1/28/55 gla

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

COPY

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV - III

Subject: Report of Examination, DMEA Docket 3496, (Uranium, Columbium, Tantalum, Nickel, Thorium), Lobo Negro Mining and Exploration Co., Washington County, Utah

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

/s/ W. H. KING
W. H. King

E. N. HARSHMAN
E. N. Harshman

HMC:pw

Reviewed by
DMEA OPERATING COMMITTEE
1-26-55
(date)

C O P Y

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Mr. Clarence Smolka, Secretary
Lobo Negro Mining and Exploration Co.
2268 South 21st East
Salt Lake City, Utah

Re: Docket No. DMEA 3496

Dear Mr. Smolka:

Reference is made to your application for Government aid on the Caliente group.

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

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves of Uranium, Columbium, Tantalum, Cobalt, Thorium, Nickel and Rare Earths is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

W. H. KING
W. H. King
Field Team, Region IV

E. N. HARSHMAN
E. N. Harshman
Field Team, Region

HMC:pw

cc:
Subject
Chron
Administrator
Wilson
Osterstock
Harshman
Mining Div.
AEC

Reviewed by
DMEA OPERATING COMMITTEE
1-26-55
(date)

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

Transmitted
JAN 13 1955

December 10, 1954

Memorandum

To: V. H. King, Executive Officer, DMEA Field Team, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMEA-3484 (Uranium, cobalt, columbium, tantalum, nickel, thorium and rare earths) Lake Mojave Mining and Exploration Co., Washington County, Utah

Enclosed are the original and 18 copies of an engineering report covering examination of the subject property for DMEA loan approval. Also included is a separate section of Summary, Conclusions and Recommendations, three copies each of Forms 9-893 and 9-204, and a copy of the brochure. The report was prepared after examination of the property by V. A. Young with S. V. Saterebak of the Survey.

Known mineralization on the property occurs at the base of the Shinarump formation and in one members member of the Chinle formation. The examination disclosed the presence of very weak mineralization. No evidence is present that mineralization of higher grade will be found by exploration beyond the outcrops. The examining engineer recommends that the loan request be denied. I concur with this recommendation.

The application was brought to the attention of the Atomic Energy Commission. Mineralization in the area was discussed with personnel of this agency.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
1-26-55
(date)

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

IN REPLY REFER TO:
Defense Minerals Administration
RECEIVED
JAN 24 1955

Transmitted
JAN 13 1955

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
December 10, 1954

Memorandum

To: E. N. Harshman E.N.H. for AHK

From: R. W. Osterstock

Subject: DMEA Docket 3496 (Uranium, et. al.) Lobo Negro Mining and Exploration Co., Caliente Group, Washington County, Utah.

Prior to visiting the Caliente group of claims in Washington County, Utah, I contacted R.J.Meehan (Salt Lake City Branch, AEC) who had examined the property during February 1954. Mr. Meehan provided me with a copy of his reconnaissance report (File No. RR-150). The conclusions drawn by Meehan were that the property did not warrant further attention at the time his report was written. E. E. Thurlow, Chief of the Salt Lake City Exploration Branch of the AEC, states that to the best of his knowledge the AEC has no other information on the property.

Upon returning from my own field investigation of the property I again contacted Meehan and discussed the applicant's DMEA loan request. We concluded that the property was not worthy of DMEA assistance at this time as there was very little chance of encountering material of sufficient size or grade as to add to the nations resources.

/s/ R. W. Osterstock

1-26-55

IN REPLY REFER TO:
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 24 1955

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

Transmitted

JAN 13 1955

December 7, 1954

Memorandum

To: DMEA Field Team, Region IV

From: A. M. Koschmann

Subject: DMEA Docket 3496 Uranium, et al.), Lobo Negro Mining and Exploration Company, Caliente Group, Washington County, Utah

Enclosed are 11 copies of a geologic report by R. K. Osterstock of the U. S. Geological Survey covering the above docket.

The applicant proposes to explore for uranium, cobalt, columbium, tantalum, thorium, nickel, and rare earth ores on the Caliente claim group by 400 feet of drifting, 1850 feet of diamond drilling, and to construct 8,300 feet of access road. His estimated cost of the project is $20,000.

The property, located 8 miles south of the south boundary of Zion National Park, is in an area underlain by Triassic sedimentary rocks. Very minor amounts of copper, uranium, columbium, and tantalum are found associated with carbonized and silicified plant remains in the Petrified Forest member of the Chinle formation. Limited exploration by the applicant has indicated the poorly mineralized zone to be about 4 feet thick and to have a lateral extent, along the outcrop, of not over 150 feet.

Osterstock concludes that the exploration program requested by the applicant will not lead to the discovery of significant amounts of ore grade material. He recommends denial of the application for exploration assistance.

Although the report indicates close cooperation with the A.E.C., a positive statement to the effect that all A.E.C. data have been used in evaluating the property has been requested. When received, this statement will be forwarded to you.

E. M. Hackman
for A. M. Koschmann
Supervising Geologist
Colorado-Wyoming

1-26-55

Enclosures (11)

Transmitted

JAN 13 1955

Room 202 - 222 So. West Temple
Salt Lake City 1, Utah
December 3, 1954

Memorandum

To: A. H. [illegible], Field Area Engineer R

From: R. W. Lutzenstock

Subject: DMEA Number 1496 (Drenkow, et al.) Lake Mayne Mining and Exploration Company, Colinsta Group, Washington County, Utah.

Enclosed are 11 copies of a geologic report on the Colinsta group of claims. The operators have applied for a DMEA loan to explore for Uranium, Cobalt, Columbium, Tantalum, Thorium, Nickel, and Rare Earths on the Colinsta group in Washington County, Utah. A field examination was conducted September 29, by R. W. Lutzenstock (DMEA) and W. S. Young (USGS). The examiners were accompanied in the field by S. G. Worley and Clarence Anshe, officers of the company.

The Colinsta group is located about 8 miles south of the south end of Zion National Park in an area of Triassic sediments. Very minor mineralization has been found in a thin zone in the Upper Triassic Chinle formation. No ore grade material has yet been found and the property has no ore reserves.

The applicant has proposed the expenditure of $20,000 in drifting, diamond drilling and road building. There is little likelihood that such a program with so well defined targets would encounter ore grade material in sufficient quantity to materially add to the nation's reserves. It is, therefore, recommended that this application for government assistance be denied.

R. W. Lutzenstock

RWL/rs

1-26-55

[illegible] of the [illegible]
Defense Minerals Administration
RECEIVED
[illegible] 24 [illegible]

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. V. Ostrowski and V. E. Young

Property of Lake Hogre Mining and Exploration Company in Washington County, Utah, was examined by DMEA personnel during September 1954 to appraise a request for Government assistance in exploration. The applicant has requested aid in exploring 57 lode claims for uranium, cobalt, columbium, tantalum, thorium, nickel and rare earths.

Project proposals submitted by the applicant consist of 2,200 feet of access road construction, 1,600 feet of RC drilling in 20 locations, and 600 feet of hand underground work. Total cost of the exploration is estimated to be $20,000.

Some mineralization in the area occurs at the base of the Triassic Shinarump formation and in the Petrified Forest sandstone member of the Chinle formation. Exploratory work to date has disclosed no mineralization of significance and no evidence is present that higher-grade mineralization will be found beyond the coverage by the proposed exploration. It is therefore recommended that the loan request be denied.

Reviewed by
DMEA OPERATING COMMITTEE
1-26-55

INTRODUCTION

The Lobo Negro Mining and Exploration Company, owners by location of the Caliente group of 27 lode claims, has applied for a DMEA loan to explore for Uranium, Cobalt, Columbium, Tantalum, Thorium, Nickel, and Rare Earth ores. Examination of the property was made September 29, 1954 by R. W. Gotzenbach (DMEA) and V. L. Young (USGS). J. G. Dooley, the president, and Clarence Austin, the secretary of the Lobo Negro Mining and Exploration Company accompanied the examiners in the field.

Location and accessibility

The Caliente group of claims is located in Sections 24 and 25, T. 42 S., R. 11 W., SLB&M and in Sections 30 and 31 (unsurveyed), T. 42 S., R. 10 W., SLB&M (see fig. 1). The claims may be reached by driving 1.4 miles south from State Highway 15 in Leeds, Washington County, Utah on an unimproved dirt road to the Beaver Valley Wash Ford, 1.7 miles beyond the Ford turn left on primitive dirt road, continue 2.9 miles to wash crossing on Pinon claim.

History and production

There has been no production from the 27 claims comprising the Caliente group. The applicant has accomplished a small amount of diamond drilling and some trenching prior to the DMEA field team examination.

R. J. Weston and Don Roland, geologists for the Atomic Energy Commission, made a reconnaissance visit to the property February 16, 1954. They reported that the property did not warrant further attention at that time.

GEOLOGY

The Caliente group of claims lies in an area of eroded plateau type topography near the northern end of the Vermillion Cliffs.

The rocks exposed in the area are shale, sandstone, mudstone, and siltstone of Triassic and Jurassic age. The oldest rock exposed on the Caliente group of claims is the Lower Triassic Moenkopi formation; this consists to dark red colored, thin bedded, shaly siltstone and sandstone outcrops only in the bottom of some of the more deeply eroded washes. Unconformably overlying the Moenkopi formation is the Upper (?) Triassic Shinarump formation. There are many unconsolidated logs with a north-south trend at the Moenkopi-Shinarump contact. The Shinarump is composed mainly of shaly sandstone, sandstone, grit and thin pebble beds; it varies from grey to reddish brown in color. The best sections of the Shinarump are exposed in the walls of the washes and gullies in the area; its greater resistance to erosion makes the Shinarump a bench former so that most of the basin floor in the area is essentially the top of the Shinarump.

Conformably overlying the Shinarump is the Upper Triassic Chinle formation which is composed of sandstone, mudstone, sandy shale, and shale. This formation displays a wide range of color from red through yellow, white, purple, grey, buff and brown. The Chinle has been subdivided into the Lower sandstone, Petrified Forest member, Springdale sandstone member and the Upper sandstone.

ORE DEPOSITS

All of the known mineralization is confined to the Chinle Formation, specifically to the petrified Forest member immediately under the Springdale sandstone member. There is much carbonized and silicified plant debris in this zone and zone, though not all, of the plant remains have been slightly mineralized, minor copper stain and some iron stain are the only visible evidences of mineralization. A zone approximately 4 feet thick, reported by the operators to be the highest grade, averaged only double background when examined with a Geiger counter. Two channel samples cut in this zone by the BMX engineer averaged 0.023 and 0.015 percent U_3O_8, less than 0.01 percent Sb_2O_3 and less than 0.01 percent Ta_2O_5.

Original interest in the property is reported to have derived from a mineralized log found in talus. Although this particular specimen was relatively high grade in uranium and copper, its counterpart has not been located in place.

The operators have accomplished some diamond drilling in the Shinarump formation but thus far no zones of mineralization have been encountered that warranted further investigation. At the base of the Shinarump formation there are many carbonized and silicified logs, however, except for fine-grained disseminations of pyrite and marcasite, this zone has not received any ore minerals.

It appears that the ore minerals thus far noted on the Colibrite group of claims have been only slightly concentrated in one thin bed in the Chinle formation, whether this concentration took place as a result of ground water action or was an original depositional feature is debatable. In either case the concentrating process was not sufficient to produce ore-grade material.

It does not seem likely that any large amount of near surface leaching has taken place as there is no evidence of subsurface pressures at the outcrop.

ORE POTENTIAL

The operators of the property have included with their application a series of assays of samples which indicate very minor amounts of Columbium, Tantalum, Zirconium, Gallium, Vanadium, Titanium, Uranium, Copper and Silver. None of the samples taken by AMC personnel or by the USM have assayed ore grade material. The area from which the assay samples have been taken is about 4 feet thick, several small pits opened along this zone have demonstrated a lateral extent of no more than 150 feet within which the mineralized zones apparentially exist. No ore grade material has yet been found on the property with the single exception of a fragment of mineralized talus. The property is without ore reserves.

PROPOSED EXPLORATION

The applicant has proposed an exploration program consisting of 400 feet of tunneling, 1,650 feet of diamond drilling and 4,300 feet of road building. The field examination has demonstrated there are no well defined targets nor is there sufficient likelihood of encountering sizable tonnages of ore grade material to justify further exploration on the property at this time.

CONCLUSIONS AND RECOMMENDATIONS

The Calimite group of claims, Washington County, Utah, owned by the Lake Mapes Mining and Exploration Company, is in an area of Triassic sediments which includes the Lower Triassic Moenkopi Formation, the Upper (?) Triassic Shinarump Formation and the Upper Triassic Chinle Formation. The rocks in

the chain area are mainly sandstone, mudstone and shale. Very clear, below ore-grade mineralization occurs sporadically in a 4 foot bed in the Chinle formation over a lateral distance of about 150 feet. There does not appear to have been sufficient leaching at the surface to have substantially decreased the ore content, consequently there is no basis for the assumption that higher grade more persistent ore zones will exist back from the outcrop.

It is recommended that the operator's application for government sandstone be denied on the grounds that there is little likelihood of encountering ore grade material of sufficient size to materially add to the nation's reserves.

Idaho Mineral Information
RECEIVED
JAN 24 1955

LEAD SILVER MINES AND EXPLORATION COMPANY
WASHINGTON COUNTY, IDAHO
Sub-joint
Brunton, Schalk, Columbian, Tombstone, Thorsen, Mabel and Dave Martin

Engineering Report

By V. L. Young
Mining Engineer
Bureau of Mines

Entered on
DATA CONTROL SYSTEM
1-26-55

LOST BOND MINING AND EXPLORATION COMPANY
WASHINGTON COUNTY, UTAH

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Project proposals	5
Conclusions and recommendations	6

ILLUSTRATIONS

Fig. 1 Location map, Lost Bond Mining and Exploration Company, Washington County, Utah

SUMMARY

Field examination in the vicinity of the claims owned by the Lake Hopre Mining and Exploration Company disclosed a large area of bench land underlain by the Shinarump formation. Sharp, narrow canyons cut the tableland and expose the full thickness of Shinarump in a few places. Exploration to date along the base of the Shinarump has not disclosed zones of enrichment of uranium or other mineralization at any location. Samples taken in the overlying Chinle formation disclosed mineralization too low in grade to be significant. It is recommended that the application for loan be denied.

INTRODUCTION

The property of the Lake Hopre Mining and Exploration Company was examined September 20, 1954, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. The examination was made at the request of the Field Team, Region IV, to determine the advisability of granting a Government assistance loan. S. S. Tenley, President, and Clarence Smith, Secretary-Treasurer, conducted the examining team over the property.

The company proposes to drill 1,000 feet in 20 drill holes, to drive two adits of 250 feet each, and to construct 2,250 feet of access road incidental to drilling and drifting. The work is planned to explore the formations at depth.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property lies in sections 24 and 25, T. 42 S., R. 11 W., and in unsurveyed sections 19 and 20, T. 42 S., R. 10 W., 6-1/2 miles south of Enoksville, Utah. The topography in the vicinity of the claims consists of low, rolling hills on a broad Shinarump bench. The bench land is surrounded on the south and east by high, steep cliffs of Wingate and Navajo sandstone. Most of the area is accessible over rough, dirt roads.

HISTORY AND PRODUCTION

There has been no production from the property. About 15 feet of exploratory drifting has been done, and a few prospect pits have been constructed at various locations on the property. The company is at present diamond drilling. Two holes have been drilled into the Shinarump formation. Considerable access-road work and some rip stripping has been done with a bulldozer.

OWNERSHIP AND EXTENT

The property involved consists of the following unpatented mining claims: LaPlata, Lolita, Rose Clare, Blue Verde, Caliente, Caliente Nos. 1 to 7, inclusive, Rattler, Rattler Nos. 1 and 2, Wishing, Rainbow, Bonine, Pinon, Polka Dot, Anita, Flash, Budget, Rolling, Geyser, Thunder, and Thunder No. 1.

DESCRIPTION OF THE DEPOSITS

Known mineralization in the area lies at the base of the Triassic Shinarump formation and in the Petrified Forest sandstone member of the Chinle formation. The Shinarump formation is predominantly shaly sandstone, sandstone, grit and thin pebble beds, varying from gray to brown in color. It is characterized by fragments and logs of petrified wood. Some carbon is present, but it is not as conspicuous as in some other localities. The thickness of Shinarump in the area varies between 70 and 120 feet. The overlying Chinle formation consists of variegated red, purple, gray, and brown shales with interbedded sandstone lenses. A few scattered bentis and occasional remnants of the Chinle remain on the broad Shinarump bench. All but a few tens of feet of the basal part of the Chinle has been denuded from most of the area. Sharp, narrow canyons excavate into the tableland, exposing the full thickness of Shinarump in a few places. A reconnaissance of the rims exposed at the base of the Shinarump does not reveal abnormal radioactivity at any place. The characteristic copper-vanadium mineralization is present in certain beds of the Chinle. This area is similar to other areas of this part of the State in that the uranium-bearing minerals are out of radioactive equilibrium and radiometric and chemical analyses vary widely. Occurrences of copper mineralization are too low in grade and too scattered to be of economic importance. Two samples were taken of the particular member in the Chinle on which most work was done.

The analyses are shown below:

Sample	[illegible]	Percent [illegible]	[illegible]
2	0.[illegible]	<0.01	<0.01
3	.015	< .01	< .01

[illegible]

There are no developed ore reserves on the property.

FUTURE PROPOSALS

The applicant proposes to construct 6,200 feet of access road to drill hole and adit sites, to drill 1,[illegible] feet of RC drill holes in 20 locations, and to drive two 200-foot adits. The cost of the work is estimated at $[illegible]. The applicant also proposes to hire a bulldozer at $50 per hour for road construction. The company owns a Longyear RX drill rig which is now operating on the property. The company proposes to use this rig and contribute labor and supervision in drilling. Underground work is to be contracted.

CONCLUSIONS AND RECOMMENDATIONS

The broad bench land lying in the vicinity of the above-listed claims is almost completely underlain by the Chinaman formation. Exploratory work along the base of this formation in the area of the claims and in locations adjacent to the claims has not revealed mineralization of significance. Radiometric highs slightly above normal background count occur in the basal part of the overlying Chinle formation. This is interpreted as being due to weak uranium

mineralization in the Chinle which is out of radioactive equilibrium, and not to mineralization in the underlying Shinarump. In view of the weak occurrences of known mineralization and little likelihood that deposits of significance will be found by the proposed exploration, it is recommended that the loan request be denied.

C

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

Department of the Interior
Defense Minerals Administration
RECEIVED
JAN 24 1955

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV — III

Subject: Report of Examination, DMEA Docket 3496, (Uranium, Columbium, Tantalum, Nickel, Thorium), Lobo Negro Mining and Exploration Co., Washington County, Utah

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

W. H. King

W. H. King

HMC:pw

E. N. Harshman

E. N. Harshman

Department of the Interior
Defense Minerals Administration
RECEIVED
JAN 24 1955

224 New Customhouse
Denver 2, Colorado

January 13, 1955

Mr. Clarence Smolka, Secretary
Lobo Negro Mining and Exploration Co.
2268 South 21st East
Salt Lake City, Utah

Re: Docket No. DMEA 3496

Dear Mr. Smolka:

Reference is made to your application for Government aid on the Caliente group.

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

A careful study of your property and data available to this agency reveals that the probability of disclosing minable reserves of Uranium, Columbium, Tantalum, Cobalt, Thorium, Nickel and Rare Earths is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

W. H. KING

W. H. King
Field Team, Region IV

HHC:pw

cc:

Subject
Chron
Administrator
Wilson
Osterstock
Harshman
Mining Div.
AEC

E. N. Harshman

E. N. Harshman
Field Team, Region IV

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 24 1955

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

Transmitted

December 16, 1954

JAN 13 1955

Memorandum

To: V. E. King, Executive Officer, DMA Field Team, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: Docket No. DMA-3484 (Uranium, cobalt, columbium, tantalum, nickel, thorium and rare earths) Lobo Negro Mining and Exploration Co., Washington County, Utah

Enclosed are the original and 16 copies of an engineering report covering examination of the subject property for DMA loan appraisal. Also included is a separate section of Summary, Conclusions and Recommendations, three copies each of forms 6-666 and 6-663, and a copy of the brochure. The report was prepared after examination of the property by V. E. Young with E. V. Sabatinsch of the Survey.

Known mineralization on the property occurs at the base of the Shinarump formation and in one northern member of the Chinle formation. The examination disclosed the presence of very weak mineralization. No evidence is present that mineralization of higher grade will be found by exploration beyond the outcrops. The examining engineer recommends that the loan request be denied. I concur with this recommendation.

The application was brought to the attention of the Atomic Energy Commission. Mineralization in the area was discussed with personnel of this agency.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

C
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P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

IN REPLY REFER TO:
Solid Minerals Administration
RECEIVED
JAN 24 1955

Transmitted
JAN 13 1955

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
December 10, 1954

Memorandum

To: E. N. Harshman EMH. for AHK

From: R. W. Osterstock

Subject: DMEA Docket 3496 (Uranium, et. al.) Lobo Negro Mining and Exploration Co., Caliente Group, Washington County, Utah.

Prior to visiting the Caliente group of claims in Washington County, Utah, I contacted R.J.Meehan (Salt Lake City Branch, AEC) who had examined the property during February 1954. Mr. Meehan provided me with a copy of his reconnaissance report (File No. RR-150). The conclusions drawn by Meehan were that the property did not warrant further attention at the time his report was written. E. E. Thurlow, Chief of the Salt Lake City Exploration Branch of the AEC, states that to the best of his knowledge the AEC has no other information on the property.

Upon returning from my own field investigation of the property I again contacted Meehan and discussed the applicant's DMEA loan request. We concluded that the property was not worthy of DMEA assistance at this time as there was very little chance of encountering material of sufficient size or grade as to add to the nations resources.

/s/ R. W. Osterstock

IN REPLY REFER TO:

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

Transmitted
JAN 13 1955

December 7, 1954

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3496 (Uranium, et al.), Lobo Negro Mining and Exploration Company, Caliente Group, Washington County, Utah

Enclosed are 11 copies of a geologic report by R. W. Osterstock of the U. S. Geological Survey covering the above docket.

The applicant proposes to explore for uranium, cobalt, columbium, tantalum, thorium, nickel, and rare earth ores on the Caliente claim group by 400 feet of drilling, 1850 feet of diamond drilling, and to construct 8,300 feet of access road. His estimated cost of the project is $30,000.

The property, located 8 miles south of the south boundary of Zion National Park, is in an area underlain by Triassic sedimentary rocks. Very minor amounts of copper, uranium, columbium, and tantalum are found associated with carbonized and silicified plant remains in the Petrified Forest member of the Chinle formation. Limited exploration by the applicant has indicated the poorly mineralized zone to be about 4 feet thick and to have a lateral extent, along the outcrop, of not over 150 feet.

Osterstock concludes that the exploration program requested by the applicant will not lead to the discovery of significant amounts of ore grade material. He recommends denial of the application for exploration assistance.

Although the report indicates close cooperation with the A.E.C., a positive statement to the effect that all A.E.C. data have been used in evaluating the property has been requested. When received, this statement will be forwarded to you.

C. N. Hershman
for A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

Office of the Director
Defense Minerals Administration
Washington

Transmitted

JAN 13 1955

Room 206 - 222 So. West Temple
Salt Lake City 1, Utah
December 3, 1954

Memorandum

To: R. W. Burnham, Field Team Region IV

From: R. W. Caterstock

Subject: DMA Contract 1496 (Uranium, et al.) Lake Mayre Mining and Exploration Company, Caliente Group, Washington County, Utah.

Enclosed are 11 copies of a geologic report on the Caliente group of claims. The operators have applied for a DMA loan to explore for Uranium, Cobalt, Columbium, Tantalum, Thorium, Nickel, and Rare Earths on the Caliente group in Washington County, Utah. A field examination was conducted September 29, by R. W. Caterstock (DMA) and W. B. Young (USBM). The examiners were accompanied in the field by S. G. Keeley and Clarence Smith, officers of the company.

The Caliente group is located about 5 miles south of the south end of Zion National Park in an area of Triassic sediments. Very minor mineralization has been found in a thin zone in the Upper Triassic Chinle formation. No ore grade material has yet been found and the property has no ore reserves.

The applicant has proposed the expenditure of $20,000 in drifting, diamond drilling and road building. There is little likelihood that such a program with no well defined targets would encounter ore grade material in sufficient quantity to materially add to the nation's reserves. It is, therefore, recommended that this application for government assistance be denied.

R. W. Caterstock

RWC/rm

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 24 1955

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. W. Osterstock and W. E. Young

Property of Lobo Negro Mining and Exploration Company in Washington County, Utah, was examined by DMEA personnel during September 1954 to appraise a request for Government assistance in exploration. The applicant has requested aid in exploring 27 lode claims for uranium, cobalt, columbium, tantalum, thorium, nickel and rare earths.

Project proposals submitted by the applicant consist of 8,300 feet of access road construction, 1,650 feet of EX drilling in 33 locations, and 400 feet of lateral underground work. Total cost of the exploration is estimated to be $20,000.

Known mineralization in the area occurs at the base of the Triassic Shinarump formation and in the Petrified Forest sandstone member of the Chinle formation. Exploratory work to date has disclosed no mineralization of significance and no evidence is present that higher-grade mineralization will be found beyond the outcrops by the proposed exploration. It is therefore recommended that the loan request be denied.

INTRODUCTION

The Lobo Negro Mining and Exploration Company, owners by location of the Caliente group of 27 lode claims, has applied for a DMEA loan to explore for Uranium, Cobalt, Columbium, Tantalum, Thorium, Nickel, and Rare Earth ores. Examination of the property was made September 29, 1954 by R. W. Osterstock (USGS) and W. K. Young (USBM). S. G. Wooley, the president, and Clarence Smolka, the secretary of the Lobo Negro Mining and Exploration Company accompanied the examiners in the field.

Location and accessibility

The Caliente group of claims is located in Sections 24 and 25, T. 42 S., R. 11 W., SLB&M and in Sections 30 and 31 (unsurveyed), T. 42 S., R. 10 W., SLB&M (see fig. 1). The claims may be reached by driving 1.8 miles south from Utah Highway 15 in Rockville, Washington County, Utah on an unimproved dirt road to the Horse Valley Wash ford, 1.7 miles beyond the ford turn left on primitive dirt road, continue 2.9 miles to wash crossing on Pinon claim.

History and production

There has been no production from the 27 claims comprising the Caliente group. The applicant had accomplished a small amount of diamond drilling and some trenching prior to the DMEA field team examination.

R. J. Meehan and Don Hetland, geologists for the Atomic Energy Commission, made a reconnaissance visit to the property February 10, 1954. They reported that the property did not warrant further attention at that time.

GEOLOGY

The Caliente group of claims lies in an area of eroded plateau type topography near the northern end of the Vermillion Cliffs.

The rocks exposed in the area are shale, sandstone, mudstone, and siltstone of Triassic and Jurassic age. The oldest rock exposed on the Caliente group of claims is the Lower Triassic Moenkopi formation; this chocolate to dark red colored, thin bedded, shaly siltstone and sandstone outcrops only in the bottoms of some of the more deeply eroded washes. Unconformably overlying the Moenkopi formation is the Upper (?) Triassic Shinarump formation. There are many carbonized logs with a north-south trend at the Moenkopi-Shinarump contact. The Shinarump is composed mainly of shaly sandstone, sandstone, grit and thin pebble beds; it varies from gray to reddish brown in color. The best sections of the Shinarump are exposed in the walls of the washes and gullies in the area; its greater resistance to erosion makes the Shinarump a bench former so that most of the basin floor in the area is essentially the top of the Shinarump.

Conformably overlying the Shinarump is the Upper Triassic Chinle formation which is composed of sandstone, mudstone, sandy shale, and shale. This formation displays a wide range of color from red through yellow, white, purple, gray, buff and brown. The Chinle has been subdivided into the Lower sandstone, Petrified Forest member, Springdale sandstone member and the Upper sandstone.

ORE DEPOSITS

All of the known mineralization is confined to the Chinle formation, specifically to the Petrified Forest member immediately under the Springdale sandstone member. There is much carbonized and silicified plant debris in this zone and some, though not all, of the plant remains have been slightly mineralized, minor copper stain and some iron stain are the only visible evidences of mineralization. A zone approximately 4 feet thick, reported by the operators to be the highest grade, averaged only double background when examined with a Geiger counter. Two channel samples cut in this zone by the USBM engineer assayed 0.023 and 0.015 percent U_3O_8, less than 0.01 percent Cb_2O_5 and less than 0.01 percent Ta_2O_5.

Original interest in the property is reported to have derived from a mineralized log found in talus. Although this particular specimen was relatively high grade in uranium and copper, its counterpart has not been located in place.

The operators have accomplished some diamond drilling in the Shinarump formation but thus far no zones of mineralization have been encountered that warranted further investigation. At the base of the Shinarump formation there are many carbonized and silicified logs, however, except for fine-grained disseminations of pyrite and marcasite, this zone has not received any ore minerals.

It appears that the ore minerals thus far noted on the Caliente group of claims have been only slightly concentrated in one thin band in the Chinle formation, whether this concentration took place as a result of ground water action or was an original depositional feature is debatable. In either case the concentrating process was not sufficient to produce ore-grade material.

It does not seem likely that any large amount of near surface leaching has taken place as there is no evidence of subtractive processes at the outcrop.

ORE RESERVES

The operators of the property have included with their application a series of assays of samples which indicate very minor amounts of Columbium, Tantalum, Zirconium, Gallium, Vanadium, Titanium, Uranium, Copper and Silver. None of the samples taken by AEC personnel or by the USBM have assayed ore grade material. The zone from which the assay samples have been taken is about 4 feet thick, several small pits opened along this zone have demonstrated a lateral extent of no more than 150 feet within which the mineralized areas sporadically exist. No ore grade material has yet been found on the property with the single exception of a fragment of mineralized talus. The property is without ore reserves.

PROPOSED EXPLORATION

The applicant has proposed an exploration program consisting of 400 feet of tunneling, 1,650 feet of diamond drilling and 8,300 feet of road building. The field examination has demonstrated there are no well defined targets nor is there sufficient liklihood of encountering minable tonnages of ore grade material to justify further exploration on the property at this time.

CONCLUSIONS AND RECOMMENDATIONS

The Caliente group of claims, Washington County, Utah, owned by the Lobo Negro Mining and Exploration Company, is in an area of Traissic sedimets which includes the Lower Triassic Moenkopi formation, the Upper (?) Triassic Shinarump formation and the Upper Triassic Chinle formation. The rocks in

the claim area are mainly sandstone, mudstone and shale. Very minor, below ore-grade mineralization occurs sporadically in a 4 foot bed in the Chinle formation over a lateral distance of about 150 feet. There does not appear to have been sufficient leaching at the surface to have substantially decreased the ore content, consequently there is no basis for the assumption that higher grade more persistent ore zones will exist back from the outcrop.

It is recommended that the operator's application for government assistance be denied on the grounds that there is little liklihood of encountering ore grade material of sufficient size to materially add to the nation's reserves.

LOBO NEGRO MINING AND EXPLORATION COMPANY
WASHINGTON COUNTY, UTAH
DMEA-3496
Uranium, Cobalt, Columbium,
Tantalum, Thorium, Nickel
and Rare Earths

Engineering Report

By W. E. Young
Mining Engineer
Bureau of Mines

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 24 1955

LOBO NEGRO MINING AND EXPLORATION COMPANY
WASHINGTON COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Lobo Negro Mining and Exploration Company, Washington County, Utah

SUMMARY

Field examination in the vicinity of the claims owned by the Lobo Negro Mining and Exploration Company disclosed a large area of bench land underlain by the Shinarump formation. Sharp, narrow canyons cut the tableland and expose the full thickness of Shinarump in a few places. Exploration to date along the base of the Shinarump has not disclosed zones of enrichment of uranium or other mineralization at any location. Samples taken in the overlying Chinle formation disclosed mineralization too low in grade to be significant. It is recommended that the application for loan be denied.

INTRODUCTION

The property of the Lobo Negro Mining and Exploration Company was examined September 29, 1954, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. The examination was made at the request of the Field Team, Region IV, to determine the advisability of granting a Government assistance loan. S. G. Woolley, President, and Clarence Smolka, Secretary-Treasurer, conducted the examining team over the property.

The company proposes to drill 1,650 feet in 33 drill holes, to drive two adits of 200 feet each, and to construct 8,300 feet of access road incidental to drilling and drifting. The work is planned to explore the formations at depth.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The property lies in sections 24 and 25, T. 42 S., R. 11 W., and in unsurveyed sections 19 and 30, T. 42 S., R. 10 W., 6-1/2 miles south of Rockville, Utah. The topography in the vicinity of the claims consists of low, rolling hills on a broad Shinarump bench. The bench land is surrounded on the south and east by high, steep cliffs of Wingate and Navajo sandstone. Most of the area is accessible over rough, dirt roads.

HISTORY AND PRODUCTION

There has been no production from the property. About 15 feet of exploratory drifting has been done, and a few prospect pits have been excavated at various locations on the property. The company is at present diamond drilling. Two holes have been drilled into the Shinarump formation. Considerable access-road work and some rim stripping has been done with a bulldozer.

OWNERSHIP AND EXTENT

The property involved consists of the following unpatented mining claims: LaPlata, Lolita, Dona Clara, Rico Verde, Caliente, Caliente Nos. 1 to 7, inclusive, Rattler, Rattler Nos. 1 and 2, Wickiup, Rainbow, Domino, Pinon, Polka Dot, Anita, Flash, Jackpot, Redwing, Geyser, Thunder, and Thunder No. 1.

DESCRIPTION OF THE DEPOSITS

Known mineralization in the area lies at the base of the Triassic Shinarump formation and in the Petrified Forest sandstone member of the Chinle formation. The Shinarump formation is predominantly shaly sandstone, sandstone, grit and thin pebble beds, varying from gray to brown in color. It is characterized by fragments and logs of petrified wood. Some carbon is present, but it is not as conspicuous as in some other localities. The thickness of Shinarump in the area varies between 70 and 100 feet. The overlying Chinle formation consists of variegated red, purple, gray, and brown shales with interbedded sandstone lenses. A few scattered knolls and erosional remnants of the Chinle remain on the broad Shinarump bench. All but a few tens of feet of the basal part of the Chinle has been denuded from most of the area. Sharp, narrow canyons encroach into the tableland, exposing the full thickness of Shinarump in a few places. A reconnaissance of the zone exposed at the base of the Shinarump does not reveal abnormal radioactivity at any place. The characteristic copper-uranium mineralization is present in certain beds of the Chinle. This area is similar to other areas of this part of the State in that the uranium-bearing minerals are out of radioactive equilibrium and radiometric and chemical analyses vary widely. Occurrences of copper mineralization are too low in grade and too scattered to be of economic importance. Two samples were taken of the particular member in the Chinle on which most work was done.

The analyses are shown below:

Sample	Percent		
	U_3O_8	Cb_2O_5	Ta_2O_5
2	0.023	<0.01	<0.01
3	.015	< .01	< .01

ORE RESERVES

There are no developed ore reserves on the property.

PROJECT PROPOSALS

The applicant proposes to construct 8,300 feet of access road to drill hole and adit sites, to drill 1,650 feet of EX drill holes in 33 locations, and to drive two 200-foot adits. The cost of the work is estimated at $20,000. The applicant also proposes to hire a bulldozer at $10 per hour for road construction. The company owns a Longyear EX drill rig which is now operating on the property. The company proposes to use this rig and contribute labor and supervision in drilling. Underground work is to be contracted.

CONCLUSIONS AND RECOMMENDATIONS

The broad bench land lying in the vicinity of the above-listed claims is almost completely underlain by the Shinarump formation. Exploratory work along the base of this formation in the area of the claims and in locations adjacent to the claims has not revealed mineralization of significance. Radiometric highs slightly above normal background count occur in the basal part of the overlying Chinle formation. This is interpreted as being due to weak uranium

mineralization in the Chinle which is out of radioactive equilibrium, and not to mineralization in the underlying Shinarump. In view of the weak occurrences of known mineralization and little likelihood that deposits of significance will be found by the proposed exploration, it is recommended that the loan request be denied.

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

SEP 20 1954

224 New Customhouse
Denver 2, Colorado

September 17, 1954

Mr. Clarence Smolka,
Secretary and Treasurer
Lobo Negro Mining and Exploration Company
2268 South 21st East
Salt Lake City, Utah

Re: Application for DMEA assistance (Uranium, Cobalt, Columbium, Tantalum, Thorium, Nickel, and Rare Earths), Lobo Negro Mining and Exploration Company, Washington County, Utah

Dear Mr. Smolka:

This will acknowledge receipt of your revised application dated August 23, 1954 on the Caliente group of unpatented mining claims in Washington County, Utah.

You will be advised prior to the date of the field examination so your representative may be present at that time.

Very truly yours,

John F. Shaw

John F. Shaw
For W. H. King
Executive Officer, DMEA
Field Team, Region IV

RDB:jp
cc Subject
Administrator DMEA
SRWilson
ABrokaw
AHKoschmann
Chron

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

224 New Customhouse
Denver 2, Colorado

September 17, 1954

Memorandum

To: C. O. Mittendorf, Administrator, DMEA, Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

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

Lobo Negro Mining and Exploration Co. (U, Co, Cb, Ta, Th, Ni, and Rare Earths)
Washington County, Utah

John F. Shaw
For W. H. King

Enclosures

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

SEP 20 1954

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Washington County, Utah

John F. Shaw
John F. Shaw
For W. H. King

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Received
SEP 20 1954

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

Not to be filled in by applicant

Docket No. 3496
Metal or Mineral Uranium, et al.
Date Received
Estimated Cost $20,000
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Lobo Negro Mining and Exploration Company
2268 South 21st East
Salt Lake City, 6 Utah

(*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. Incorporated in State of Utah

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

(*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 Caliente group consisting of 27 lode claims. See attached sheet. These claims located in T 42 S R 10 and R 11 West Salt Lake Base Meridian, Washington County, Utah.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Locaters of unpatented mining claims.

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

(*e*) If you own the land, describe any liens or encumbrances on it None

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

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium, Cobalt, Columbium, Tantalum, Thorium, Nickel and Rare Earths.

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

(*c*) The work will start within 10 days and be completed within 24 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. See attached answers.

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: See list.

(*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)? Yes

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

[X] Money [X] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Aug. 23, 1954

Lobo Negro Mining & Exploration Co.
(Applicant)

By Clarence Smolka

Clarence Smolka, Secretary, Treas.

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.

INT.-DUP. SEC., WASH., D.C. 64941

Lobo[illegible]gro Mining and Exploratio[illegible] Company

1. (c)	President	S. G. Woolley	Sprindale, Utah
	Vice-President	Wayne DeMille	Rockville, Utah
	Secretary-Treas.	Clarence Smolka	2268 So. 21st East Salt Lake City, Utah
	Director	Donna Sm olka	2268 So. 21st East Salt Lake City, Utah
	Director	Lola Woolley	Springdale, Utah.

4. (a) Some tunnel portals started, trenching, trails, road work and some diamond drilling has been done by this company. No mine workings except two powder magazines. No production to date. The area is accessible by automobile to within one miles of any claim.

(b) None.

(c) The properties are in the chinle, shinarump, moenkopi formations. The type of deposit is bedded. The area is highly mineralized with replacements in the fossil wood and receptive sandstone and shales. We wish to further explore this property to try to locate the deposits of Uranium, Columbium, Tantaluim, Cobalt, Thorium, Nickel and Rare Earths which we have found traces of. (See reports attached,) Request these be returned.

(d) The claims are located 8 miles from class A road. This road passes through Rockville and Springdale which are the nearest towns. Part of the eight miles is county road and the last two miles is private road of our own construction. The nearest railroad is at Cedar City, Utah which is about 64 miles from the center of the claims.

(e) Manpower is available locally. Materials can be purchased at Hurricane, Utah (about 25 miles from the claims). Supplies at Hurricane. Water is available from the stream running through the claims which flows about two second feet at the low period. No power on the claims but Southern Utah Power Company lines run through rockville, 9 miles away by road, (less on straight line.)

5. (b) We wish to tunnel into the various beddings to locate the ore deposits, do one more diamond drilling, for location of ore, and build additional access roads to the portal sights.

(d) The person who will supervise the operation is Steven G. Woolley. Has been Associated with mining and engineering for forty years. He worked as superintendent of Grafic Mines, Robinson, Cilorado, 1938 and 1939. Superintendent of Hahn's Peak Gold Mining and Milling Corporation, Rock County Colorado. Leasing experience lead and zinc production in Colorado and Utah. Associated with Swedish American Geophysical Prospection Corporation and Petroleum Research in Canada and California. Surveying with Utah State Road Commission during War under direct contract with War Dept. With civilian archetiect and engineering at Chemical Warfare in Utah. Etc.

6. Total cost estimated at about $20,000.00.

(a) Road work to be on contract which will run about $10.00 per hour. Other work to be done by our own stockholders principley.

(b, c, d, e, f, g, and h.) The wages for labor etc., will be paid for at the existing rates for this district. The supervisor wil work directly with each operation. When it is necessary to use the equipment owned by the corporation, only the expense of operation and maintainence will be included in the monthly expense. All equipment which we now have on the property is paid for except for a mobil 105 compressor. (Schramm Pneumatractor Compressor) on which we have made six rental purchase payments

of $655.50 each. There are yet to be paid six additional payments of $655.50 each. We will build a building for use as a shop and tool etc., storage place at a cost of about five hundred dollars.

7. Money for our share will be raised from our stockholders and the use of equipment will be charged as rental on the basis of what it would cost to rent like equipment from a reputable equipment supply company.

Mining Claims of Lobo Negro Mining & Exploration Co.

Claim:	Book:	Page:	Entry No.
La Plata	M24	340	85810
Lolita	M24	340	85777
Donna Clara	M24	348	85776
Dico Verde	M24	346	85529
Caliente	M24	346	85047
Caliente #1	M24	349	85048
Caliente #2	M24	349	85049
Caliente #3	M24	350	85050
Caliente #4	M24	503	85150
Caliente #5	M24	505	85155
Caliente #6	M24	455	86633
Caliente #7	M24	417	86448
Rattler	M24	340	85042
Rattler #1	M24	414	86395
Rattler #2	M24	454	86394
Wickiup	M24	340	85945
Rainbow	M24	348	85041
Domino	M24	414	86394
Pinon	M24	570	85985
Polka Dot	M24	300	85984
Anta	M24	370	85981
Flash	M24	370	85982
Jackpot	M24	484	86805
Bodwing	M24	430	86718
Geyser	M24	485	86805
Thunder	M24	436	86719
Thunder #1	M24	436	86720

Lobo Negro Mining and Exploration Company
2268 South 21st East
Salt Lake City, Utah

RECEIVED
SEP 20 1954

Further information requested.

1. The number of feet of drifting which we propose to do would be a total of 400 feet in two separate tunnels, 200 feet each. The diamond drilling would be about 1650 feet more or less in about 33 holes of around 50 feet each. Road building would be about 8300 feet of new roads. Then the miscellaneous items.

2.	Drilling	1650 feet @ $4.50 per foot approximately	$7,500.00
	Roads	8300 feet. Rent of Bulldozer $10.00 per hour, plus our own labor and supervision for approximatly 90 hours	$1,400.00
	Drifting	400 feet @ $22.00 per foot	8,800.00
	Camp, Assays Labor, Lumber Etc.		1,800.00
		Estimated Total Cost	$20,000.00

The hours on road work are based on our experience of building our present roads. We will use our Mr. S. G. Woolley to supervise and also do part of the work (labor and technical) insofar as he can. In addition to any other help Mr. Woolley will need in the various stages of the operation. The drilling we will do with our present equipment.

Enclosed you will find maps showing eh information you requested.

Yours very truly

Clarence Smolka

Clarence Smolka
Secretary-Treasurer

Lobo Negro Mining and Exploration Company
2238 South 21st East
Salt Lake City, Utah

Dear Sir:

Attached you will find some Smith Emery reports and Atomic Energy Commission letters. In addition to these we have had a number of other tests and assays made by private assayers and the Bureau of Mines which showed Uranium, Thorium, and Cobalt. The cobalt was in a few samples of float which we picked up on the Caliente No. 5 claim. As yet we have been unable to pin the exact location from which these pieces came.

Request that these reports be returned.

Respectfully yours,

Clarence Snolka

Clarence Snolka, Secretary-Treas.

SMITH-EMERY COMPANY

CHEMISTS AND ENGINEERS
CHEMICAL, ASSAYERS AND METALLURGICAL ENGINEERS
800 SANSOME STREET
SAN FRANCISCO 10
CALIFORNIA

LOS ANGELES
801 E. 8TH AVENUE
LOS ANGELES 21, CALIFORNIA

Date April 16, 1954

Marked

To: B.G.Lewis
Pete Mining & Exploration Co.,
Box 117,
Springville, Utah.

REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

Element	Approximate Quantity
Silicon	Major Constituents
Aluminum, Calcium	Intermediate Constituents
	Minor Constituents
Iron	1%
Manganese	0.5%
Potassium	0.1%
Magnesium	0.1%
Barium	0.05%
Titanium	0.05%
Zirconium	0.01%
Strontium	0.01%
Boron	0.005%
Copper	0.005%
Lead	0.001%
Chromium	0.001%
Vanadium	0.001%
Phosphorus	None found
Tungsten	None found
Sodium	None found

Respectfully submitted,

SMITH-EMERY CO.

CHEMISTS AND ENGINEERS

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them is reserved pending our written approval as a matter of protection to clients, the public and ourselves.

COPY

SMITH-EMERY COMPANY

CHEMICAL ENGINEERS AND CHEMISTS
METALLURGICAL AND TESTING ENGINEERS
930 SANTEE STREET
LOS ANGELES 15
CALIFORNIA

OUR NEW ADDRESS
701 E. WASHINGTON BLVD.
LOS ANGELES 15, CALIFORNIA

LABORATORY No. 357112

Date July 30, [illegible]

Sample Pulp

Received 7-16-56

Marked

Submitted by S. G. Foolley,
Box 117,
Springdale, Utah.

REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

Element	Approximate Quantity
Silicon	Major Constituent.
Zirconium, Columbium	Intermediate Constituents.
	Minor Constituents:
Aluminum	0.5%
Titanium	0.5%
Barium	0.5%
Calcium	0.5%
Tantalum	0.5%
Iron	0.1%
Manganese	0.05%
Magnesium	0.05%
Lead	0.01%
Copper	0.01%
Boron	0.005%
Vanadium	0.005%
Chromium	0.005%
Molybdenum	0.001%
Rare Earths	Present

Remarks: The rare earths are of special interest as well as the zirconium, columbium and tantalum. It is slightly radioactive but not enough to show on the spectrogram which has a low limit of 0.5% uranium or thorium.

Respectfully submitted,

SMITH-EMERY CHEMISTS AND ENGINEERS.

EOS

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them is reserved pending our written approval as a mutual protection to clients, the public and ourselves.

(See statements on reverse side regarding qualitative spectrographic examination)

COPY

SMITH-EMERY COMPANY

CHEMICAL ENGINEERS AND CHEMISTS
METALLURGICAL AND MINING ENGINEERS
900 SANTEE STREET
LOS ANGELES 15
CALIFORNIA

LABORATORY
No. 379090

Date January 26, 1954

Sample Pulp

Received 1/18/54

Marked "El Lobo Negro Mine"

Submitted by S.G.Woolley,
Lobo Negro Mining & ExplorationCorp.,
Box 117,
Springdale, Utah.

REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

Element	Approximate Quantity
Silicon	Major Constituent
Calcium, Barium, Iron, Aluminum	Intermediate Constituents
Minor Constituents	
Sodium	1%
Magnesium	0.5%
Potassium	0.5%
Titanium	0.5%
Manganese	0.1%
Zirconium	0.1%
Strontium	0.05%
Copper	0.05%
Boron	0.005%
Gallium	0.005%
Vanadium	0.005%
Chromium	0.001%
Rare Earths	Trace

Respectfully submitted,

CHEMISTS AND ENGINEERS

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(See statements on reverse side regarding qualitative spectrographic examinations)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Salt Lake City, Utah

C O P Y

No. _____

Report to Mr. S. R. Stoddard (R.M.)

Chemical Laboratory Report

Date received December 15, 1953

Date reported Dec. 22, 1953

Lab. No.	DESCRIPTION	Lot No.	βU_3O_8	αU_3O_8	Cu	Ag	V_2O_5
21,022	Chinle formation - Cu - Uranium stained Top	101752	0.01	0.012	3.41	0.5	0.25
21,023	" "	101752a	0.02	0.015	4.98	0.2	0.11

Samples from the Caliente No. 5 Claim, 6 miles south of Rockville, (Mr. Wooley) Washington County, Utah

(Taken by Mr. Mathewson Dec. 14, 1953)

(Surface)

Signed [redacted]

UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF RAW MATERIALS
SALT LAKE EXPLORATION BRANCH

[illegible]
[illegible] ATOMIC ENERGY COMMISSION
[illegible] 2800
[illegible] LAKE CITY, UTAH

[illegible]

[illegible]:[illegible]:[illegible]:[illegible]

March 11, 1953

Mr. Clarence Smolka
2266 South 21st East
Salt Lake City, Utah

Dear Mr. Smolka:

Laboratory reports on uranium samples from your prospects in the vicinity of Kanab and Springdale, Utah indicate to us that you and your partner, Mr. Steve Wooley, are actively engaged in uranium prospecting in that area.

The Atomic Energy Commission now has geologists in that area doing reconnaissance work who would be available, upon prior arrangement, to visit any of your uranium properties for the purpose of helping you evaluate them. The geologists referred to are attached to our Richfield, Utah Sub-office and are under the direction of Mr. H. E. Nelson, Chief.

If you have any properties which you would like to have inspected by our geologists, please contact Mr. Nelson at Richfield at the CPA Building (Phone 161), and arrangements can be made for the visit. We are writing you because we have been unable to reach you by phone. Do not hesitate to call or visit us if we can be of further service.

Sincerely yours,

Ernest E. Thurlow

Ernest E. Thurlow, Chief
Salt Lake Exploration Branch
Division of Raw Materials

cc: H. E. Nelson

UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF RAW MATERIALS
SALT LAKE EXPLORATION BRANCH

ADDRESS REPLY TO:
U. S. ATOMIC ENERGY COMMISSION
P. O. BOX 2100
SALT LAKE CITY, UTAH

AND REFER TO:

[illegible]

[illegible]

[illegible]

[illegible] envelope provided?

Very truly yours,

[illegible] E. [illegible], Chief
[illegible] Exploration Branch
[illegible] Materials

Enclosure:
1. [illegible]

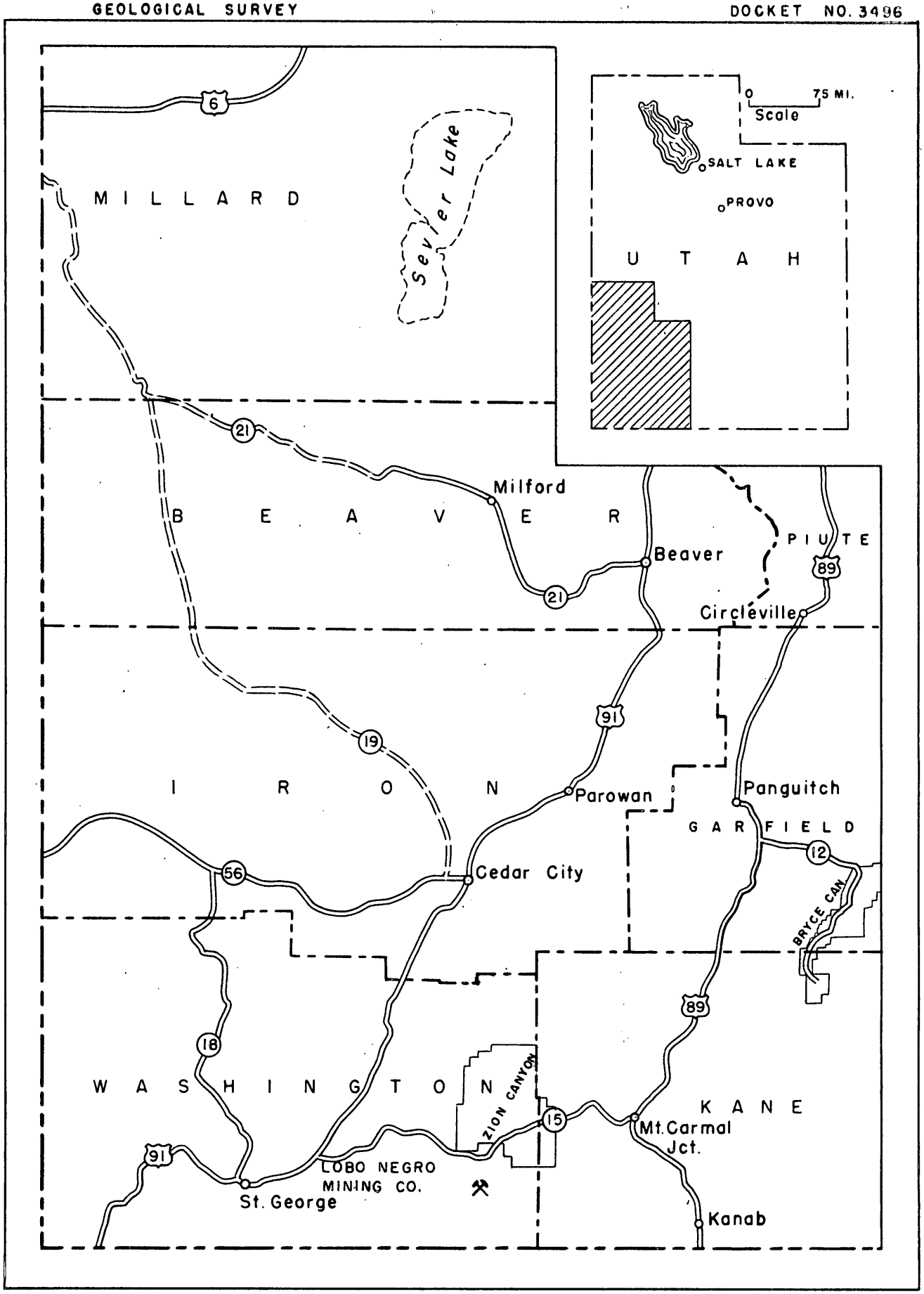


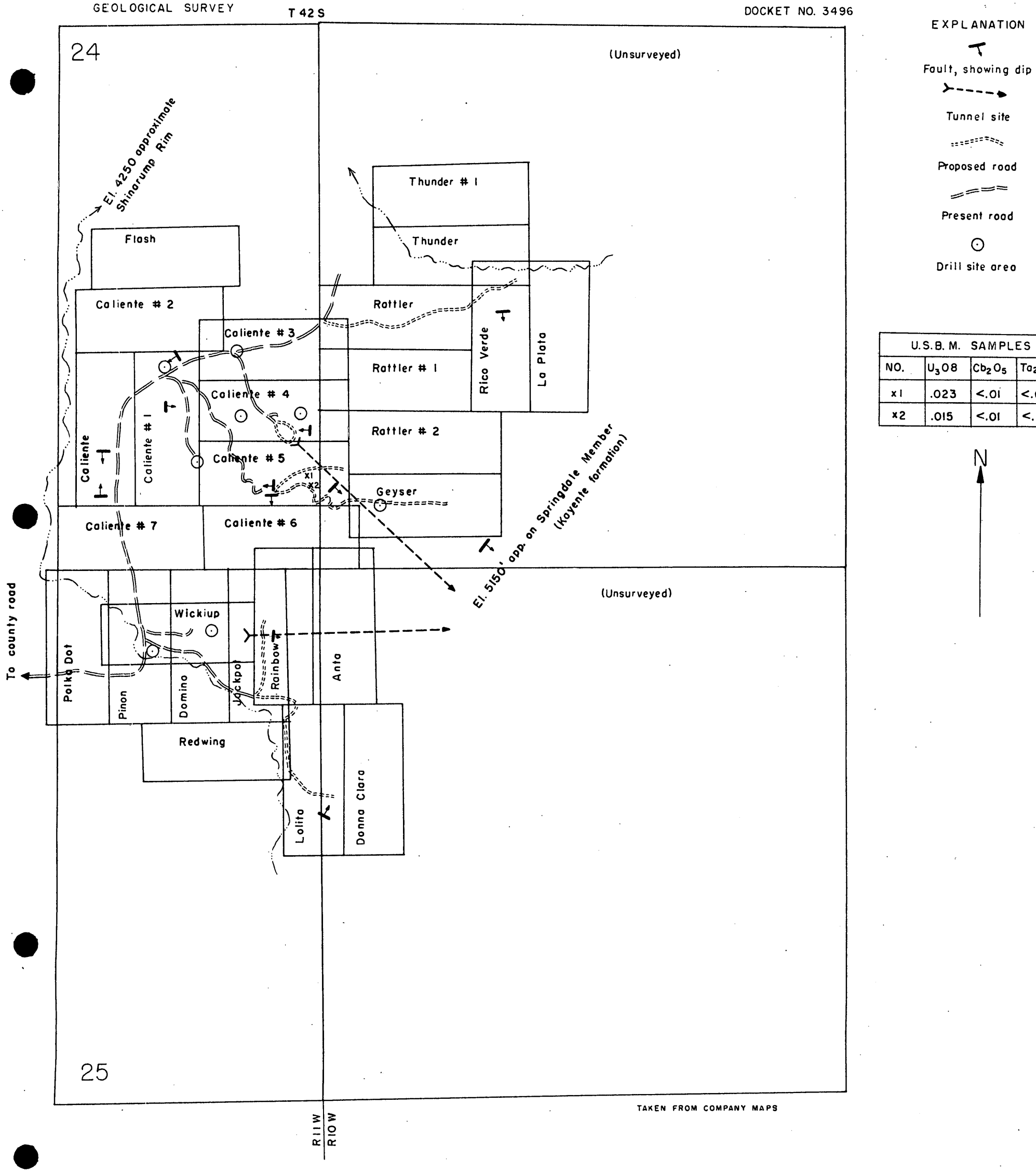
FIG. 1 INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 24 1955

U.S. DEPARTMENT THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3496



U.S.B.M. SAMPLES			
NO.	U_3O_8	Cb_2O_5	Ta_2O_5
x1	.023	<.01	<.01
x2	.015	<.01	<.01

FIG. 2 CALIENTE CLAIMS, LOBO NEGRO MINING AND EXPLORATION CO.

WASHINGTON COUNTY, UTAH

0 1000 2000 FEET APP.
Scale

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 24 1955

U.S. DEPARTMENT THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
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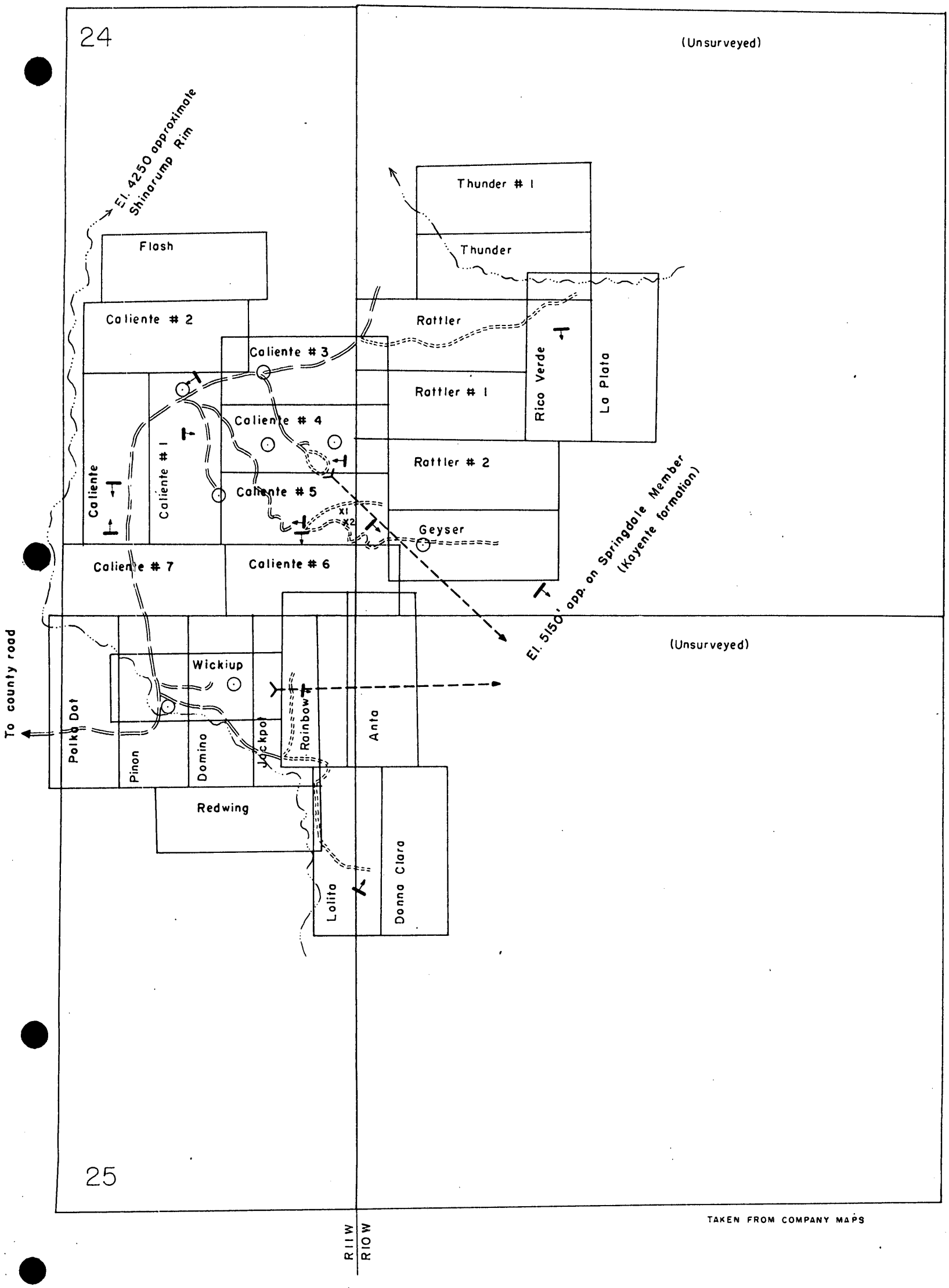


EXPLANATION

Fault, showing dip

Tunnel site

Proposed road

Present road

Drill site area

U.S.B.M. SAMPLES			
NO.	U_3O_8	Cb_2O_5	Ta_2O_5
x1	.023	<.01	<.01
x2	.015	<.01	<.01

N

TAKEN FROM COMPANY MAPS

FIG. 2 CALIENTE CLAIMS, LOBO NEGRO MINING AND EXPLORATION CO.

WASHINGTON COUNTY, UTAH

0 1000 2000 FEET APP.
Scale

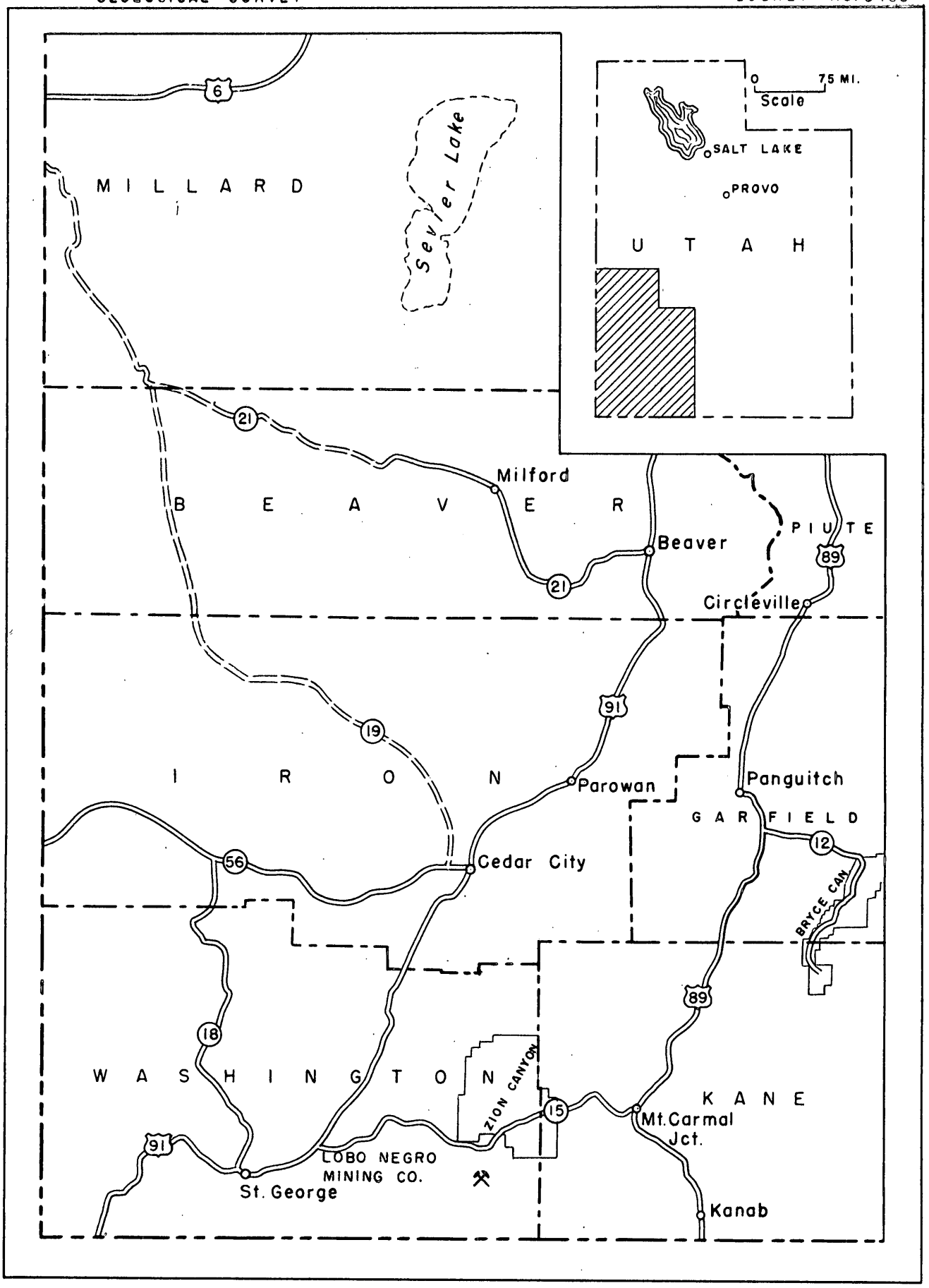
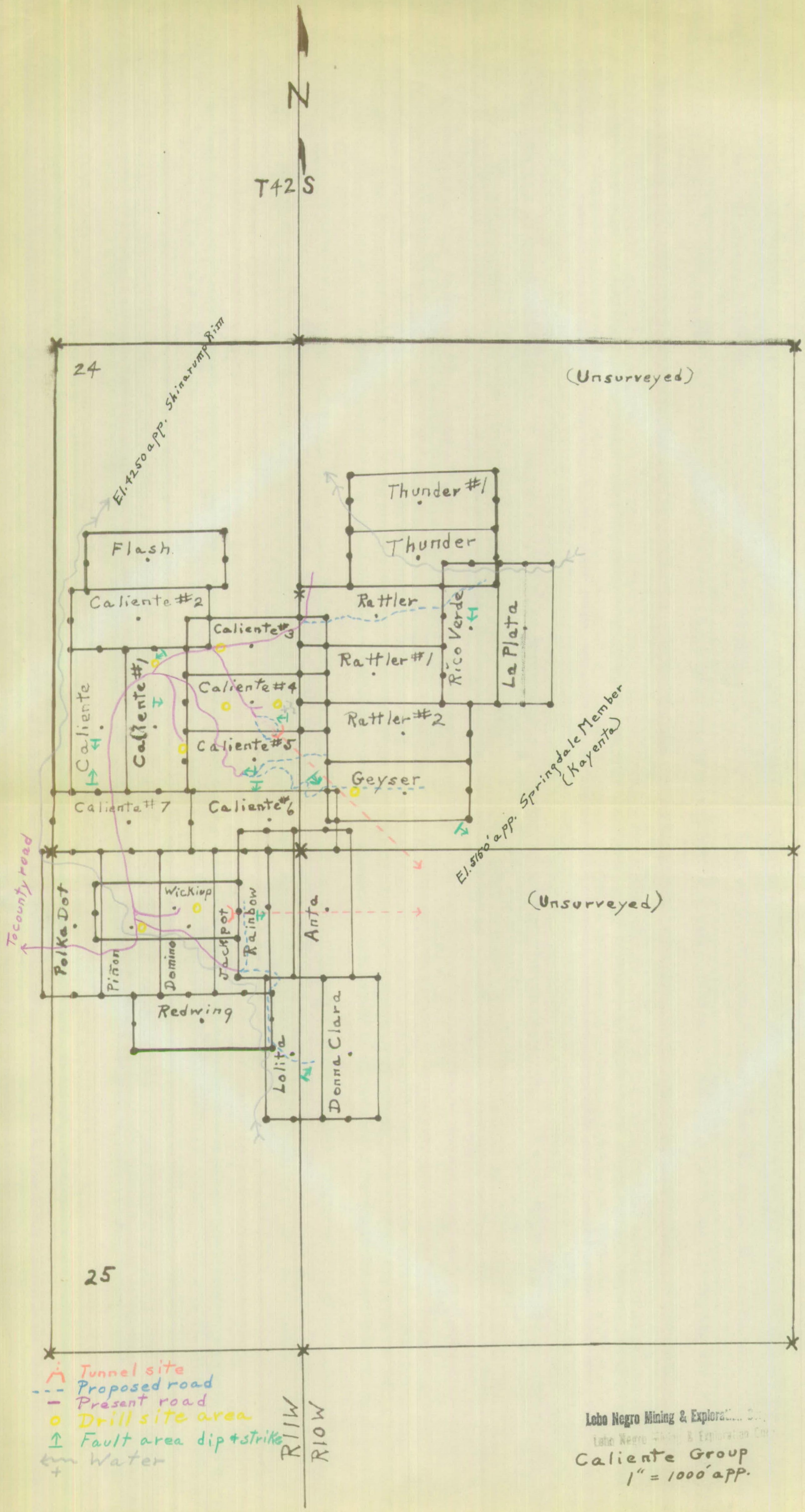


FIG. 1 INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale



Lobo Negro Mining & Exploration Co.

Caliente Group
1" = 1000' app.

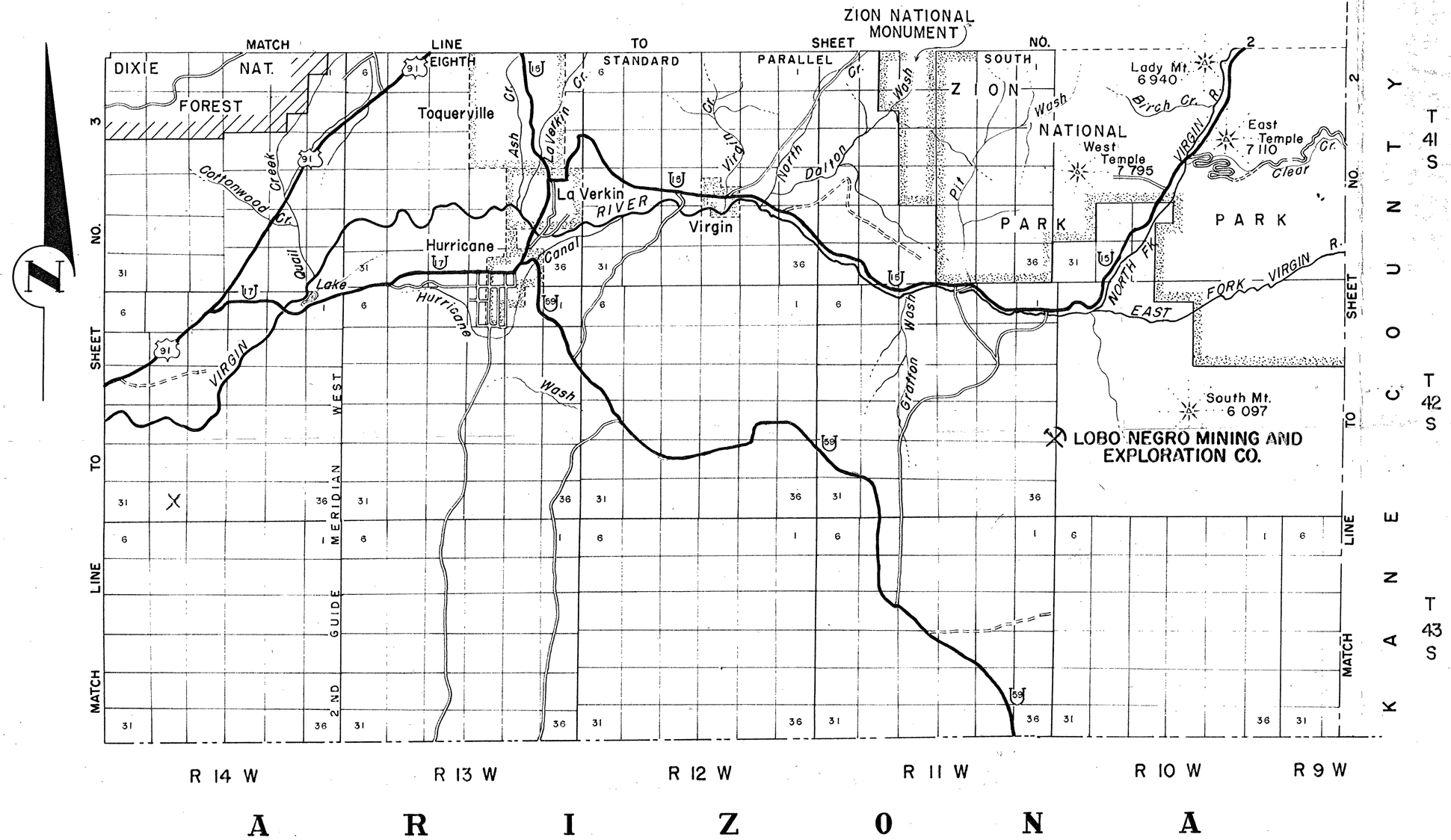
DEFENSE MINERALS
EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~

OFFICIAL BUSINESS

UNITED STATES POSTAGE 1 CENT 1

5 P 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Dept. of the Interior
Washington 25, D.C.



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3496

STATE : UTAH

COUNTY : WASHINGTON

Sheet 4 of 4

Location Map

ENGINEER *W. E. Young*	DATE: OCT. 8, 1954
TRACED: OCT., 1954; BY: A.P.T.S.	1900 - 304 - C
CHECKED :	