M4172

Filed for record the _____ day of _____, A. D. 19____, at _____ o'clock ____ M.

No. _____ _____ RECORDER.

STATE OF COLORADO
County of San Miguel } ss.

Know all Men by these Presents:

That We

the undersigned, have this 19th day of August, 1954, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and this amended location certificate 1500 linear feet and horizontal measurement on the Topaz No. 23 lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 300 feet on the North-West side, and 300 feet on the South-East side of the middle of said vein at the surface, so far as can be determined from present developments; and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 511 feet running N 41-34 E from center of discovery cut and 989 feet running S 41-34 W from center of discovery cut said discovery cut being situate upon said lode, vein, ledge, or deposit, and within the lines of said claim in Lower San Miguel Mining District, County of San Miguel and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 whence corner no. 4 of Eclipse Lode (Mineral Survey No. 20582), bears N 41-34 E 600 feet;
Thence N 48-26 W 540 feet to corner no. 2;
thence S 41-34 W 1500 feet to corner no. 3;
thence S 48-26 E 540 feet to corner no. 4;
thence N 41-34 E 1500 feet to corner no. 1, the place of beginning.

Corner no. 1 of Topaz No. 23 is identical with corner no. 1 of Topaz No. 24 and Topaz No. 10, and corner no. 3 of Topaz No. 9.

This being the same lode originally located on the 12th day of February, 1953, and recorded on the 30th day of April, 1953, in Book 216, Page 431, in the office of the Recorder of San Miguel County, this further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location, description or record, or validity. This notice is posted and filed pursuant to the provisions of the Act of August 13, 1954--83D Congress, 2D Session, S. 3344--(Amending the Mineral Leasing Laws to Provide for Multiple Mineral Development of the same tracts of the Public Lands), and for the purpose of obtaining the benefits thereof. PUBLIC LAW 585

Said lode was discovered the 12th day of February, A. D. 1953

ATTEST: Alan M. Simpson

Date of Posting Notice of Amended Location, Aug. 26, A. D. 1954

Date of Amended Certificate, _____, A. D. 19____

Simpson Mining Company..25% Seal
W. D. McDavid.....30%
Arthur Hamilton.....9% Seal
Otis Phillips, Jr.....9%
John W. Harris.....9% Seal
Rex Phillips.....9%
Graham B. Ladd.....9% Seal

Simpson Mining Company Seal

By: J. E. Simpson Seal

828-P. AMENDED LOCATION CERTIFICATE—Out West Printing and Stationery Co., Colorado Springs, Colo.

Exhibit 16

DEPARTMENT OF THE INTERIOR
LIBRARY
RECEIVED
MAR 31 1955

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Cannipe County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #24

No. 118416 as it appears of record in my office in Book 240 at page 520

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 19 55

Issued to Geo Engineering

No. 1562 Fee 5.00

County Clerk and Recorder, San Miguel County, Colorado.

By _____ Deputy.

13 Out West Prtg. & Stnry. Co., Colo. Spgs M4172

Filed for record the _____ day of _____ A. D. 19____ at _____ o'clock ____ M.

No. _____ RECORDER.

STATE OF COLORADO }
County of San Miguel } ss.

Know all Men by these Presents:

That We

the undersigned, have this 19th day of August, 1954, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and this amended location certificate 1500 linear feet and horizontal measurement on the Topaz No. 24 lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 300 feet on the North-West side, and 300 feet on the South-East side of the middle of said vein at the surface, so far as can be determined from present developments; and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 342 feet running N 41-34 E from center of discovery cut, and 1158 feet running S 41-34 W from center of discovery cut said discovery cut being situate upon said lode, vein, ledge, or deposit, and within the lines of said claim in Lower San Miguel Mining District, County of San Miguel and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 whence corner no. 4 of Eclipse Lode (Mineral Survey No. 20582), bears N 41-34 E 600 feet;
thence S 48-26 E 600 feet to corner no. 2;
thence S 41-34 W 1500 feet to corner no. 3;
thence N 48-26 W 600 feet to corner no. 4;
thence N 41-34 E 1500 feet to corner no. 1, the place of beginning.

Corner no. 1 of Topaz No. 24 is identical with corner no. 1 of Topaz no. 10 and Topaz No. 23, and corner no. 3 of Topaz No. 9.

This being the same lode originally located on the 11th day of February, 1953, and recorded on the 30th day of April, 1953, in Book 216, Page 431, in the office of the Recorder of San Miguel County, this further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location, description or record, or validity. This notice is posted and filed pursuant to the provisions of the Act of August 13, 1954--83D Congress, 2D Session, S. 3344--(Amending the Mineral Leasing Laws to Provide for Multiple Mineral Development of the same tracts of the Public Lands), and for the purpose of obtaining the benefits thereof. PUBLIC LAW 585

Said lode was discovered the 11th day of February, A. D. 1953

ATTEST: Alan M. Simpson

Date of Posting Notice of Amended Location, Aug. 26, A. D. 1954

Date of Amended Certificate, _____, A. D. 1954

Simpson Mining Company..25% Seal
W. D. McDavid.....30%
Arthur Hamilton.....9% Seal
Otis Phillips, Jr.....9%
John W. Harris.....9% Seal
Rex Phillips.....9%
Graham B. Ladd.....9%
Seal

Simpson Mining Company
Seal

By: J. E. Simpson
Seal

828-P. AMENDED LOCATION CERTIFICATE—Out West Printing and Stationery Co., Colorado Springs, Colo.

Exhibit 17

MAR 14 1962
RECEIVED
Public Records Administration
DEPARTMENT OF THE INTERIOR

(CERTIFIED COPY)

STATE OF COLORADO } ss.
COUNTY OF SAN MIGUEL

I, Charles C. Cannone County Clerk and Recorder in and for said County and State, do hereby certify that the within and foregoing is a full, true and correct copy of Topaz #25

No. 115417 as it appears on record in my office in Book 240 at page 521

Witness my hand and official seal at Telluride, Colo., this 10 day of Feb 1955

Issued to Lee Engineering

Charles C. Cannone
County Clerk and Recorder, San Miguel County, Colorado.

No. 1563 Fee $10

By ..... Deputy.

13 Out West Prtg. & Stnty. Co., Colo. Spgs M4172

Filed for record the ..... day of ....., A. D. 19....., at ..... o'clock ..... M.

No. ..... RECORDER.

STATE OF COLORADO
County of San Miguel } ss.

Know all Men by these Presents:

That We

the undersigned, have this 19th day of August, 1954, amended, located and claimed, and by these presents do amend, locate and claim, by right of discovery and this amended location certificate 1500 linear feet and horizontal measurement on the Topaz No. 25 lode, vein, ledge or deposit, along the vein thereof, with all its dips, angles and variations, as allowed by law, together with 300 feet on the North-West side, and 300 feet on the South-East side of the middle of said vein at the surface, so far as can be determined from present developments; and all veins, lodes, ledges or deposits and surface ground within the lines of said claim, 195 feet running N 41-34 E from center of discovery cut and 1305 feet running S 41-34 W from center of discovery cut said discovery cut being situate upon said lode, vein, ledge, or deposit, and within the lines of said claim in Lower San Miguel Mining District, County of San Miguel and State of Colorado, described by metes and bounds as follows, to-wit:

Beginning at Corner No. 1 whence corner no. 2 of Eclipse Lode (Mineral Survey No. 20582), bears N 55-35 E 1237 feet;
thence N 48-26 W 600 feet to corner no. 2;
thence S 41-34 W 1500 feet to corner no. 3;
thence S 48-26 E 600 feet to corner no. 4;
thence N 41-34 E 1500 feet to corner no. 1,
the place of beginning.

Corner no. 1 of Topaz No. 25 is identical with corner no. 1 of Topaz No. 26.

This being the same lode originally located on the 11th day of February, 1953, and recorded on the 30th day of April, 1953, in Book 216, Page 432, in the office of the Recorder of San Miguel County, this further and amended certificate of location is made without waiver of any previously acquired rights, but for the purpose of correcting any errors in the original location, description or record., or validity. This notice is posted and filed pursuant to the provisions of the Act of August 13, 1954--83D Congress, 2D Session, S. 3344--(Amending the Mineral Leasing Laws to Provide for Multiple Mineral Development of the same tracts of the Public Lands), and for the purpose of obtaining the benefits thereof. PUBLIC LAW 585.

Said lode was discovered the 11th day of February, A. D. 1953

ATTEST: Alan M. Simpson

Posting Notice of Date of/Amended/Location, Aug. 26, A. D. 1954

Date of Amended Certificate, ..., A. D. 1954

Simpson Mining Company..25% Seal
W. D. McDavid.....30%
Arthur Hamilton.....9% Seal
Otis Phillips, Jr.....9%
John W. Harris.....9% Seal
Rex Phillips.....9%
Graham B. Ladd.....9% Seal

Simpson Mining Company Seal

By: J. E. Simpson Seal

828-P. AMENDED LOCATION CERTIFICATE—Out West Printing and Stationery Co., Colorado Springs, Colo.

Exhibit 18

LIBRARY OF THE UNIVERSITY
OF CALIFORNIA
MAR 1 4 1955

DRILL HOLE LOG

GEO ENGINEERING

Type of Drill: Core

Logged For: Urado Uranium

Drill-hole No.: T1-1
Total depth: 80'
Collar elev.: 6100' T ..... P
Area: Big Gyp Valley

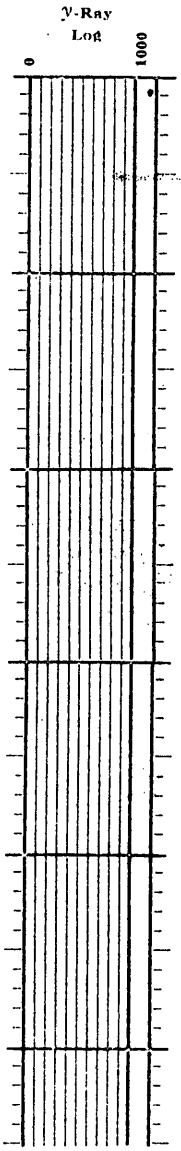
COORDINATES
North ..... East .....
Tie: S 46° E 190' from NESC Topaz 1

Claim: Topaz 1
Date started: 12/21/54
Date completed: 12/23/54
Logged by: Geo-Engineering

Summary of log ..... ; OBSS ..... Thick ..... ; SS color ..... ; MS (under OBSS) ..... ; Cbn .....

DEPTH From	DEPTH To	Rock	Color	Grain	Carbon	REMARKS
0	65					Boulders, Sand & Gravel
65	65.4	SS				
65.4	66	MS	Gn			Soft
66	66.8	MS	Gn			Sandy
66.8	70	MS	R			Sandy
70	74	MS	R			
74	80	SS				
						Hole was not drilled deep enough
						Hole caved at 7 feet
						7.5 feet core - no count
	2'	SS	L Br			
	4'	SS	L Br-Gn			
	1.5'	MS	R			

γ-Ray Log



SAMPLE BASE	SAMPLE THICK	LAB ASSAY (%) U_3O_8	LAB ASSAY (%) V_2O_5	FIELD EST. (%) U_3O_8	FIELD EST. (%) V_2O_5

Abbreviations

Wh—white	CG—conglomerate
Br—brown	SS—sandstone
R—red	MS—mudstone
Gy—gray	ST—siltstone
Bl—blue	F—fine
Gn—green	M—medium
Yw—yellow	C—coarse
Bk—black	N—none
Pp—purple	S—sparse
Cbn—carbon	A—abundant
OBSS—ore bearing sandstone	

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Exhibit 19

Hole No. T1-1

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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 14 1955

DRILL HOLE LOG

GEO ENGINEERING

Type of Drill: Core

Logged For: Uradò Uranium

Drill-hole No. T1-2
Total depth 135
Collar elev. 6200 T P
Area Big Gyp Valley

COORDINATES
North East
Tie S 37° E 440'
from NESC - Topaz 1

Claim Topaz #1
Date started 12/14/54
Date completed 12/21/54
Logged by Mott Drilling

Summary of log Semifavorable ; OBSS Thick 14.4; SS color L Br ; MS under OBSS Gn Br ; Cbn

DEPTH From	DEPTH To	Rock	Color	Grain	Carbon	REMARKS
0	69.8					Boulders, Sand, Gravel
69.8	72.8	SS	R Br			Gr Kidneys, V.F.
72.8	75.0	MS	R			Gr particles of MS
75.0	76.8	SS	L Br			Quartzite
76.8	80.0	MS	R Bl Gn			
80.0	81.0	SS	Gn			Quartzite
81.0	86.0	MS	R			
86.0	88.0	SS	L Gn			Quartzite
88.0	93.0	MS	R			
93.0	94.6	SS	Gn			Quartzite
94.6	95.0	MS	R Ye			
95.0	96.6	SS	L Gn			
96.6	100	MS	R			
100	104.6	SS	L Gn			Quartzite
104.6	105.6	MS	R			
105.6	107.4	SS	Wh			Quartzite
107.4	115.6	MS	R Gn			
115.6	116.6	MS	Gn			Sandy
116.6	131.0	SS	L Br			Hem. Stains Med. Grain last foot had green and brown streaks MS
131.0	135.0	MS	R			
		Hole caved at 54' core showed no count				

γ-Ray Log 0 1000

SAMPLE BASE	SAMPLE THICK	LAB ASSAY (%) U_3O_8	LAB ASSAY (%) V_2O_5	FIELD EST. (%) U_3O_8	FIELD EST. (%) V_2O_5

Abbreviations

Wh—white	CG—conglomerate
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Bk—black	N—none
Pp—purple	S—sparse
Cbn—carbon	A—abundant
OBSS—ore bearing sandstone	

Exhibit 20

Hole No. T1-2

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