700

FILE C

Surname

Murphy
Lehr
Berhow
Kiilsgaard
Martin
Johnson

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

JUN - 7 1956

Mr. L. J. Fyans, General Manager
Gunsite Butte Uranium Corporation
26 West Broadway
Salt Lake City, Utah

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizzard, and Fossil Groups
Garfield County, Utah

Dear Mr. Fyans:

Reference is made to your application for Government aid in an exploration project on the above-named claims.

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

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

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

Sincerely yours,

G. O. Mittendorf

Administrator

FMMurphy/izm 6-5-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Reg. III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

June 1, 1956

Murphy
Ellis

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-3902

Commodity: Uranium

Applicant: Gunsite Butte Uranium Corporation
L. J. Fyans, General Manager
26 West Broadway
Salt Lake City, Utah

Property: Owners of 60 unpatented mining claims: Butte Group, Nos. 1 to 20 (Inclusive), Lizard Group, Nos. 1 to 20 (Inclusive), and Fossil Group, Nos. 1 to 20 (Inclusive), situated in unsurveyed area approximately in secs. 22, 27, 28, 29, 31, and 32, T. 31 S., R. 16 E; in sec. 36 T. 31 S., R. 15 E; and in secs. 1, 2, 3, 9, 10, 11, and 12, T. 32 S., R. 15 E., S.L.B.M., Garfield County, Utah.

Date of Application: July 15, 1955

More information requested.

Referred to Region III: December 13, 1955

Field Examination Made: March 6, 1956

Field Report Received: May 14, 1956

Work Proposed: Construction of access roads and drill sites. Drill holes along road at 200 foot intervals. The estimated average depth of the holes is 175 feet on the Butte Group and 150 feet on the Lizard and Fossil groups. A total of 170 holes to be drilled in Stage I and 50 holes in Stage II.

Estimated Costs:

34,275 ft. non-core drilling @ $2.50/ft.	$85,687.50	
1,250 ft. core drilling @ $4/ft.	5,000.00	
Road and drill site	1,600.00	
Labor & Supervision	3,720.00	
Materials & Supplies	102.50	
125 samples analyzed for U_3O_8 @ $3.50/each	437.50	
TOTAL		$96,547.50

Excerpts from Field Team Report:

The claims are located on gently dipping sandstones and mudstones of Triassic and Jurassic age. The rocks dip about 10 degrees to the northwest and are cut by two east-west trending normal faults.

The contact of the Moenkopi formation of Triassic age and the overlying Triassic Chinle formation is extensively exposed on the property. The Monitor Butte and Moss Back members of the Chinle are the potential 'ore horizons' on the claims. On the Butte Group the Monitor Butte member averages about 60 feet thick and is overlain by 20 to 30 feet of the MossBack member. On the Fossil and Lizard groups the Monitor has been eroded and the conglomerates and sandstones of the Moss Back member rest directly on the Moenkopi formation. The Moss Back member forms a relatively thick and uniform blanket on the Fossil and Lizard claims and the lower contact has only minor irregularities.

Ore deposits of commercial size and grade are unknown in the vicinity of the claims.

Mineralized material on the Butte group is confined to a sandstone lens of the Monitor Butte member. Where this sandstone rim has been stripped just north of the Butte group the lens is carbonaceous with the logs and plant fragments indicating a grade of 0.04 to 0.05 percent U_3O_8. South of the stripped area the sandstone is discontinuously exposed. Many of the outcrops carry similar radioactivity but minable reserves are unknown.

The potential ore horizon of the Fossil and Lizard group is the Moss Back member. The Moss Back is a relatively thick and uniform blanket-like layer and lacks features usable as guides for ore. It is known to be mineralized at only one spot and there the mineralization is confined to carbonaceous trash.

The geology of the group is similar to that of the Simplot claims a few miles to the northwest. The Simplot claims were explored under Contract Idm-E225 (DMEA-1685X) and the results of the exploration were disappointing. The basal sandstone of the Shinarump that was explored on the Simplot claims is the lateral equivalent of the sandstone at the base of Monitor Butte, and can easily be traced from one area to the other. It seems reasonable to expect that the drilling results would be the same in both areas. The only significant difference between the two areas is that the Butte group lacks the copper values commonly found in the Simplot area.

No significant uranium mineralization has been found in the relatively thick and uniform blanket-type Moss Back formation although it has been intensively prospected in the subject area. The lack of usable guides to ore on the Fossil and Lizard group make the proposed drilling a prospecting venture. Therefore, it is recommended that the application for assistance be denied.

Commodity Members' Comments: (Excerpts)

USBM, J. E. Crawford, May 21, 1956:

Mr. Crawford concurs in the Field Team's recommendation that the subject application be denied because no evidence of Shinarump channeling or uranium mineralization was found on the property by the field examiners.

USGS, N. E. Nelson, June 1, 1956:

Mr. Nelson agrees with the field examiners conclusions and concurs in denial of the application.

Rare & Miscellaneous Metals Div., F. M. Murphy, June 1, 1956:

Judging from the field examiners report the potential ore-bearing sandstone and conglomerate underlying the subject area has similar characteristics to the equivalent formation underlying the Simplot claims which were explored with disappointing results under Contract Idm-E225, Docket No. DMEA-1685X.

On the subject area and the Simplot claims, structure contours at the Moss Back (Shinarump on the Simplot claims) - Moenkopi contact show no particular scouring or channeling, suggesting that the potential ore-bearing sandstone and conglomerate were probably deposited in a broad shallow basin, where no traps were present to assist in concentrating mineralizing solutions. Intense prospecting and drilling in similar blanket-type formations over an extensive area has not resulted in the discovery of a commerical uranium-ore deposit.

Therefore, this Division concurs in the field examiners' and Field Team's recommendation to deny the subject application.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

6-4-56

IN REPLY REFER TO:

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

RECEIVED
JUN - 4 1956

June 1, 1956

Re: DMEA 3902
Gunsite Butte Uranium
Corporation
Butte, Lizard and Fossil groups
Garfield Co., Utah
Uranium

Memorandum

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

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

Subject: Review of Field Team report

The applicant requested assistance in exploring by core and noncore drilling three groups of claims.

Except for considerable work on an access road, little work had been done on the claims. Surface stripping and bulldozing was done on Claim No. 4 of the Butte group, where a mineralized outcrop occurs.

The examiners found the mineralized material to be confined to a sandstone lens at the base of the Monitor Butte member. The sandstone is carbonaceous and the carbonized logs and plant fragments showed radioactivity indicating a grade of 0.04 to 0.05% eV_3O_8 No uranium, vanadium or copper minerals are visible on the outcrop.

On the Fossil and Lizard groups only one spot of mineralization in the Moss Back member of the Chinle formation is known. The Moss Back in the area is characteristically barren throughout many miles of outcrop, and although intensively prospected, has been productive of little ore grade material. "The lack of usable guides to ore on the group makes the drilling on the Fossil and Lizard group a prospecting venture". Geologist Report.

The examiners and the Field Team unite in recommending denial of the application. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

June 1, 1956

Re: DMA 3912
Consite Butte Uranium
Corporation
Butte, Lizard and Fossil groups
Garfield Co., Utah
Uranium

Memorandum

To: [illegible] Ellis, Defense Minerals Exploration Administration

From: W. [illegible] Nelson, U. S. Geological Survey

Subject: Review of Field Team report

The applicant requested assistance in exploring by core and nonpore drilling three groups of claims.

Except for considerable work on an access road, little work had been done on the claims. Surface stripping and bulldozing was done on Claim No. 4 of the Butte group, where a mineralized outcrop occurs.

The examiners found the mineralized material to be confined to a sandstone lens at the base of the Monitor Butte member. The sandstone is carbonaceous and the carbonized logs and plant fragments showed radioactivity indicating a grade of 0.04 to 0.05% U_3O_8. No uranium, vanadium or copper minerals are visible on the outcrop.

In the Fossil and Lizard groups only one spot of mineralization in the Moss Back member of the Chinle formation is known. The Moss Back in the area is characteristically barren throughout many miles of outcrop, and although intensively prospected, has been productive of little ore grade material. "The lack of usable guides to ore on the grade makes the drilling on the Fossil and Lizard group a prospecting venture" (Geologist report.

The examiners and the Field Team unite in recommending denial of the application. I concur with the recommendation.

W. E. Nelson

W. E. Nelson

WENelson:btr
C 6/1/56

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

IN REPLY REFER TO:

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

RECEIVED
JUN - 4 1956

June 1, 1956

re: DMA 3912
Cumsite Butte Uranium
Corporation
Butte, Lizard and Fossil groups
Garfield Co., Utah
Uranium

Memorandum

To: [illegible] Ellis, Defense Minerals Exploration Administration

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

Subject: Review of Field Team report

The applicant requested assistance in exploring by core and reverse drilling three groups of claims.

Except for considerable work on an access road, little work had been done on the claims. Surface stripping and bulldozing was done on Claim No. 4 of the Butte group, where a mineralized outcrop occurs.

The examiners found the mineralized material to be confined to a sandstone lens at the base of the Monitor Butte member. The sandstone is carbonaceous and the carbonized logs and plant fragments showed radioactivity indicating a grade of 0.04 to 0.05 eU3O8. No uranium, vanadium or copper minerals are visible on the outcrop.

On the Fossil and Lizard groups only one spot of mineralization in the Moss Back member of the Chinle formation is known. The Moss Back in the area is characteristically barren throughout many miles of outcrop, and although intensively prospected, has been productive of little ore grade material. "The lack of usable guides to ore on the group makes the drilling on the Fossil and Lizard group a prospecting venture" Geologist report.

The examiners and the Field Team unite in recommending denial of the application. I concur with the recommendation.

M. E. Nelson

MENelson:btr
G 6/1/56

M. E. Nelson

cc: J. R. Crawford, Jr. 3641
J. O. Hosted, Jr. 3210
Director's reading file (4212)
Branch reading
DMA (3) ✓
Chron. file
Docket file

IN REPLY REFER TO:

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

RECEIVED
JUN - 4 1956

June 1, 1956

Re: DMEA 3902
Gunsite Butte Uranium Corporation
Butte, Lizard and Fossil groups
Garfield Co., Utah
Uranium

Memorandum

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

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

Subject: Review of Field Team report

The applicant requested assistance in exploring by core and noncore drilling three groups of claims.

Except for considerable work on an access road, little work had been done on the claims. Surface stripping and bulldozing was done on Claim No. 4 of the Butte group, where a mineralized outcrop occurs.

The examiners found the mineralized material to be confined to a sandstone lens at the base of the Monitor Butte member. The sandstone is carbonaceous and the carbonized logs and plant fragments showed radioactivity indicating a grade of 0.04 to 0.05% eV_3O_8 No uranium, vanadium or copper minerals are visible on the outcrop.

On the Fossil and Lizard groups only one spot of mineralization in the Moss Back member of the Chinle formation is known. The Moss Back in the area is characteristically barren throughout many miles of outcrop, and although intensively prospected, has been productive of little ore grade material. "The lack of usable guides to ore on the group makes the drilling on the Fossil and Lizard group a prospecting venture". Geologist Report.

The examiners and the Field Team unite in recommending denial of the application. I concur with the recommendation.

NENelson:btr
G 6/1/56

N. E. Nelson

N. E. Nelson

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

5-22-56

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

RECEIVED
MAY 22 1956

May 21, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Docket 3902, Gunsite Butte Uranium Corporation (Butte, Lizard, and Fossil groups) Garfield County, Utah

I have reviewed the report of examination, DMEA Docket 3902, Gunsite Butte Uranium Corporation (Butte, Lizard, and Fossil groups), Garfield County, Utah, dated May 11, 1956, and received in this office May 17. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The field examiners found no known uranium mineralization of consequence on either the Butte, Lizard, or Fossil groups of claims. Extensive reconnaissance of the Shinarump-Moenkopi contact on the subject property disclosed no evidence of mineralization and no evidence of channeling. The examiners recommend that the application be denied.

We concur in the recommendation.

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

John E Crawford
John E. Crawford

RECEIVED
MAY 2 8 1956

May 21, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Docket 3982, Gunnite Butte Uranium Corporation (Butte, Lizard, and Fossil groups) Garfield County, Utah

I have reviewed the report of examination, DMEA Docket 3982, Gunnite Butte Uranium Corporation (Butte, Lizard, and Fossil groups), Garfield County, Utah, dated May 11, 1956, and received in this office May 17. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The field examiners found no known uranium mineralization of consequence on either the Butte, Lizard, or Fossil groups of claims. Extensive reconnaissance of the Shinarump-Moenkopi contact on the subject property disclosed no evidence of mineralization and no evidence of shinneling. The examiners recommend that the application be denied.

We concur in the recommendation.

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

John E. Crawford

RECEIVED
MAY 22 1956

May 21, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Docket 3902, Gunsite Butte Uranium Corporation (Butte, Lizard, and Fossil groups) Garfield County, Utah

I have reviewed the report of examination, DMEA Docket 3902, Gunsite Butte Uranium Corporation (Butte, Lizard, and Fossil groups), Garfield County, Utah, dated May 11, 1956, and received in this office May 17. I have also discussed it with Joseph O. Nested, Washington representative of the Atomic Energy Commission.

The field examiners found no known uranium mineralization of consequence on either the Butte, Lizard, or Fossil groups of claims. Extensive reconnaissance of the Shinarump-Moenkopi contact on the subject property disclosed no evidence of mineralization and no evidence of channeling. The examiners recommend that the application be denied.

We concur in the recommendation.

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

John K. Crawford

700

FILE COPY
Surname:
Murphy
Murphy

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

JUN - 1 1956

Mr. L. J. Fyans, General Manager
Gunsite Butte Uranium Corporation
26 West Broadway
Salt Lake City, Utah

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizzard, and Fossil groups
Garfield County, Utah

Dear Mr. Fyans:

This is in response to your letter of May 29, 1956, regarding the status of the above-docketed application.

The Field Team's report on the captioned groups of claims has been received here in Washington. Within ten days we expect to advise you in regard to the final decision made by this Agency on your application.

Sincerely yours,

SIGNED

Kenneth Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/izm 6-1-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.S.

5/31/56

MINING URANIUM OIL EXPLORATION GAS

GUNSITE BUTTE URANIUM CORPORATION

26 WEST BROADWAY
SALT LAKE CITY, UTAH

May 29, 1956

RECEIVED
MAY 31 1956

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

Att'n: Mr. Ellis, Chief, Rare and Miscellaneous Metals Division

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizard and Fossil groups
Garfield County, Utah

Dear Sir:

On March 6, 1956, an engineer from the United States Bureau of Mines and an engineer from the United States Geological Survey inspected our property relative to our DMEA loan application. I understood at the time that some decision would probably be made in from six to eight weeks from that time.

We are anxious to do some work on this property and would appreciate it if we could have an indication of the status of our loan application, either as to the time that it will be acted upon or, if possible, whether it will be approved or not.

Any information you could give us would be most helpful.

Very truly yours,

GUNSITE BUTTE URANIUM CORPORATION

L. J. Fyans, General Manager

LJF:dm

5-21-56

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

RECEIVED MAY 14 1956

May 11, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Report of Examination, DMEA Docket 3902 (Uranium) Gunsite Butte Uranium Corporation (Butte, Lizard and Fossil groups) Garfield County, Utah

Enclosed are the original and three copies of an engineering and geologic report of examination on the subject property.

The field examiners found that this general area has been prospected for uranium ores since 1951 and no significant ore bodies have been discovered as a result of this work. Lack of channeling is conspicuous in the area. They conclude that these claims are unfavorable and mineralized outcrops are too weak to indicate that a significant ore deposit might be found by the proposed exploration.

They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
5-18-56
(date)

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

RECEIVED
MAY 14 1956
DMEA
Date Rec'd.

TRANSMITTED
MAY 11 1956

APR 19 1956
BUREAU OF MINES
Denver, Colorado

April 17, 1956

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3902 (Uranium), Gunsite Butte Uranium Corp., (Butte, Lizard and Fossil groups,) Garfield County, Utah

Enclosed are the original and 10 copies of an engineering report covering examination of the property of Gunsite Butte Uranium Corp., Garfield County, Utah. The report was prepared by W. E. Young as a result of examination made March 6, 1956. Our copy of the brochure was mailed to J. W. Hasler for his use in preparing a geologic report.

The applicant originally requested a loan of $41,800 for access-road building, drill-site preparation, rim stripping, and 10,000 feet of noncore drilling. A revised program was later submitted increasing the amount of work requested and raising the estimated cost to $83,760.30.

The company controls a total of 60 lode claims in three groups. The claims lie in a remote area between Coldwater Canyon and the south fork of Hatch Canyon. Rocks exposed in the area consist of the Triassic Wingate sandstone, Chinle shale and Shinarump conglomerate. Uranium mineralization in the area is found in the basal part of the Shinarump conglomerate. The general area surrounding the applicant's claims has been prospected for uranium ores since 1951. No significant ore bodies have been discovered as a result of this work. Lack of channeling is conspicuous in the area. There no channels in the rims adjacent to the claims.

The examining engineer recommends that the request for DMEA assistance on the property of Gunsite Butte Uranium Corp. be denied. Work accomplished in the area and lack of significant channeling indicate that the proposed exploration will not uncover uranium deposits of importance. I am in accord with the recommendations made by the examining engineer.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. F. Shaw
J. B. Clemmer

Reviewed by
DMEA OPERATING COMMITTEE
5-18-56
(date)

RECEIVED
MAY 14 1956

GUNSITE BUTTE URANIUM CORP.
BUTTE, LIZARD AND FOSSIL GROUPS
GARFIELD COUNTY, UTAH
DMEA-3902
Uranium

TRANSMITTED
MAY 1 1 1956

Engineering Report

By W. E. Young
Mining Engineer
Bureau of Mines

Reviewed by
DMEA CLEARANCE COMMITTEE
5-18-56
(date)

GUNSITE BUTTE URANIUM CORP.
BUTTE, LIZARD AND FOSSIL GROUPS
GARFIELD COUNTY, UTAH

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Location, topography and physical features	3
Ownership, history and production	4
General geology	5
Proposed exploration	6
Project costs	7
Conclusions and recommendations	8

ILLUSTRATIONS

Fig. 1 Location map, Gunsite Butte Uranium Corp., Garfield County, Utah
Fig. 2 Claim map, Butte group
Fig. 3 Claim map, Lizard and Fossil groups

SUMMARY

The Butte, Lizard and Fossil groups of claims of the Gunsite Butte Uranium Corp. cover an outcrop of Shinarump conglomerate in the Sunset Pass area, Garfield County, Utah. The company has completed 7 miles of access road along the Shinarump rim, making a large area accessible to prospecting. It is proposed that an extensive drilling project, to explore for uranium ores, be conducted on the properties. The program consists essentially of drilling on 200-foot centers along the road, back of the rim. Any drill holes that encounter ore are to be offset on 50-foot centers to delineate the occurrence.

The area is characterized by expansive exposures of Shinarump rim. The Shinarump-Moenkopi contact is well exposed in most of the area. There are no known occurrences of uranium mineralization along this contact and no channeling in the Shinarump is exposed.

The chances of discovering uranium ore in concentrations of economic interest are considered poor. It is recommended that the loan be denied.

INTRODUCTION

The property of the Gunsite Butte Uranium Corp., docket No. DMEA 3902, was examined March 6, 1956, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. The examination was made at the request of the Regional Field Team to determine the advisability of granting a Government assistance loan. Claude Lacey, vice president of the company, accompanied the examining personnel over the property.

The original application, made in July 1955, requested a loan of $41,800 for access-road building, drill-site preparation, rim stripping, and 10,000 feet of noncore drilling. Additional information was requested from the applicant by the Washington Office, DMEA. A revised estimate was submitted, increasing the amount of work requested and increasing the cost to $83,760.30.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The claims which the applicant proposes to explore lie in the Sunset Pass area, between Coldwater Canyon and the South Fork of Hatch Canyon. No land survey has been made in this remote area; thus no definite location relative to land division lines can be made. The area is bounded on the west by the Dirty Devil River and on the south and east by Cataract Canyon of the Colorado River (fig. 1). Access by road is from Green River, Utah, via improved road to Temple Junction on Utah Highway 24. A dirt road is traveled from here to Land's End, a distance of 55 miles. The property is reached over bulldozer trail from Land's End, a distance of about 10 miles. A good landing strip has been constructed near the property. Plane transportation to and from the area is frequently utilized.

The topography is typical of the Colorado Plateau, exhibiting deep, vertical-walled canyons cutting relatively flat mesas. The dominant features are the high walls formed by the Wingate sandstone, the slopes and mesas formed in Chinle shale, and the vertical-walled Shinarump conglomerate.

OWNERSHIP, HISTORY AND PRODUCTION

The Gunsite Butte Uranium Corp. holds 60 claims in the area by right of location (figs. 2 and 3). The claims are divided into three groups, and are listed as follows:

1. Butte Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County Recorder, book 37, pages 476 to 495, and book 51, pages 184 to 203, inclusive (fig. 2).

2. Lizard Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County Recorder, book 38, pages 1 to 20, and book 51, pages 144 to 163, inclusive (fig. 3).

3. Fossil Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County Recorder, book 38, pages 21 to 40, and book 51, pages 164 to 183, inclusive.

The ownership of the claims rests wholly with the Gunsite Butte Uranium Corp. A copy of a quit-claim deed covering transfer of the claims accompanies the application.

Exploratory work completed to date consists of construction of an access road across the length of the claim groups. No production has been recorded from the property.

Leslie J. Fyans, 311 E. 4800 South Street, Murray, Utah, is president of the company.

GENERAL GEOLOGY

The rocks exposed in the claim area are Triassic Wingate sandstone, Chinle shales and Shinarump conglomerate. In this area only the basal part of the Shinarump formation is known to contain significant concentrations of uranium mineralization, although small occurrences have been noted in the overlying Chinle. The Shinarump varies from 60 to 130 feet in thickness and is principally composed of fine-grained sandstone. In some places the basal part is composed of interfingering lenses of coarse conglomerate, fine sandstone and gray-to-green mudstone. Considerable pyrite is present in some of the sandstone lenses, and carbonaceous material is present nearly continuously in the basal beddings. The chief uranium mineral is torbernite, which occurs at the base of the formation, usually in association with malachite.

The area is characterized by regularity of the contact between the Shinarump and Moenkopi. The lack of channeling is conspicuous. The occurrence of one channel was noted on property adjacent to the Butte claims. No channeling was noted in any of the rims adjacent to the claims.

The general area has been actively prospected for uranium since 1951. No minable ore bodies have been discovered as a result of this work. There have been no significant shipments of ore made from the area.

PROPOSED EXPLORATION

The applicant has constructed an access road for a distance of approximately 7 miles on the Shinarump rim. The road passes along the length of two groups of claims belonging to the applicant, covering approximately 17,000 feet on each group. Although the road is located a considerable distance behind the rim in most places, it is seldom more than a few feet above the Shinarump-Chinle contact. The applicant has requested funds for an exploratory program to drill along the road at 200-foot intervals. The estimated average depth of the holes is 175 feet on the Butte group and 150 feet on the Lizard and Fossil groups. The proposed work is divided into two stages. The purpose of the primary stage is to discover mineralization. A total of 170 holes is proposed for this stage, involving an estimated footage of 27,525 feet. The secondary drilling stage is to investigate further, by closer spacing of drill holes, any mineralization found. A total of 50 holes is proposed for this stage, involving an estimated 8,000 feet of drilling. Stage II is to be contingent upon the success of Stage I. A total of 220 holes is requested, with an estimated total of 35,525 feet of drilling.

The time necessary to complete the project is estimated at 3 months. Two contract drill rigs will be used. The applicant proposes rotary-type drills, using air instead of water to remove cuttings. Work will start within 30 days after the date of the contract.

PROJECT COSTS

No contract bids for drilling were submitted with the application. The costs submitted are based on the applicant's estimate. These are considered lower than contract costs for similar work in the area. Other estimated costs are considered excessive. No bulldozer work will be required for Stage I.

Independent Contracts

Drilling

Stage I - 170 holes, average depth 162 feet

Noncore - 27,525 feet at $2.50 per foot --- $68,812.50

Stage II - 50 holes, average depth 160 feet

Noncore - 6,750 feet at $2.50 per foot --- 16,875.00
Core - 1,250 feet at $4.00 per foot --- 5,000.00

Total drilling, 220 holes, 35,525 feet ---------- $90,687.50

Bulldozer work

Roads - 75 hours at $13 per hour ---------- $ 975.00
Construction of drill sites, 12.5 hours -------- 325.00
at $13 per hour
Drayage ---------- 300.00

Total bulldozer work, 25.5 hours ---------- $ 1,600.00

Total independent contracts ---------- $92,287.50

Labor and Supervision

1 Engineer at $600 per month - 3 months ---------- $ 1,800.00
1 Geologist at $600 per month - 3 months ---------- 1,800.00
1 Accountant, 2 man-days per month - $20 per day ---- 120.00

Total labor and supervision ---------- $ 3,720.00

Material and Supplies

25 Wood core boxes at $2.50 each ----------	$ 62.50	
100 Cloth sample bags at $0.40 each ----------	40.00	
Total material and supplies ----------		$ 102.50

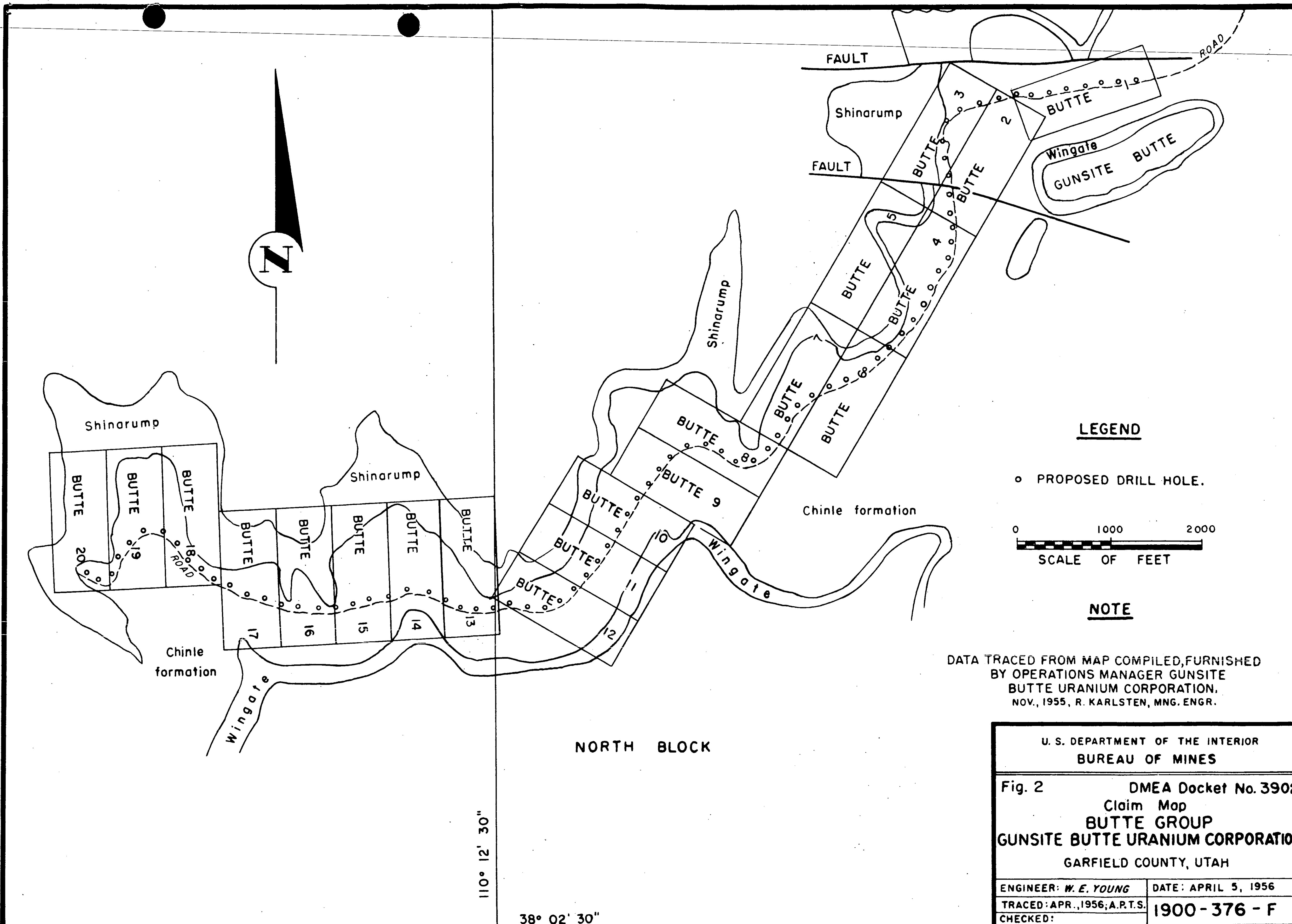
Miscellaneous

Sampling and analysis - 125 samples at $3.50 each --------	$ 437.50
Grand total ----------	$96,547.50

The total cost of the work requested by the applicant is estimated at $96,547.50

CONCLUSIONS AND RECOMMENDATIONS

No known uranium mineralization of consequence is exposed on either the Butte, Lizard or Fossil groups of claims. The applicant has completed a large access-road project to make the area accessible, but has failed to find any worthwhile mineralized outcrops. It is reported that an extensive reconnaissance of the Shinarump-Moenkopi contact disclosed no evidence of mineralization and no evidence of channeling. It is recommended the application for loan be denied.



LEGEND

o PROPOSED DRILL HOLE.

0 1000 2000
SCALE OF FEET

NOTE

DATA TRACED FROM MAP COMPILED, FURNISHED BY OPERATIONS MANAGER GUNSITE BUTTE URANIUM CORPORATION.
NOV., 1955, R. KARLSTEN, MNG. ENGR.

U. S. DEPARTMENT OF THE INTERIOR BUREAU OF MINES	
Fig. 2 DMEA Docket No. 3902 Claim Map BUTTE GROUP GUNSITE BUTTE URANIUM CORPORATION GARFIELD COUNTY, UTAH	
ENGINEER: *W. E. YOUNG*	DATE: APRIL 5, 1956
TRACED: APR., 1956; A.P.T.S. CHECKED:	1900 - 376 - F

MINERAL DEPOSITS
DMEA
RECEIVED
MAY 3 1956
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

IN REPLY REFER TO:

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

RECEIVED
MAY 14 1956

TRANSMITTED
MAY 11 1956

DMEA
Date Rec'd.
MAY 10 1956
BUREAU OF MINES
Denver, Colorado

May 2, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: F. M. Byers, Jr.,
For J. William Hasler

Subject: DMEA docket 3902 (Uranium), Gunsite Butte Uranium Corporation, (Butte group and Fossil and Lizard groups), Garfield County, Utah

Transmitted herewith is a geologic report on the subject property, by H. B. Dyer, U. S. Geological Survey.

The Gunsite Butte Uranium Corporation, 26 W. Broadway, Salt Lake City, Utah, has applied for DMEA assistance on the Butte group and Fossil and Lizard groups of claims in Garfield County, Utah. The properties were examined on March 6, 1956, by W. E. Young, U. S. Bureau of Mines, and H. B. Dyer, U. S. Geological Survey. H. B. Wood of the Atomic Energy Commission was consulted concerning the property.

The Butte group lies just southwest of Gunsite Butte, and the Fossil and Lizard groups are 2 to 14 miles northeast of Gunsite Butte, about 60 miles south of Green River, Utah, in the middle of the Utah desert. The claims are 110 miles from Green River by road, including 75 miles of unimproved dirt roads.

The Butte property is within a few miles of the Simplot property, which failed to find ore under a DMEA drilling program, docket 1685X. The DMEA examining geologist concludes that the Triassic host rocks for ore on both the Butte and Fossil-Lizard properties are unfavorable and mineralized outcrops are too weak to indicate that a significant ore deposit might be found by drilling, as proposed by the applicant. The examining geologist recommends that the application for DMEA assistance be denied, and I concur with his recommendation.

Enclosed are the required number of maps and the applicant's brochure.

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

Reviewed by
DMEA OPERATING COMMITTEE

FMB/mlr
Enclosures

(date)

RECEIVED
MAY 14 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED
MAY 11 1956

DMEA 3902

Gunsite Butte Uranium Corporation

Butte Group and Fossil and Lizard Groups

Garfield County, Utah

Uranium

Geologic report

by

H. B. Dyer, Geologist
Geological Survey

May 9, 1956

Reviewed by
DMEA OPERATING COMMITTEE

(date)

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Proposed Exploration..... 7

Conclusions and Recommendations..... 7

ILLUSTRATIONS

Figure — Follows page

1. Index map showing location of Fossil & Lizard, and Butte groups of claims, Gunsite Butte Uranium Corporation, Garfield County, Utah. DMEA 3902..... 1

2. Geologic map showing Butte, and Fossil & Lizard groups of claims, Gunsight Butte Uranium Company, Garfield County, Utah. DMEA 3902..... 8

DMEA 3902

RECEIVED
MAY 14 1956

GUNSITE BUTTE URANIUM CORPORATION
BUTTE GROUP AND FOSSIL AND LIZARD GROUPS
GARFIELD COUNTY, UTAH

INTRODUCTION AND SUMMARY

The Gunsite Butte Uranium Corporation, 26 West Broadway, Salt Lake City, Utah, has applied for DMEA assistance in a uranium exploration project. The property consists of 60 unpatented mining claims located in Garfield County, Utah, about 60 airline miles south of the town of Green River, Utah. (Fig. 1)

The claims were located by James F. Seals of Wellington, Utah, and are recorded in the Garfield County Recorder's office as follows:

Butte Nos. 1-20	Book 37, pages 476-495 Book 51, pages 184-203
Fossil Nos. 1-20	Book 38, pages 21 to 40 Book 51, pages 164 to 183
Lizard Nos. 1-20	Book 38, pages 1-20 Book 51, pages 144-163

A quitclaim deed has been given to the Gunsite Butte Uranium Corporation but the terms of the agreement are not stated.

Access to the claims is difficult and the roads are poor. The claims may be reached by traveling west from Green River, Utah, on U. S. Highway 6 and 50 for 4 miles then southerly on Utah Highway 24 for 30 miles, then southeasterly over unimproved dirt roads for 75 miles. Flash floods and sandstorms may make the area inaccessible for short periods of time.

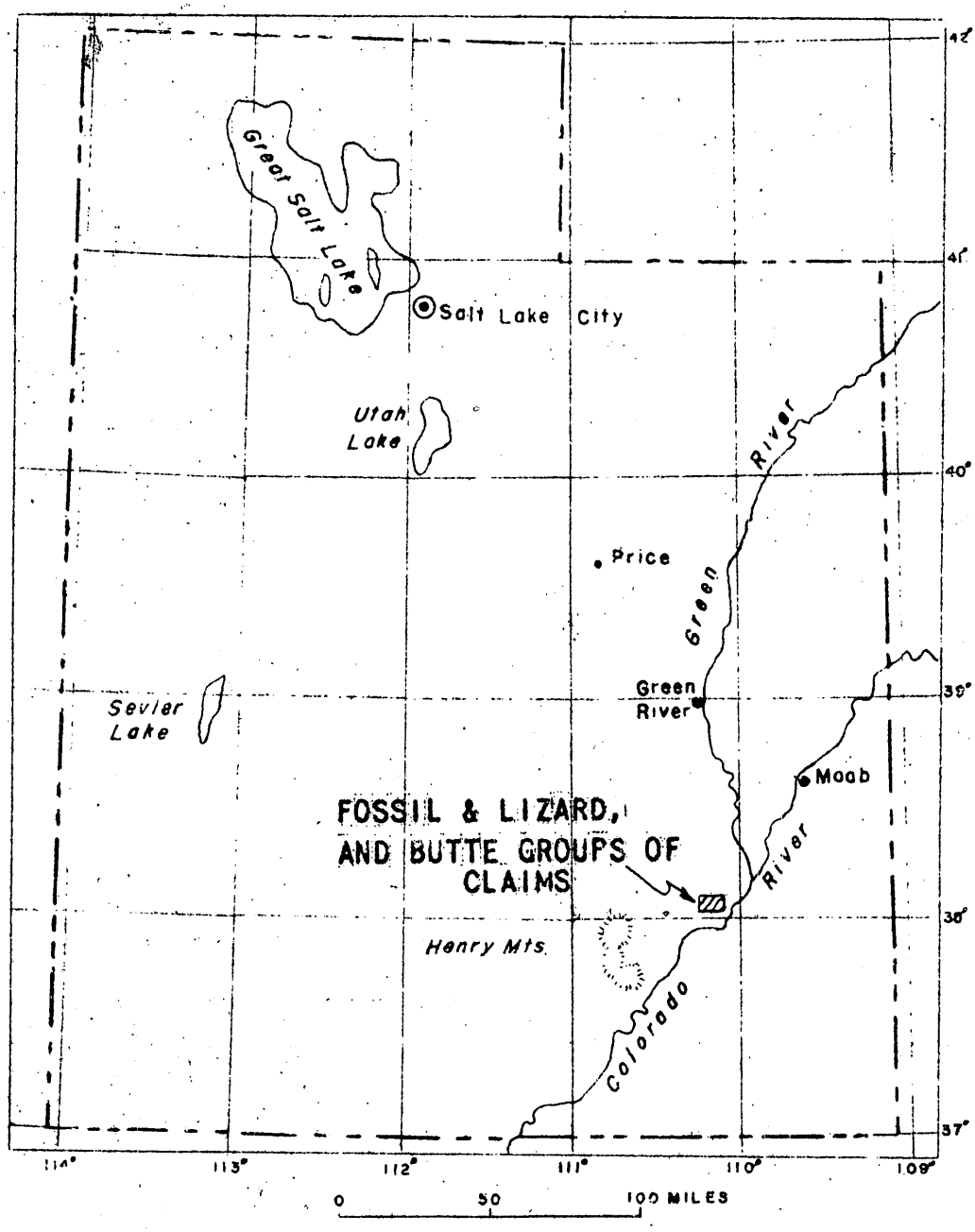

FIGURE 1. INDEX MAP SHOWING LOCATION OF FOSSIL & LIZARD, AND BUTTE GROUPS OF CLAIMS, GUNSITE BUTTE URANIUM CORPORATION, GARFIELD COUNTY, UTAH.

The property was examined on March 6, 1956, by W. E. Young, U. S. Bureau of Mines, and H. B. Dyer, U. S. Geological Survey. Claude Lacy accompanied the examiners on the property and aided in locating the proposed drilling and mineralized outcrops. Frank McKeown, USGS project geologist for the area, made many helpful suggestions and furnished data on the thickness of the stratigraphic units. H. B. Wood of the Atomic Energy Commission was consulted concerning the application.

The applicant originally proposed an indefinite program of rim stripping, drilling, and geological work. A more definite program was later submitted; this program is divided into two phases. The first phase consists of drilling 170 holes on 200-foot centers along the roads on the claims. The second phase consists of 50 offset holes around mineralized first phase holes. The cost of the program is estimated at $83,760.30.

There are two separate groups of claims, the Fossil and Lizard group and the Butte group.

The Butte group of claims lies just southwest from Gunsite Butte. The ore-bearing sandstone is at the base of the Monitor Butte member of the Chinle formation. This same sandstone was explored on the nearby Simplot property under DMEA Docket 1685X, Contract Idm-E 225. The exploration on the Simplot property failed to find significant quantities of uranium ore.

On the Fossil and Lizard group, 2 to 4 miles northeast of Gunsite Butte (fig. 2), the potential ore-bearing host rock is the

Moss Back member of the Chinle formation. On these claims the Moss Back is thick and blanket-like. This type of lithology is unfavorable for the occurrence of significant ore deposits.

Because of the unfavorable nature of the host rock on the Fossil and Lizard group and the poor success of the exploration on the Simplot property in ground similar to the Butte group, it seems unlikely that the applicant's proposed exploration would succeed in finding significant ore bodies in either claim group. Therefore, it is recommended that the applicant's request for DMEA assistance be denied.

GEOLOGY

The claims are located on gently dipping sandstones and mudstones of Triassic and Jurassic age. The rocks dip about 10 degrees to the northwest and are cut by two east-west trending normal faults. Gunsite Butte lies in a small graben (fig. 2).

The oldest formation exposed on the claims is the Moenkopi formation of Triassic age. The Moenkopi formation consists of evenly bedded brown siltstones with a few thin green siltstone beds. The Moenkopi is about 420 feet thick and consists of mudstone, siltstone, and occasional fine sandstone. It weathers to intricately dissected slopes.

The Moenkopi is unconformably overlain by the Triassic Chinle formation which contains the ore zones in this area. Three members of the Chinle formation are exposed on the claims. The oldest member

is the Monitor Butte, which rests on the slightly irregular, eroded upper surface of the Moenkopi formation. The Monitor Butte consists of green mudstones with thin sandstone lenses at the base. The sandstone lenses usually contain carbonized plant fragments. The thickness of the Monitor Butte member ranges from a knife edge to 60 feet; this variation is largely due to erosion after deposition of the member.

The Moss Back member overlies the Monitor Butte member, and the contact between the members is an erosional unconformity. The Moss Back consists of sandstone and conglomeratic sandstone, but thin green mudstone splits are common. The thickness of the Moss Back member ranges between 30 and 90 feet; this variation in thickness is largely due to "channeling" into the underlying beds. The Moss Back member grades upward into the Church Rock member of the Chinle formation.

The Church Rock member consists of 400 feet of red bentonitic shale and siltstone with a few sandy and limy beds. It is a non-resistant rock and forms slopes overlying the ledges formed by the resistant Moss Back member.

The Glen Canyon group of Triassic and Jurassic age conformably overlies the Chinle formation. The Glen Canyon consists of three formations: the Wingate sandstone, the Kayenta formation, and the Navajo sandstone, in ascending order. The lowest formation, the Wingate, forms vertical cliffs and makes access to the claim area difficult. The Kayenta formation overlies the Wingate and forms

broad upland benches. A few isolated outliers of the Navajo sandstone are found as rounded hills rising above the benches of the Kayenta formations.

The Monitor Butte and Moss Back members are the potential "ore horizons" on the claims, and the geology of the members differs between the two groups of claims. On the Butte group of claims, southwest of Gunsite Butte (fig. 2), the Monitor Butte member averages about 60 feet thick and is overlain by 20 to 30 feet of the Moss Back member. On the Fossil and Lizard group of claims northwest of Gunsite Butte (fig. 2), the Monitor Butte member has been removed by pre-Moss Back erosion, and the conglomerates and sandstones of the Moss Back member rest directly on the Moenkopi formation. The Moss Back member forms a relatively thick and uniform blanket on the Fossil and Lizard group of claims and the lower contact has only minor irregularities.

ORE DEPOSITS

Ore deposits of commercial size and grade are unknown in the vicinity of the claims. The nearest occurrence of ore is in Poison Springs Canyon about 15 miles west of the property. None of the three deposits in Poison Springs Canyon is large, and production is insignificant.

Mineralized material on the Butte group of claims is confined to a sandstone lens at the base of the Monitor Butte member. Where this sandstone rim has been stripped just north of the Butte group

(fig. 2), the sandstone is carbonaceous and the carbonized logs and plant fragments have radioactivity indicating a grade of 0.04 to 0.05 percent eU_3O_8. A thin seam of carbonaceous material extends 15 feet along the basal contact and has a similar radioactivity. The sandstone is 5 to 8 feet thick and the upper 5 feet of the Moenkopi formation is bleached. No uranium, vanadium, or copper minerals are visible on the outcrop. On the Butte claims south of the rim-stripped area, the sandstone at the base of the Monitor Butte is discontinuously exposed. Many of the outcrops carry similar radioactivity but minable reserves are unknown.

The potential ore horizon on the Fossil and Lizard group is the Moss Back member of the Chinle formation. The Moss Back lies directly on the Moenkopi formation and the underlying Monitor Butte member has been removed by pre-Moss Back erosion. The Moss Back is a relatively thick and uniform blanket-like layer and lacks features which can be considered usable guides to ore. It is known to be mineralized in only one spot and the mineralization is confined to carbonaceous trash.

The geology of the Butte group is similar to the geology of the Simplot claims a few miles northwest of the Gunsite Butte. The Simplot claims were explored under Contract Idm-E 225,(DMEA Docket 1685X) and the results of the exploration were disappointing. The basal sandstone of the Shinarump that was explored on the Simplot claims is the lateral equivalent of the sandstone at the base of the Monitor Butte, and each can easily be traced from one area to the other. It seems reasonable to expect that the drilling results would be the same in both areas.

Briefly summarized, the results of the Simplot exploration were as follows: Radioactivity anomalies were located in the area, the area was prospected and staked. The prospecting was successful in finding mineralized outcrops with copper minerals on the outcrop. The area was rim-stripped and drilled under DMEA funds, but the exploration did not locate economic ore bodies.

The only significant difference between the two areas is that the Butte group lacks the copper values commonly found in the Simplot area. Because of the failure of the Simplot exploration program, it seems unlikely that exploration of the Butte group would find economic ore bodies.

PROPOSED EXPLORATION

The applicant proposes drilling 170 first phase holes and 50 second phase holes along the roads on the claims. Drilling depths would average between 150 and 175 feet, and the lower 25 feet of the second phase holes would be cored. The applicant estimates the cost of the project at $83,760.30. No alternate program is proposed by the examining team.

CONCLUSIONS AND RECOMMENDATIONS

The geology of the Fossil and Lizard group, northeast of Gunsite Butte, lacks features which would indicate the presence of significant ore deposits. The Moss Back forms a relatively thick and uniform blanket. This type of host rock is characteristically barren throughout

many miles of outcrop, and although intensively prospected, little production has come from areas where the host rock has this character. It is possible that a concealed facies change might represent an area of relatively favorable ground on the claims, but evidence of such a change is lacking.

The lack of usable guides to ore on the group makes the drilling on the Fossil and Lizard group a prospecting venture.

The failure of J. R. Simplot's carefully planned exploration under Contract Idm-E 225 and the lack of usable guides to ore make it seem unlikely that the proposed exploration would find significant ore bodies. Therefore, it is recommended that the application for assistance (DMEA Docket 3902) be denied.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
MARCH 1956 DOCKET 3902

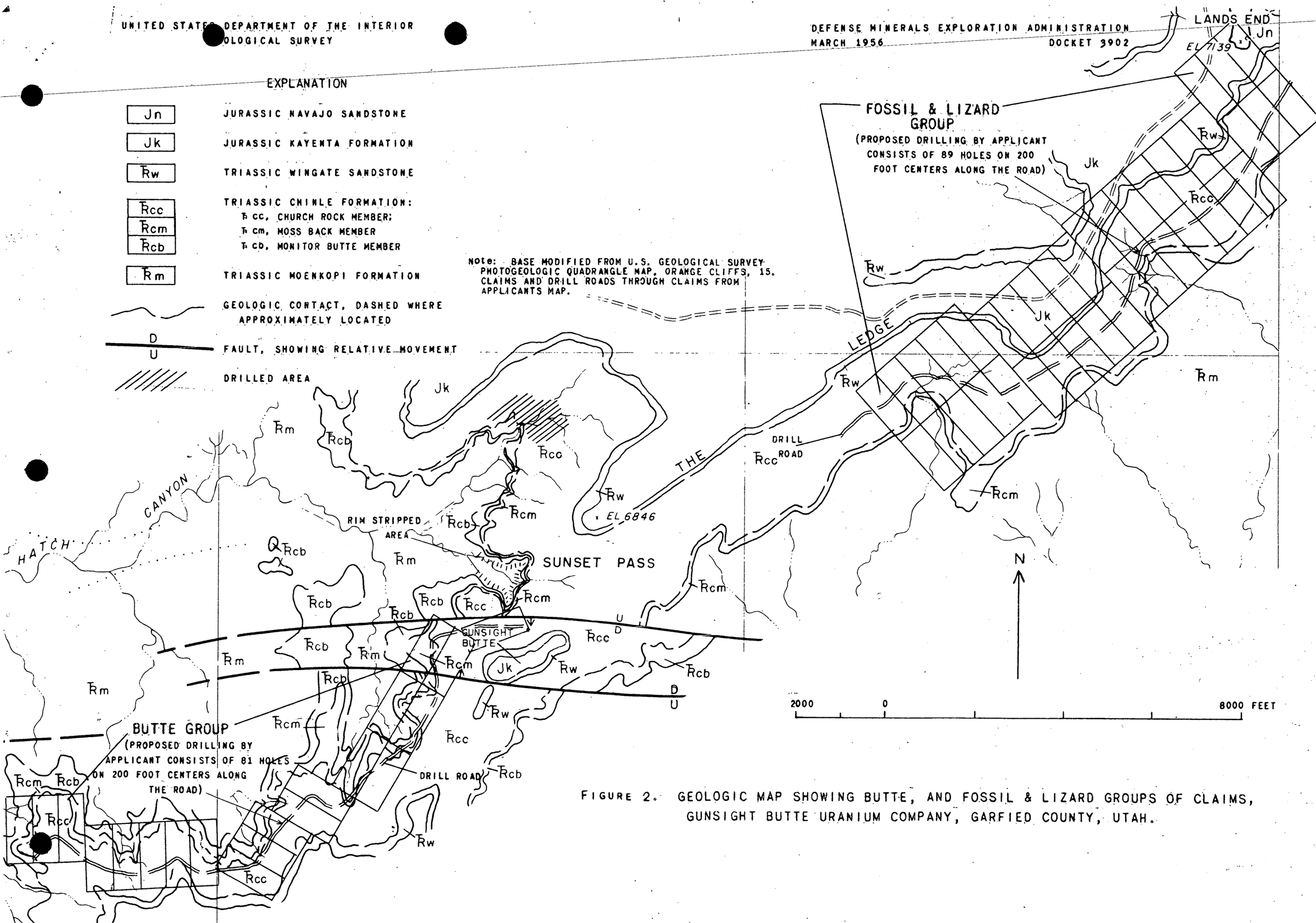

FIGURE 2. GEOLOGIC MAP SHOWING BUTTE, AND FOSSIL & LIZARD GROUPS OF CLAIMS, GUNSIGHT BUTTE URANIUM COMPANY, GARFIED COUNTY, UTAH.

5/15/56

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

RECEIVED MAY 14 1956

May 11, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Report of Examination, DMEA Docket 3902 (Uranium) Gunsite Butte Uranium Corporation (Butte, Lizard and Fossil groups) Garfield County, Utah

Enclosed are the original and three copies of an engineering and geologic report of examination on the subject property.

The field examiners found that this general area has been prospected for uranium ores since 1951 and no significant ore bodies have been discovered as a result of this work. Lack of channeling is conspicuous in the area. They conclude that these claims are unfavorable and mineralized outcrops are too weak to indicate that a significant ore deposit might be found by the proposed exploration.

They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
5-18-56
(date)

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DENVER, COLORADO
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MAY 10 1956
BUREAU OF MINES
Denver, Colorado

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

TRANSMITTED
MAY 11 1956

May 2, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: F. M. Byers, Jr.,
For J. William Hasler

Subject: DMEA docket 3902 (Uranium), Gunsite Butte Uranium Corporation, (Butte group and Fossil and Lizard groups), Garfield County, Utah

Transmitted herewith is a geologic report on the subject property, by H. B. Dyer, U. S. Geological Survey.

The Gunsite Butte Uranium Corporation, 25 W. Broadway, Salt Lake City, Utah, has applied for DMEA assistance on the Butte group and Fossil and Lizard groups of claims in Garfield County, Utah. The properties were examined on March 5, 1956, by W. E. Young, U. S. Bureau of Mines, and H. B. Dyer, U. S. Geological Survey. H. B. Wood of the Atomic Energy Commission was consulted concerning the property.

The Butte group lies just southwest of Gunsite Butte, and the Fossil and Lizard groups are 2 to 14 miles northeast of Gunsite Butte, about 50 miles south of Green River, Utah, in the middle of the Utah desert. The claims are 110 miles from Green River by road, including 75 miles of unimproved dirt roads.

The Butte property is within a few miles of the Simplot property, which failed to find ore under a DMEA drilling program, docket 1685X. The DMEA examining geologist concludes that the Triassic host rocks for ore on both the Butte and Fossil-Lizard properties are unfavorable and mineralized outcrops are too weak to indicate that a significant ore deposit might be found by drilling, as proposed by the applicant. The examining geologist recommends that the application for DMEA assistance be denied, and I concur with his recommendation.

Enclosed are the required number of maps and the applicant's brochure.

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

Reviewed by
DMEA OPERATING COMMITTEE
5-18-56
(date)

FMB/mlr
Enclosures

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

TRANSMITTED
MAY 11 1956

RECEIVED
DMEA MAY 14 1956
Date Rec'd.

APR 19 1956
BUREAU OF MINES
Denver, Colorado

April 17, 1956

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3008 (Uranium), Gunsite Butte Uranium Corp., Butte, Lizard and Fossil groups, Garfield County, Utah

Enclosed are the original and 10 copies of an engineering report covering examination of the property of Gunsite Butte Uranium Corp., Garfield County, Utah. The report was prepared by W. E. Young as a result of examination made March 6, 1956. Our copy of the brochure was mailed to J. W. Hasler for his use in preparing a geologic report.

The applicant originally requested a loan of $11,300 for access-road building, drill-site preparation, rim stripping, and 10,000 feet of noncore drilling. A revised program was later submitted increasing the amount of work requested and raising the estimated cost to $23,760.30.

The company controls a total of 60 lode claims in three groups. The claims lie in a remote area between Coldwater Canyon and the south fork of Hatch Canyon. Rocks exposed in the area consist of the Triassic Wingate sandstone, Chinle shale and Shinarump conglomerate. Uranium mineralization in the area is found in the basal part of the Shinarump conglomerate. The general area surrounding the applicant's claims has been prospected for uranium ores since 1951. No significant ore bodies have been discovered as a result of this work. Lack of channeling is conspicuous in the area. There no channels in the rims adjacent to the claims.

The examining engineer recommends that the request for DMEA assistance on the property of Gunsite Butte Uranium Corp. be denied. Work accomplished in the area and lack of significant channeling indicate that the proposed exploration will not uncover uranium deposits of importance. I am in accord with the recommendations made by the examining engineer.

Stephen R Wilson
Stephen R. Wilson

Enclosure

cc: J. F. Shaw
J. E. Clemmer

Reviewed by
DMEA OPERATING COMMITTEE
5-18-56
(date)

SUMMIT BUTTE URANIUM CORP.
BUTTE, LIBERD AND MORRIL GROUPS
GARFIELD COUNTY, UTAH
DMEA-[illegible]
Uranium

TRANSMITTED
MAY 1 1 1956

Engineering Report

By W. E. Young
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
5-18-56
(date)

GUNSITE BUTTE URANIUM CORP.
BUTTE, LIZARD AND FOSSIL GROUPS
GARFIELD COUNTY, UTAH

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Ownership, history and production	4
General geology	5
Proposed exploration	6
Project costs	7
Conclusions and recommendations	8

ILLUSTRATIONS

Fig. 1 Location map, Gunsite Butte Uranium Corp., Garfield County, Utah
Fig. 2 Claim map, Butte group
Fig. 3 Claim map, Lizard and Fossil groups

SUMMARY

The Butte, Lizard and Fossil groups of claims of the Gunsite Butte Uranium Corp. cover an outcrop of Shinarump conglomerate in the Sunset Pass area, Garfield County, Utah. The company has completed 7 miles of access road along the Shinarump rim, making a large area accessible to prospecting. It is proposed that an extensive drilling project, to explore for uranium ores, be conducted on the properties. The program consists essentially of drilling on 200-foot centers along the road, back of the rim. Any drill holes that encounter ore are to be offset on 50-foot centers to delineate the occurrence.

The area is characterized by expansive exposures of Shinarump rim. The Shinarump-Moenkopi contact is well exposed in most of the area. There are no known occurrences of uranium mineralization along this contact and no channeling in the Shinarump is exposed.

The chances of discovering uranium ore in concentrations of economic interest are considered poor. It is recommended that the loan be denied.

INTRODUCTION

The property of the Gunsite Butte Uranium Corp., docket No. DMRA 3903, was examined March 6, 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 Regional Field Team to determine the advisability of granting a Government assistance loan. Claude Lacey, vice president of the company, accompanied the examining personnel over the property.

The original application, made in July 1955, requested a loan of $41,000 for access-road building, drill-site preparation, rim stripping, and 10,000 feet of neocore drilling. Additional information was requested from the applicant by the Washington Office, DMEA. A revised estimate was submitted, increasing the amount of work requested and increasing the cost to $88,700.20.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The claims which the applicant proposes to explore lie in the Sunset Pass area, between Coldwater Canyon and the South Fork of Hatch Canyon. No land survey has been made in this remote area; thus no definite location relative to land division lines can be made. The area is bounded on the west by the Dirty Devil River and on the south and east by Cataract Canyon of the Colorado River (fig. 1). Access by road is from Green River, Utah, via improved road to Temple Junction on Utah Highway 24. A dirt road is traveled from here to Land's End, a distance of 85 miles. The property is reached over bulldozer trail from Land's End, a distance of about 10 miles. A good landing strip has been constructed near the property. Plane transportation to and from the area is frequently utilized.

The topography is typical of the Colorado Plateau, exhibiting deep, vertical-walled canyons cutting relatively flat mesas. The dominant features are the high walls formed by the Wingate sandstone, the slopes and mesas formed in Chinle shale, and the vertical-walled Shinarump conglomerate.

OWNERSHIP, HISTORY AND PRODUCTION

The Gunsite Butte Uranium Corp. holds 60 claims in the area by right of location (figs. 2 and 3). The claims are divided into three groups, and are listed as follows:

1. Butte Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County Recorder, book 37, pages 476 to 495, and book 51, pages 184 to 203, inclusive (fig. 2).

2. Lizard Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County Recorder, book 38, pages 1 to 20, and book 51, pages 144 to 163, inclusive (fig. 3).

3. Pencil Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County Recorder, book 38, pages 21 to 40, and book 51, pages 164 to 183, inclusive.

The ownership of the claims rests wholly with the Gunsite Butte Uranium Corp. A copy of a quit-claim deed covering transfer of the claims accompanies the application.

Exploratory work completed to date consists of construction of an access road across the length of the claim groups. No production has been recorded from the property.

Leslie J. Hyans, 311 E. 4800 South Street, Murray, Utah, is president of the company.

GENERAL GEOLOGY

The rocks exposed in the claim area are Triassic Wingate sandstone, Chinle shales and Shinarump conglomerate. In this area only the basal part of the Shinarump formation is known to contain significant concentrations of uranium mineralization, although small occurrences have been noted in the overlying Chinle. The Shinarump varies from 60 to 130 feet in thickness and is principally composed of fine-grained sandstone. In some places the basal part is composed of interfingering lenses of coarse conglomerate, fine sandstone and gray-to-green mudstone. Considerable pyrite is present in some of the sandstone lenses, and carbonaceous material is present nearly continuously in the basal beddings. The chief uranium mineral is torbernite, which occurs at the base of the formation, usually in association with malachite.

The area is characterized by regularity of the contact between the Shinarump and Moenkopi. The lack of channeling is conspicuous. The occurrence of one channel was noted on property adjacent to the Butte claims. No channeling was noted in any of the rims adjacent to the claims.

The general area has been actively prospected for uranium since 1951. No minable ore bodies have been discovered as a result of this work. There have been no significant shipments of ore made from the area.

PROPOSED EXPLORATION

The applicant has constructed an access road for a distance of approximately 7 miles on the Shinarump rim. The road passes along the length of two groups of claims belonging to the applicant, covering approximately 17,000 feet on each group. Although the road is located a considerable distance behind the rim in most places, it is seldom more than a few feet above the Shinarump-Chinle contact. The applicant has requested funds for an exploratory program to drill along the road at 200-foot intervals. The estimated average depth of the holes is 175 feet on the Butte group and 150 feet on the Lizard and Fossil groups. The proposed work is divided into two stages. The purpose of the primary stage is to discover mineralization. A total of 170 holes is proposed for this stage, involving an estimated footage of 27,525 feet. The secondary drilling stage is to investigate further, by closer spacing of drill holes, any mineralization found. A total of 50 holes is proposed for this stage, involving an estimated 8,000 feet of drilling. Stage II is to be contingent upon the success of Stage I. A total of 220 holes is requested, with an estimated total of 35,525 feet of drilling.

The time necessary to complete the project is estimated at 2 months. Two contract drill rigs will be used. The applicant proposes rotary-type drills, using air instead of water to remove cuttings. Work will start within 30 days after the date of the contract.

PROJECT COSTS

No contract bids for drilling were submitted with the application. The costs submitted are based on the applicant's estimate. These are considered lower than contract costs for similar work in the area. Other estimated costs are considered excessive. No bulldozer work will be required for Stage I.

Independent Contracts

Drilling

Stage I - 170 holes, average depth 162 feet

Noncore - 27,525 feet at $2.50 per foot --- $68,812.50

Stage II - 50 holes, average depth 180 feet

Noncore - 6,750 feet at $2.50 per foot --- 16,875.00
Core - 1,250 feet at $4.00 per foot --- 5,000.00

Total drilling, 220 holes, 35,525 feet ---------- $90,687.50

Bulldozer work

Roads - 75 hours at $13 per hour ---------- $ 975.00
Construction of drill sites, 12.5 hours at $12 per hour --------- 125.00
Drayage ---------- 300.00

Total bulldozer work, 25.5 hours ---------- $ 1,400.00

Total independent contracts ---------- $92,287.50

Labor and Supervision

1 Engineer at $600 per month - 3 months ---------- $ 1,800.00
1 Geologist at $600 per month - 3 months ---------- 1,800.00
1 Accountant, 2 man-days per month - $20 per day ---- 120.00

Total labor and supervision ---------- $ 3,720.00

Material and Supplies

25 Wood core boxes at $2.50 each	$ 62.50	
100 Cloth sample bags at $0.40 each	40.00	
Total material and supplies		$ 102.50

Miscellaneous

Sampling and analysis - 125 samples at $3.50 each	$ 437.50
Grand total	$96,547.50

The total cost of the work requested by the applicant is estimated at $96,547.50

CONCLUSIONS AND RECOMMENDATIONS

No known uranium mineralization of consequence is exposed on either the Ruth, Lizard or Fossil groups of claims. The applicant has completed a large access-road project to make the area accessible, but has failed to find any worthwhile mineralized outcrops. It is reported that an extensive reconnaissance of the Shinarump-Moenkopi contact disclosed no evidence of mineralization and no evidence of channeling. It is recommended the application for lease be denied.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

RECEIVED
MAY 14 1956

TRANSMITTED
MAY 11 1956

DMEA 3902

Gunsite Butte Uranium Corporation

Butte Group and Fossil and Lizard Groups

Garfield County, Utah

Uranium

Geologic report

by

H. B. Dyer, Geologist
Geological Survey

May 9, 1956

Reviewed by
DMEA OPERATING COMMITTEE
5-18-56
(date)

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DMEA 3902

RECEIVED
MAY 14 1953

GUNSITE BUTTE URANIUM CORPORATION
BUTTE GROUP AND FOSSIL AND LIZARD GROUPS
GARFIELD COUNTY, UTAH

INTRODUCTION AND SUMMARY

The Gunsite Butte Uranium Corporation, 26 West Broadway, Salt Lake City, Utah, has applied for DMEA assistance in a uranium exploration project. The property consists of 60 unpatented mining claims located in Garfield County, Utah, about 60 airline miles south of the town of Green River, Utah. (Fig. 1)

The claims were located by James F. Seals of Wellington, Utah, and are recorded in the Garfield County Recorder's office as follows:

Butte Nos. 1-20	Book 37, pages 476-495 Book 51, pages 184-203
Fossil Nos. 1-20	Book 38, pages 21 to 40 Book 51, pages 164 to 183
Lizard Nos. 1-20	Book 38, pages 1-20 Book 51, pages 144-163

A quitclaim deed has been given to the Gunsite Butte Uranium Corporation but the terms of the agreement are not stated.

Access to the claims is difficult and the roads are poor. The claims may be reached by traveling west from Green River, Utah, on U. S. Highway 6 and 50 for 4 miles then southerly on Utah Highway 24 for 30 miles, then southeasterly over unimproved dirt roads for 75 miles. Flash floods and sandstorms may make the area inaccessible for short periods of time.

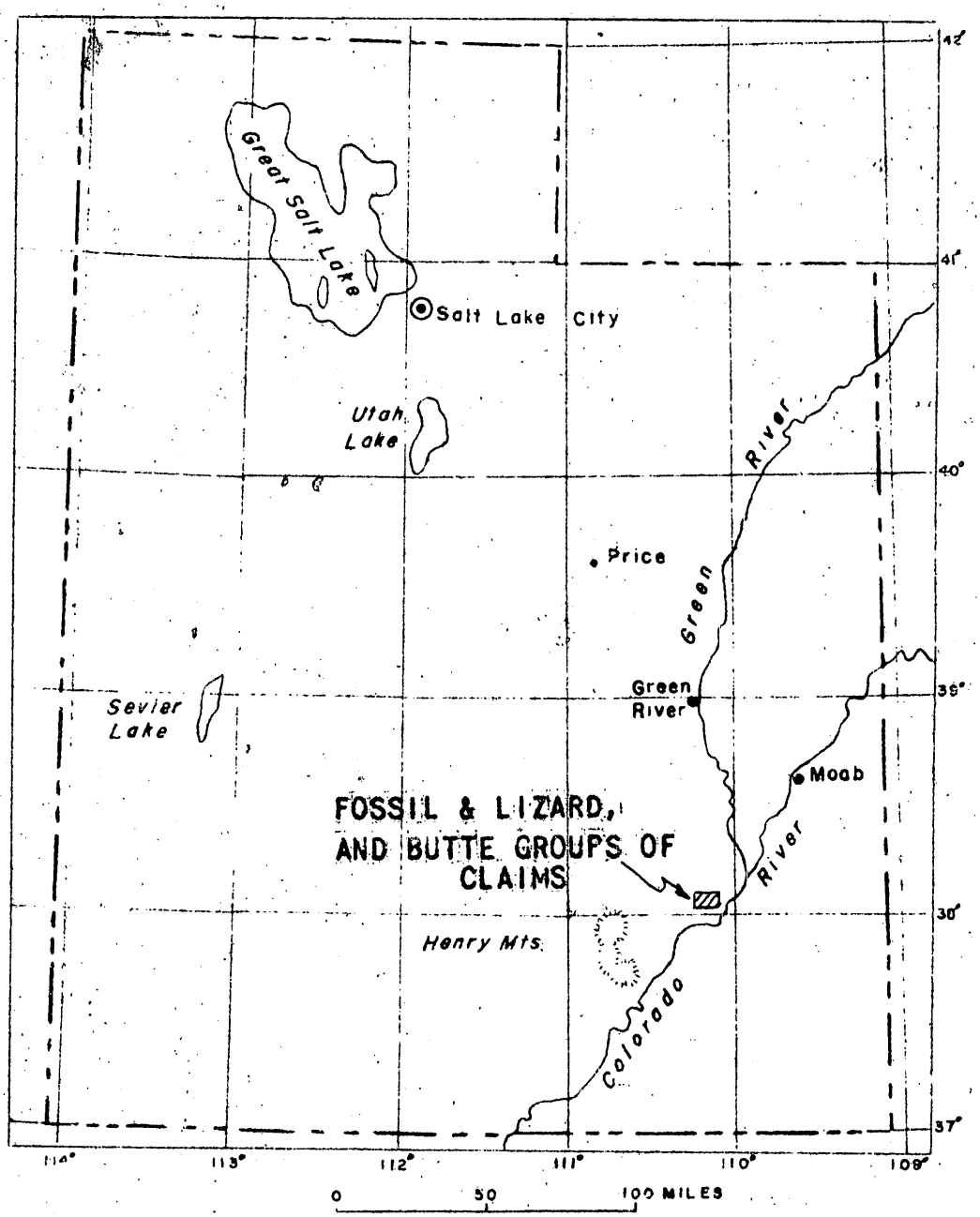

FIGURE 1. INDEX MAP SHOWING LOCATION OF FOSSIL & LIZARD, AND BUTTE GROUPS OF CLAIMS, GUNSITE BUTTE URANIUM CORPORATION, GARFIELD COUNTY, UTAH.

The property was examined on March 6, 1956, by W. E. Young, U. S. Bureau of Mines, and H. B. Dyer, U. S. Geological Survey. Claude Lacy accompanied the examiners on the property and aided in locating the proposed drilling and mineralized outcrops. Frank McKeown, USGS project geologist for the area, made many helpful suggestions and furnished data on the thickness of the stratigraphic units. H. B. Wood of the Atomic Energy Commission was consulted concerning the application.

The applicant originally proposed an indefinite program of rim stripping, drilling, and geological work. A more definite program was later submitted; this program is divided into two phases. The first phase consists of drilling 170 holes on 200-foot centers along the roads on the claims. The second phase consists of 50 offset holes around mineralized first phase holes. The cost of the program is estimated at $83,760.30.

There are two separate groups of claims, the Fossil and Lizard group and the Butte group.

The Butte group of claims lies just southwest from Gunsite Butte. The ore-bearing sandstone is at the base of the Monitor Butte member of the Chinle formation. This same sandstone was explored on the nearby Simplot property under DMEA Docket 1685X, Contract Idm-E 225. The exploration on the Simplot property failed to find significant quantities of uranium ore.

On the Fossil and Lizard group, 2 to 4 miles northeast of Gunsite Butte (fig. 2), the potential ore-bearing host rock is the

Moss Back member of the Chinle formation. On these claims the Moss Back is thick and blanket-like. This type of lithology is unfavorable for the occurrence of significant ore deposits.

Because of the unfavorable nature of the host rock on the Fossil and Lizard group and the poor success of the exploration on the Simplot property in ground similar to the Butte group, it seems unlikely that the applicant's proposed exploration would succeed in finding significant ore bodies in either claim group. Therefore, it is recommended that the applicant's request for DMEA assistance be denied.

GEOLOGY

The claims are located on gently dipping sandstones and mudstones of Triassic and Jurassic age. The rocks dip about 10 degrees to the northwest and are cut by two east-west trending normal faults. Gunsite Butte lies in a small graben (fig. 2).

The oldest formation exposed on the claims is the Moenkopi formation of Triassic age. The Moenkopi formation consists of evenly bedded brown siltstones with a few thin green siltstone beds. The Moenkopi is about 420 feet thick and consists of mudstone, siltstone, and occasional fine sandstone. It weathers to intricately dissected slopes.

The Moenkopi is unconformably overlain by the Triassic Chinle formation which contains the ore zones in this area. Three members of the Chinle formation are exposed on the claims. The oldest member

is the Monitor Butte, which rests on the slightly irregular, eroded upper surface of the Moenkopi formation. The Monitor Butte consists of green mudstones with thin sandstone lenses at the base. The sandstone lenses usually contain carbonized plant fragments. The thickness of the Monitor Butte member ranges from a knife edge to 60 feet; this variation is largely due to erosion after deposition of the member.

The Moss Back member overlies the Monitor Butte member, and the contact between the members is an erosional unconformity. The Moss Back consists of sandstone and conglomeratic sandstone, but thin green mudstone splits are common. The thickness of the Moss Back member ranges between 30 and 90 feet; this variation in thickness is largely due to "channeling" into the underlying beds. The Moss Back member grades upward into the Church Rock member of the Chinle formation.

The Church Rock member consists of 400 feet of red bentonitic shale and siltstone with a few sandy and limy beds. It is a non-resistant rock and forms slopes overlying the ledges formed by the resistant Moss Back member.

The Glen Canyon group of Triassic and Jurassic age conformably overlies the Chinle formation. The Glen Canyon consists of three formations: the Wingate sandstone, the Kayenta formation, and the Navajo sandstone, in ascending order. The lowest formation, the Wingate, forms vertical cliffs and makes access to the claim area difficult. The Kayenta formation overlies the Wingate and forms

broad upland benches. A few isolated outliers of the Navajo sandstone are found as rounded hills rising above the benches of the Kayenta formations.

The Monitor Butte and Moss Back members are the potential "ore horizons" on the claims, and the geology of the members differs between the two groups of claims. On the Butte group of claims, southwest of Gunsite Butte (fig. 2), the Monitor Butte member averages about 60 feet thick and is overlain by 20 to 30 feet of the Moss Back member. On the Fossil and Lizard group of claims northwest of Gunsite Butte (fig. 2), the Monitor Butte member has been removed by pre-Moss Back erosion, and the conglomerates and sandstones of the Moss Back member rest directly on the Moenkopi formation. The Moss Back member forms a relatively thick and uniform blanket on the Fossil and Lizard group of claims and the lower contact has only minor irregularities.

ORE DEPOSITS

Ore deposits of commercial size and grade are unknown in the vicinity of the claims. The nearest occurrence of ore is in Poison Springs Canyon about 15 miles west of the property. None of the three deposits in Poison Springs Canyon is large, and production is insignificant.

Mineralized material on the Butte group of claims is confined to a sandstone lens at the base of the Monitor Butte member. Where this sandstone rim has been stripped just north of the Butte group

(fig. 2), the sandstone is carbonaceous and the carbonized logs and plant fragments have radioactivity indicating a grade of 0.04 to 0.05 percent eU_3O_8. A thin seam of carbonaceous material extends 15 feet along the basal contact and has a similar radioactivity. The sandstone is 5 to 8 feet thick and the upper 5 feet of the Moenkopi formation is bleached. No uranium, vanadium, or copper minerals are visible on the outcrop. On the Butte claims south of the rim-stripped area, the sandstone at the base of the Monitor Butte is discontinuously exposed. Many of the outcrops carry similar radioactivity but minable reserves are unknown.

The potential ore horizon on the Fossil and Lizard group is the Moss Back member of the Chinle formation. The Moss Back lies directly on the Moenkopi formation and the underlying Monitor Butte member has been removed by pre-Moss Back erosion. The Moss Back is a relatively thick and uniform blanket-like layer and lacks features which can be considered usable guides to ore. It is known to be mineralized in only one spot and the mineralization is confined to carbonaceous trash.

The geology of the Butte group is similar to the geology of the Simplot claims a few miles northwest of the Gunsite Butte. The Simplot claims were explored under Contract Idm-E 225,(DMEA Docket 1685X) and the results of the exploration were disappointing. The basal sandstone of the Shinarump that was explored on the Simplot claims is the lateral equivalent of the sandstone at the base of the Monitor Butte, and each can easily be traced from one area to the other. It seems reasonable to expect that the drilling results would be the same in both areas.

Briefly summarized, the results of the Simplot exploration were as follows: Radioactivity anomalies were located in the area, the area was prospected and staked. The prospecting was successful in finding mineralized outcrops with copper minerals on the outcrop. The area was rim-stripped and drilled under DMEA funds, but the exploration did not locate economic ore bodies.

The only significant difference between the two areas is that the Butte group lacks the copper values commonly found in the Simplot area. Because of the failure of the Simplot exploration program, it seems unlikely that exploration of the Butte group would find economic ore bodies.

PROPOSED EXPLORATION

The applicant proposes drilling 170 first phase holes and 50 second phase holes along the roads on the claims. Drilling depths would average between 150 and 175 feet, and the lower 25 feet of the second phase holes would be cored. The applicant estimates the cost of the project at $83,760.30. No alternate program is proposed by the examining team.

CONCLUSIONS AND RECOMMENDATIONS

The geology of the Fossil and Lizard group, northeast of Gunsite Butte, lacks features which would indicate the presence of significant ore deposits. The Moss Back forms a relatively thick and uniform blanket. This type of host rock is characteristically barren throughout

many miles of outcrop, and although intensively prospected, little production has come from areas where the host rock has this character. It is possible that a concealed facies change might represent an area of relatively favorable ground on the claims, but evidence of such a change is lacking.

The lack of usable guides to ore on the group makes the drilling on the Fossil and Lizard group a prospecting venture.

The failure of J. R. Simplot's carefully planned exploration under Contract Idm-E 225 and the lack of usable guides to ore make it seem unlikely that the proposed exploration would find significant ore bodies. Therefore, it is recommended that the application for assistance (DMEA Docket 3902) be denied.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
MARCH 1956
DOCKET 3902

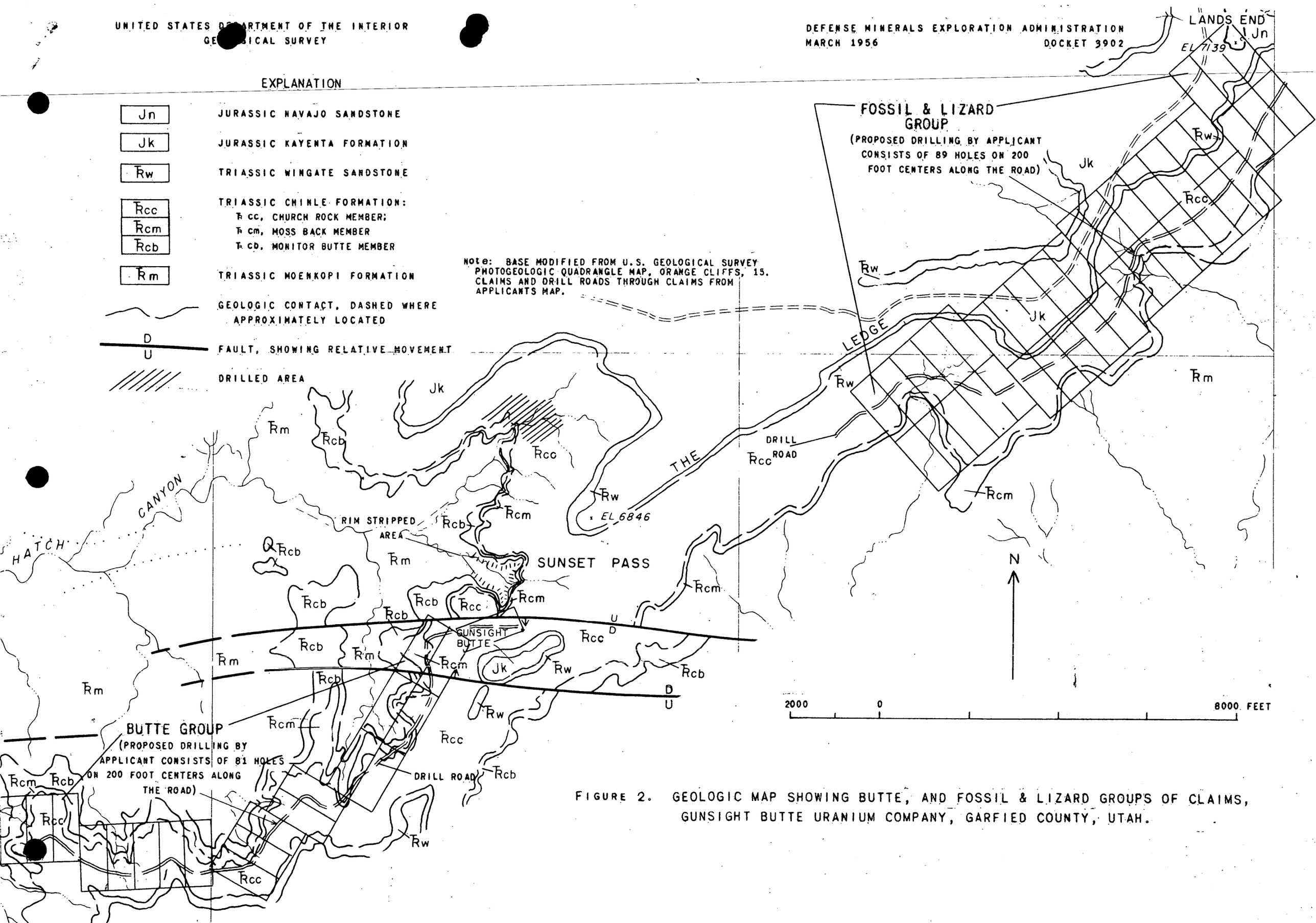

FIGURE 2. GEOLOGIC MAP SHOWING BUTTE, AND FOSSIL & LIZARD GROUPS OF CLAIMS, GUNSIGHT BUTTE URANIUM COMPANY, GARFIED COUNTY, UTAH.

DMEA
Date Rec'd
DEC 21 1955
BUREAU OF MINES
Denver, Colorado

December 20, 1955

Memorandum

To: S. R. Wilson

From: Acting Supt., Denver Experiment Station, Reg. III

Subject: Docket DMEA 3908 (Uranium), Gunsite Butte Uranium Corporation, Butte, Lizard, and Fossil groups, Garfield County, Utah

Enclosed is an application submitted by Gunsite Butte Uranium Corporation in the amount of $41,800.00.

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

John F. Shaw

cc: W. M. Traver (3)
E. N. Harshman
J. W. Hasler
M. H. Salsbury
J. F. Shaw
Sec. Ops. Comm. (2)

DMEA
Date Rec'd.

DEC 21 1955

BUREAU OF MINES
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M. E. Salsbury
J. F. Shaw
Sec. Op. Comm. (2)

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

RECEIVED
DEC 28 1955

224 New Customhouse
Denver 2, Colorado

December 19, 1955

Memorandum

To: J. F. Shaw (with brochure and additional information)
J. W. Hasler (with additional information)

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

Subject: Docket DMEA 3902 (Uranium), Gunsite Butte Uranium Corporation, Butte, Lizzard, and Fossil groups, Garfield County, Utah

Enclosed is the subject application in the amount of $41,800.00. Also enclosed is a copy of a letter from the Chairman of the Operating Committee, DMEA with attached memoranda of review of the application by the Uranium Commodity Committee.

The additional information submitted by the applicant consists of a letter dated November 14, 1955 and two claim maps.

A field examination and suitable report are requested.

C. N. Harshman

C. N. Harshman

Enclosures
HMC:ab
cc: Docket
Sec. Opr. Comm. (2)
Harshman
Chron.

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

RECEIVED
DEC 23 1955

224 New Customhouse
Denver 2, Colorado

December 19, 1955

Memorandum

To: J. F. Shaw (with brochure and additional information)
J. W. Hasler (with additional information)

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

Subject: Docket DMEA 3902 (Uranium), Gunsite Butte Uranium Corporation, Butte, Lizzard, and Fossil groups, Garfield County, Utah

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The additional information submitted by the applicant consists of a letter dated November 14, 1955 and two claim maps.

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E. N. Harshman

E. N. Harshman

Enclosures
HMC:ab
cc: Docket
Sec. Opr. Comm. (2)
Harshman
Chron.

Surname

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

DEC 13 1955

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

Re: Docket No. DMEA-3902 (Uranium)
Gunsite Butte Uranium Corporation
Butte, Lizzard, and Fossil groups
Garfield County, Utah

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for investigation, a field examination, and recommendation. A copy of the application was forwarded to your office on July 20, 1955.

There has been considerable delay in processing this application. Mr. Ellis, Chief, Rare and Miscellaneous Metals Division, in a letter to the Applicant, dated July 22, requested additional information. Copies of this letter were forwarded to your office. This additional information has recently been submitted to Washington; therefore, we are enclosing one copy of the narrative and two copies of each map for your files.

Also enclosed are memoranda, dated July 26 and December 7, 1955, by W. P. Williams, USGS, and J. E. Crawford, USBM, respectively. After a review of the additional information submitted by the Applicant, Mr. Williams states his conclusions remain the same.

In a letter accompanying the additional information the Applicant requested that all communications be addressed to L. J. Fyans, General Manager, Gunsite Butte Uranium Corporation, 26 West Broadway, Salt Lake City, Utah.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (SHB)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard
Member, Geological Survey (SHB)

FMMurphy/gla
12-12-55

cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700 Mr. Murphy

Surname copy 700

Murphy
file
Selfridge
FFMurphy

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

Mr. L. J. Fyans, General Manager
Gunsite Butte Uranium Corporation
26 West Broadway
Salt Lake City, Utah

DEC 13 1955

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizzard, and Fossil groups
Garfield County, Utah

Dear Mr. Fyans:

This is to acknowledge receipt of the additional information enclosed with your letter of November 15, 1955.

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

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
22h New Customhouse Building
Denver 2, Colorado

The Regional Office will contact you in regard to your project at the earliest opportunity.

Sincerely yours,

C. O. Williamson
(Ryes 57)
Administrator

FMMurphy/gla
12-12-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

Surname copy

700

Murphy
Ellis
Chas H. Gillespie
Gechen

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

Mr. L. J. Fyans, General Manager
Gunsite Butte Uranium Corporation
26 West Broadway
Salt Lake City, Utah

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizzard, and Fossil groups
Garfield County, Utah

Dear Mr. Fyans:

This is to acknowledge receipt of the additional information enclosed with your letter of November 15, 1955.

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

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

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

Sincerely yours,

Administrator

FMMurphy/gla
12-12-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

12/8/55 gla

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

RECEIVED
DEC - 8 1955

December 7, 1955

Memorandum

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

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

Subject: Additional Information, DMEA Docket 3902, Butte, Lizard, and Fossil groups, Garfield County, Utah

I have reviewed the attached additional information, Butte, Lizard, and Fossil groups, DMEA Docket 3902, dated November 14 and received in this office November 22.

The applicant has submitted additional information as requested by DMEA on October 28, 1955. Although the exploration program is rather well defined in the submitted information, no evidence was presented that would justify the exploration.

Inasmuch as the applicant cannot supply information that would encourage an exploration project, denial of the application for Federal aid is recommended.

John E Crawford
John E. Crawford

Attachment

Note: See W. P. Williams' memo 7/26/55 - recommending field exam. Fuqua.

11-18-55 [illegible]

MINING UR[illegible]UM OIL EXPLOR[illegible]ON GAS

GUNSITE BUTTE URANIUM CORPORATION

26 WEST BROADWAY
SALT LAKE CITY, UTAH

November 15, 1955

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

Att'n: Mr. Ellis, Chief, Rare & Miscellaneous Metals Division

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizard and Fossil groups
Garfield County, Utah

Dear Sir:

Enclosed please find a report, maps and drilling program on our properties. It was my understanding that a previous report of this nature had been submitted, but evidently this was not the case.

I hope that everything you require in this regard is here. If there is any further information you would like to have, please advise, and it will be forwarded immediately.

It would be appreciated if you would send all further communications directly to this office.

Very sincerely yours,

L. J. Fyans, General Manager
Gunsite Butte Uranium Corporation

LJF/dm
encl

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NOV 18 1955

MINING URANIUM OIL EXPLORATION GAS

GUNSITE BUTTE URANIUM CORPORATION

26 WEST BROADWAY
SALT LAKE CITY, UTAH

November 14, 1955

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

Att'n: Mr. Ellis, Chief, Rare & Miscellaneous Metals Division

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizard, and Fossil groups
Garfield County, Utah

Dear Sir:

Following is an outline of the proposed drilling program for the Gunsite Butte Uranium Corporation claims in the Gunsite Butte area, Garfield County, Utah. The claims are in three groups of twenty each. The Lizard and Fossil groups are contiguous and the Butte group lies about two miles south west.

Ore Bearing Zone

The ore bearing horizon in the area of the Gunsite Butte claims appears to near the base of the shinarump formation. This is the ore horizon in the Temple Mountain mining area of the San Rafael Swell and Dead Horse Point. About 10 miles west of the Gunsite group there has been commercial ore found in this horizon at Poison Springs. Along the Fremont River to the west of the property there are several small properties being worked.

Just to the north east of the Butte group a mineralized channel is cut by a wash. The channel contains carbon and other channel materials that count up to .5% U_3O_8. The channel appears to trend about south 70° west into the Butte Claims 2 through 7.

There are three spots on the Fossil and Lizard groups where reasonably good count has been found at the base of the Shinarump. They are located on the outcrop about the center of Fossil 4, Fossil 14, and Lizard 8. The moenkopi-shinarump contact is exposed on about 50% of the shinarump outcrop. No channels have been found along the outcrop.

Proposed drill program, Butte group of claims

The Butte group of claims are traversed by a road put in by the Gunsite Butte Uranium Corporation. The road is stratigraphically located 3/4 of the way down the chinle formation although in plan it is about half way between the lower shinarump formation and the overlying wingate. It is the general plan of the Gunsite Butte Uranium Corporation to drill a row of holes spaced 200 feet apart along the road way.

RECEIVED
NOV 18 1955

The holes will average 175 feet deep where they pass through the shinarump into the moenkopi.

As mineralization is found it will be investigated further by closer spacing of holes on the road and by putting in holes below the road. Because of the rough terrain a bulldozer will have to be at the property during the drilling program.

Following is an estimate of drilling cost:

Initial program

Plug drilling 81 holes @ 175' = 14,175' @ $1.75 =	$24,806.25
Bulldozer standby 25 days @ $75.00 per day	1,875.00
Geologist supervision 10% of drilling	2,480.63
Mobilization	3,000.00
Supervision	1,500.00
	$33,661.88

Secondary program estimated

Plug drilling 20 holes @ 150' = 3,000' @ $1.75	$5,250.00
Core drilling 20 holes @ 25' = 500' @ $2.75	1,375.00
Bulldozer 5 days @ $75.00 per day	375.00
Geologist supervision 10% of drilling	662.50
Supervision	500.00
	$8,162.50

It is estimated that two rotary drills using air rather than water can complete the job in about 30 days.

Totals for primary and secondary drilling on all three groups of claims come to $83,760.30.

Proposed drill program for the Fossil and Lizard groups of claims

The Lizard and Fossil groups being adjoining and on identical terrain will be drilled as one group. The Gunsite Butte Uranium Corporation traversed both groups of claims with a road stratigraphically 4/5 of the way down the chinle formation. It is the general plan of the Gunsite Butte Uranium Corporation to drill a row of holes spaced 150 feet apart along the road way. The holes will average 150 feet in depth to the moenkopi contact.

When mineralization is found it will be checked by closer spacing of holes and running a row of holes out towara the shinarump outcrop. Because of the rough terrain a bulldozer will have to be kept on the property during the drilling.

Following is an estimate of drilling cost:

Initial program

Plug drilling 89 holes @ 150' = 13,350' @ $1.75 =	$23,362.50
Bulldozer standby 25 days @ $75.00 a day	1,875.00
Geologist supervision 10% of drilling	2,336.25
Mobilization & demobilization	2,500.00
Supervision	1,500.00
	$31,573.75

Secondary program estimated

Plug drilling 30 holes @ 125' = 3,750' @ $1.75	=	$6,565.50
Core drilling 30 holes @ 25' = 750' @$2.75		2,062.20
Bulldozer 5 days @ $75.00 per day		375.00
Geologist supervision 10% of drilling		862.47
Supervision		500.00
		$10,362.17

It is estimated that two rotary drills can complete the program in a little over 30 days.

Record of claim filing

The record of the Gunsite Butte Uranium Corporation mining claims will be found in the recorder's office at Panguitch, Garfield County, Utah.

Butte group was filed July 5, 1954, in book 37 in numerical order on pages 476 through 495 inclusive. The claims were later posted and filed September 28, 1955, to comply with the Multiple Use of Land law. The claims are filed in numerical order in book 51, pages 184 through 203 inclusive.

The Lizard group was filed in book 38 in numerical order on page 1 through 20 inclusive on July 6, 1954. In compliance with the Multiple Use of Land law the claims were again posted and filed September 28, 1955. They are in book 51 in numerical order on page 144 through 163 inclusive.

The Fossil group was filed July 6, 1954, in book 38 numerically on pages 21 through 40 inclusive. The claims were again posted and filed in compliance with the law on September 28, 1955. They are in book 51, pages 164 to 183 inclusive in numerical order.

Sincerely yours,

Ralph C. Karlsten

Ralph C. Karlsten
Mining Engineer

dm

Surname copy 700

Murphy
Ellis
Johnson

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

OCT 28 1955

Mr. Nathan Wechsler, Attorney
Gunsite Butte Uranium Corporation
1010 Vermont Avenue, N. W.
Washington, D. C.

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizzard, and Fossil groups
Garfield County, Utah

Dear Mr. Wechsler:

Reference is made to our letter dated July 22, 1955, relating to the captioned docket.

Action on your application is pending receipt of the information requested in the above-mentioned letter. If you are no longer interested in the processing of this application, please advise us.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/gla
10-27-55
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

7/26/55 gfa

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

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

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

Subject: Application for assistance, DMEA Docket 3902, Gunsite Butte Uranium Corporation, Garfield County, Utah

I have reviewed the attached application for assistance, Gunsite Butte Uranium Corporation, DMEA Docket 3902; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The application lacks sufficient data regarding extent of mineralized outcrops. Results of radiometric surveys in terms of counts per minute are not suitable for an evaluation of the occurrences mentioned. More information relative to the location, thickness, and length of the radioactive carbonaceous layers should be required. Some sampling of the material should be carried out, and results of analyses submitted to the DMEA to verify the degree of mineralization. No mention was made of the Fossil group of claims, and if the exploration project was to include this land.

Mr. Hosted and I suggest that the Gunsite Butte Uranium Corporation be requested to submit the supplementary information needed to properly evaluate the application; or if it is not deemed advisable to ask for more data, we recommend that the application be denied.

John E Crawford
John E. Crawford

Attachment

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

July 26, 1955

Memorandum

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

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UNITED STATES
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BUREAU OF MINES
WASHINGTON 25, D. C.

July 26, 1955

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John E. Crawford

Attachment

7/26/55 gla

IN REPLY REFER TO:

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

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

From: W. P. Williams, U. S. Geological Survey

Subject: Review of DMEA Docket No. 3902, Gunsite Butte Uranium Corp., Butte, Lizzard, and Fossil claim groups, Garfield County, Utah.

The applicant proposes to explore for uranium on a total of 60 unpatented mining claims. A generalized program is proposed consisting of radiometric and geological surveying, rim stripping, road building, and drilling at a total estimated cost of $41,800.

John Q. St. Clair, consulting geologist who prepared the application, states "evidence of . . . . paleochannels . . . . was observed." He also speaks of mineralization on the property, and Plate I of the application shows three mineralized outcrops. A carbonaceous bed in the Shinarump formation has been found by stripping on claim No. 4 in the Gunsite Butte group.

I do not know of any significant uranium ore deposits nor of any ore production in the close vicinity of the subject property. On the other hand, the area has not in all likelihood been adequately explored and prospected. Before further action on the application is taken by the Government the character of the Shinarump formation on the claims should be evaluated. I recommend that the application be referred to the Field Team for field examination. If, after field examination, exploration appears warranted the examining team should discuss with the applicant a more concrete exploration program.

W P Williams

W. P. Williams

IN REPLY REFER TO:

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

RECEIVED
JUL 26 1955

July 2[illegible], 1955

Memorandum

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

From: W. P. Williams, U. S. Geological Survey

Subject: Review of DMEA Docket No. 3502, Gunsite Butte Uranium Corp., Butte, Lizzard, and Fossil claim groups, Garfield County, Utah.

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WPW

W. P. Williams

WPWilliams:iml
G-7/26/55

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

700

Surname copy Murphy Ellis Mitchell

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

JUL 22 1955

Mr. Nathan Wechsler, Attorney
Gunsite Butte Uranium Corporation
1010 Vermont Avenue, N. W.
Washington, D. C.

Re: Docket No. DMEA-3902 (Uranium)
Butte, Lizzard, and Fossil groups
Garfield County, Utah

Dear Mr. Wechsler:

The above-docketed application for aid in an exploration project has been reviewed by this Division.

We note that the application, as submitted, lacks essential data on which the merits of your proposal can be judged, namely:

1. A map or sketch, showing the individual claims with their name and/or number; also, recording data, book and page number for each claim.

2. A tentative drill-hole pattern, indicating the approximate depth of each hole.

3. Location and extent of proposed access roads.

4. Location and trend of any scour channels in the Moenkopi formation.

5. Justification for the proposed drill-hole pattern and the estimated depth of the proposed holes.

6. Results of chemical analyses of any samples from the claims and locations where samples were procured.

Will you please advise this office the approximate date we may expect to receive this additional information. We will require four complete sets of all data submitted.

As soon as this essential data is received, we shall promptly continue to process your application.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/gla
7-21-55
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

July 20, 1955
Subject: DMEA-3902
Re: Exploration Assistance

Mr. Nathan Wechsler
1010 Vermont Avenue, N.W.
Washington, D.C.

Dear Mr. Wechsler:

The receipt of your application dated July 15, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3902 and referred to the Rare and Miscellaneous Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUL 13 1955

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

Not to be filled in by applicant

Docket No. 3902
Metal or Mineral Uranium
Date Received 6-13-55
Estimated Cost $41,800
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: GUNSITE BUTTE URANIUM CORPORATION
26 West Broadway
Salt Lake City
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. See Page 1 Report

(*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
See Page 2 Report

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

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

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

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

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

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 Page 2 Report

(*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. See Page 5 Report

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Page 4 Report

(*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 ore

(*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 30 days and be completed within 3 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 Page 12 Report

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

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). See Page 10 Report

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants. See Page 10 Report

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See Page 10 Report

(*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. See Page 10 Report

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. See Page 10 Report

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

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

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

[X] Money [ ] 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 July 15, 1955

GUNSITE BUTTE URANIUM CORPORATION
(Applicant)

By Nathan Wechsler

Nathan Wechsler, Power of Attorney

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

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That CONSITE BUTTE URANIUM CORPORATION, a Utah Corporation, does hereby make, constitute and appoint, NATHAN WECHSLER, his agents and attorneys, its true and lawful attorney to appear for it and represent it before the United States Department of Interior, Defense Minerals Exploration Administration, in connection with any matters involving application for aid in an exploration project in which it is a party, giving its said attorney full power to do everything whatsoever requisite and necessary to be done in these matters, and to execute all agreements in these matters, as fully as the undersigned might do if done in its own capacity, with full power of substitution and revocation at any time subsequent to the date hereof and prior to the revocation hereof.

It is requested that all communications addressed to the undersigned, [illegible] all matters for which the said attorney is hereby authorized [illegible] be addressed to:

Mr. Nathan Wechsler
1010 Vermont Avenue, N.W.
Washington, D. C.

All powers of attorney for this purpose heretofore filed or executed by us are hereby revoked.

IN WITNESS WHEREOF, the said CONSITE BUTTE URANIUM CORPORATION, has executed this power of attorney in duplicate by causing its name to be hereunto signed by ~~[illegible]~~ Its President, with its corporate seal affixed and attested by ~~[illegible]~~ its ~~Secretary~~, this 16th day of March, 1955, A.D. Director

CONSITE BUTTE URANIUM CORPORATION

By [illegible]
President TREASURER

Attest:
[illegible] Director
Secretary

State of Utah
County of Salt Lake } ss.

On the 16th day of March, 1955, personally appeared before me [illegible] who being duly sworn, did say that they are the President and Secretary of the above and foregoing instrument of attorney, and that said instrument was signed in behalf of said corporation by authority of its Board of Directors, and said [illegible] acknowledged to me that said corporation executed the same.

Witness my hand and seal this 16th day of March, 1955.

My Commission Expires
July 14, 1955

[illegible]
Notary Public

REPORT ACCOMPANYING APPLICATION TO DMEA

BY

GUNSITE BUTTE URANIUM CORPORATION

Prepared by:
John Q. St. Clair
Mining Geologist
Grand Junction, Colo.
July 1955

CONTENTS

Section	Page
I. Name of Applicant	1
II. Property Rights	2
III. Physical Description	3
A. History	3
B. Accessibility	4
C. Topography	5
D. Geologic Setting	5
E. Structure	7
F. Mineralization	7
IV. The Exploration Project	9
A. Objective	9
B. Proposed Work	9
V. Estimate of Costs	10
IV. Operating Experience and Background of Applicant	12

ILLUSTRATIONS

Plate		Following Page
1	Geologic and Claim Map	(Front Cover)
2	Location Map	3
3	Topographic Map	(In Pocket)

APPENDIX

Quit Claim Deed 14

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

REPORT ACCOMPANYING APPLICATION TO DMEA

I. NAME OF APPLICANT

(a) The applicant is the Gunsite Butte Uranium Corporation, 26 West Broadway, Salt Lake City, Utah.

(b) The Gunsite Butte Uranium Corporation is a corporation organized in and doing business under the laws of the State of Utah.

(c) The following are the titles, names and addresses of officers and directors:

(1) President:

Leslie J. Fyans
311 East 4800 South
Murray, Utah

(2) Vice-President:

Claude Lacy
Wellington, Utah

(3) Secretary:

Milton V. Backman
145 South 5th East
Salt Lake City, Utah

(4) Treasurer:

Nick M. Vrontikis
2010 South State
Salt Lake City, Utah

(5) Director:

Wiley L. Ludwig
1400 South 15th East
Salt Lake City, Utah

(6) Director:

J. C. Cardall
379 "K" Street
Salt Lake City, Utah

(7) Director:

Clint Brown
3619 South 9th East
Salt Lake City, Utah

(8) Director:

B. Leland Tanner
1875 Siggard Drive
Salt Lake City, Utah

II. PROPERTY RIGHTS

The sixty mining claims held by the applicant are located in an unsurveyed area in Garfield County, Utah, and total approximately 1200 acres. The claim area is divided into three name groups, as follows:

(1) Butte Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of Garfield County Recorder, Book 37, Pages 476 to 495 and Book 51, Pages 184 to 203, inclusive.

(2) Fossil Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County

(2) Fossil Group (Continued)

Recorder, Book 38, Pages 21 to 40, and Book 51, Pages 164 to 183, inclusive.

(3) Lizzard Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County Recorder, Book 38, Pages 1 to 20, and Book 51, Pages 144 to 163, inclusive.

The Quit Claim Deed covering the transfer of these claims may be found in the Appendix.

Although the area is unsurveyed, the claim groups may be located approximately in Sections 22, 27, 28, 29, 31 and 32, Township 31 South, Range 16 East; in Section 36, Township 31 South, Range 15 East; and in Sections 1, 2, 3, 9, 10, 11 and 12, Township 32 South, Range 15 East of the Salt Lake Meridian.

The overlay of Plate 1 (front cover) shows the approximate location of the three claim groups.

III. PHYSICAL DESCRIPTION

A. History

The principal development work carried out on the claims at the time of submitting this aplication was the construction of more

than seven miles of access and drill roads through the approximate center of the claim groups in a southwesterly direction. This road follows a more or less continuous topographic bench formed by the Shinarump conglomerate, and proposed drilling sites would be located along this road. The approximate cost of this previous road building is reportedly $1500 per mile.

Some surface stripping and bulldozing was done on Claim No. 4, located in the northern part of the Butte Group, where a mineralized outcrop occurs about 100 feet north of the northernmost east-west fault of the Gunsite Butte graben. The estimated position of this outcrop is shown on Plate I (front cover).

No other exploration or development work has been reported.

B. Accessibility

The northeastern claims in the Fossil Group are located about 95 miles south of Green River, Utah, and may be reached by road, as follows:

Green River, via Utah State Highway 24 to Temple Mountain turn-off.	35 miles
Temple Mountain turn-off to claim area, via a secondary road southeasterly towards Land's End.	60 miles

In order to facilitate the transportation of heavy drilling equipment, some additional road improvements will be necessary on the property access road, and on the Middle Trail road leading into the property from the north.

C. Topography

The Gunsite Butte area is characterized by steep-walled canyons and flat-topped buttes, mesas and ridges. The elevations within the claim area vary from over 6800 feet, along the Orange Cliffs, to less than 6000 feet. Refer to topographic map (in pocket) for details.

Water is scarce, but obtainable from several springs in the general area.

The Colorado River, at its nearest point, in located about 4 1/2 miles southeast of the property.

D. Geologic Setting

The rocks exposed within the claim area are shown on Plate I (front cover). Five consolidated sedimentary formations outcrop, the oldest being represented by the Moenkopi of Triassic age, composed dominently of silty sandstone and shale with some conglomerate and numerous thin beds of grey to red-brown ledge-forming sandstone.

The Shinarump conglomerate, or its lateral equivalent, overlying the Moenkopi formation, is classified in the upper Triassic series. It is a cliff- and bench-forming unit within the claim area, and its thickness varies from 60 to 130 feet.

Observations made on the property show that the Shinarump is composed of sandstone, conglomerate lenses and grey to red shale. Evidence of the presence of paleochannels, developed in the underlying Moenkopi, was also observed.

The Chinle formation of Triassic age, overlying the Shinarump, develops the slopes to the base of the Wingate formation, and is composed principally of varigated shale with interbedded sandstone and subordinate conglomeratic sandstone lenses, which may carry mineralization. The slopes of the Chinle formation are covered in places with a mantle of debris which has fallen from the cliffs above them; these cliffs are formed by the Wingate and younger formations. Fossil wood is abundant in this formation.

The thickness of the Chinle is estimated at 300 feet.

The contact of the Chinle with the overlying Wingate of Triassic age is sharp and marks an abrupt change in lithology. The Wingate formation forms nearly vertical cliffs throughout the claim area and is represented by brownish-red, massive, cross-bedded sandstone of approximately 300 feet in thickness.

Above the Wingate occurs the Kayenta formation of Jurassic age which is composed of sandstone with some interbedded shale and conglomerate.

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

E. Structure

The regional dip of the formations in this area varies from 1 to 3 degrees west, although locally an increase in this range may be expected.

An east-west graben fault block, with a vertical displacement of about 50 feet, traverses the northern part of the Butte Group of claims.

F. Mineralization

The mineralization observed on the claim groups may be described as follows:

(a) Gunsite Butte Group

A bulldozed outcrop on Claim No. 4 (refer to accompanying map for location) situated approximately 100 feet north of the northernmost fault of the Gunsite Butte graben, and positioned stratigraphically at the base of the Shinarump formation, showed a carbonaceous zone which forms a continuous horizontal bed or layer of about 6 inches in thickness. Stripping indicated that this carbonaceous layer extends at least 50 feet back from the outcrop. A radiometric count of 6 times background was obtained in this zone.

This mineralized zone is overlain by a grayish conglomerate bed and underlain by a yellow to brown siltstone.

No mineralization was observed along the faults, and the existing mineralization does not appear to be controlled by the faulting.

In the vicinity of Claim No. 18 of this same group, an outcrop of Shinarump conglomerate, located in a probable channel, was observed, and a radiometric reading at this point gave a count of 3 times background. Stratigraphically, this outcrop occurs approximately 75 feet above the Moenkopi contact, in a host rock of sandy conglomerate overlain and underlain by a light-red shale.

On Claim No. 8 of this group a mineralized outcrop similar to that found on Claim No. 4 was inspected, but radiometric readings indicated low mineralization only.

(b) Lizzard Group

The Shinarump formation in this area thins to about 100 feet as compared to 150 feet on the Gunsite Butte Group. A mineralized outcrop, probably representing secondary deposition, on Claim No. 11 was present in a grey to yellow shale. Carbonaceous material was observed but not as a continuous horizontal bed, and no radiometric readings were obtained here.

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

IV. THE EXPLORATION PROJECT

A. Objective

The objective of the exploratory program is the discovery of uranium ore.

B. Proposed work

The work proposed under the program would consist of the following:

(a) A detailed radiometric and geologic survey of the outcropping Chinle and Shinarump formations.

(b) Bulldozing of favorable outcrops to determine extensions of mineralized zones.

(c) Bulldozing of existing access roads to permit transport of drilling equipment and to provide drilling locations.

(d) Drilling of areas behind outcrops where mineralization and structural conditions are favorable.

At this stage, therefore, it is difficult to plan an overall program of exploration which would meet with DMEA specifications, and, for this reason, it is proposed to outline the costs of a general program which may be used as a basis of negotiations between ourselves and your agency.

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

V. ESTIMATE OF COSTS

Costs for the project have been estimated on 10,000 feet of drilling over a three-months period.

(1) Independent Contracts		
(a) 10,000 feet of drilling @ $2.00 per foot.	$20,000	
(b) Bulldozing (clearing drill sites, road building, rim stripping, etc.)	7,500	
(c) Assaying 400 samples @ $5.00 each.	2,000	
	$29,500	$29,500
(2) Labor, Supervision & Consultants		
(a) Common labor 1 man @ $400 per month ($400 x 3)	$ 1,200	
(b) Geologist ($600 per month x 3)	1,800	
(c) Consultants (geology)	1,000	
	$ 4,000	4,000
(3) Transportation		2,000
(4) Operating Materials & Supplies		1,500
(5) Miscellaneous		1,000
TOTAL		$38,000

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

Summary of Estimated Costs

(1)	Independent Contracts	$29,500
(2)	Labor, Supervision & Consultants	4,000
(3)	Transportation	2,000
(4)	Operating Materials & Supplies	1,500
(5)	Miscellaneous	1,000
		$38,000
(6)	Add 10% Contingencies	3,800
	TOTAL ESTIMATED COSTS	$41,800

VI. OPERATING EXPERIENCE AND BACKGROUND OF APPLICANT

The backgrounds of the Directors of the company are as follows:

Leslie J. Fyans-President.

Claude Lacy-Vice President, resides at Wellington, Carbon County, Utah, where he is engaged in the occupation of coal mining.

Milton V. Backman-Secretary.

Nick M. Vrontikis-Treasurer, resides at 1968 South State Street, Salt Lake City, Utah. He served in the U. S. Army from 1943 through 1946 and was graduated from the University of Utah School of Business in 1947. From 1948 through 1950 he was employed as a salesman at Bradley-Badger Company. From 1951 to date he has served as President of Vrontikis Bros. Appliance Dealers and is co-owner of Nick and Pete's Used Cars in Salt Lake City, Utah.

Wiley L. Ludwig-Director, resides at 1400 South 15th East, Salt Lake City, Utah. From 1942 through 1948 he served as building superintendent for the Salt Lake City Branch Federal Reserve Bank. From 1949 to date he has been employed as a salesman for Investors Diversified Services, Inc., Salt Lake City, Utah.

J. C. Cardall-Director, resides at 379 "K" Street, Salt Lake City, Utah. From 1943 to 1948 he was employed as manager of Firestone Stores, Logan, Utah, and he has been employed for the past several years as salesman and manager of Bradley-Badger Company stores in Ogden and Salt Lake City, Utah.

Clint Brown-Director.

B. Leland Tanner-Director.

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

OPERATING EXPERIENCE AND BACKGROUND OF APPLICANT

The applicants have appointed Mr. John Q. St. Clair, Mining Geologist, Grand Junction, Colorado to act as their adviser and consultant for work under this program. His background and operating experience is as follows:

Education:	University of Minnesota University of Oklahoma B. S. Geology, 1934 (Phi Beta Kappa)
1924 - 1934	Experience as diamond drill runner and diamond setter and superintendent of drilling operations.
1934 - 1935	Superintendent of Diamond Drilling, East African Goldfields, Ltd., Lupa Goldfield, Tanganyika, East Africa.
1936 - 1939	Consultant on Exploration and Diamond Drilling for New Consolidated Gold Fields, Ltd., Nigel Gold Mining Company, Ltd., South Roodepoort Main Reef Areas, Ltd., and other companies on the Rand, South Africa.
1939 - 1945	(Except for one and one-half years in the armed forces) Director of Research, New Consolidated Gold Fields - Boart Products Diamond Research Laboratory, Johannesburg; also Superintendent of Diamond Drilling Operations, New Consolidated Gold Fields, Ltd.
1945 - 1948	Manager, Boart Products, South Africa, Ltd., and Director, South African Diamond Crowns, Ltd., Johannesburg.
1948 - 1951	Licenced Diamond Dealer, Johannesburg; also Director, St. Clair Exploration Company (Pty) Ltd.
1951 - 1954	Consulting Mining Geologist

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah

APPENDIX

QUIT CLAIM DEED

BOOK 64 PAGE 443

JAMES F. SEALS

Grantor, of Wellington, Utah

hereby QUIT CLAIM to GUNSITE BUTTE URANIUM CORPORATION, a Uta h corporation

Grantee, of 26 West Broadway, Salt Lake City, Utah
Street Address City County State

for the sum of One Dollar and other valuable considerations DOLLARS

the following described tract of land in Garfield County County, State of Utah, to-wit: Those certain mining claims named as follows:

BUTTE No.'s 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20, all located in the Orange Cliffs area, notices of location recorded in the office of the Garfield County Recorder, Book 37, Pages 476 to 495 and Book 51, Pages 184 to 203 inclusive.

FOSSIL No.'s 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 12, 13, 14, 15, 16, 17, 18, 19, 20, all located in the Orange Cliffs area, notices of location recorded in the office of the Garfiad County Recorder, Book 38, pages 21 to 40, and Book 51, pages 164 to 183 inclusive.

LIZARD No.'s 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20, all located in the Orange Clifs area, notices of location recorded in the office of the Garfield County Recorder, Book 38, pages 1 to 20, and Book 51, pages 144 to 163, inclusive.

WITNESS THE HAND of said Grantor this 15th day of February, A. D. 1955

Signed in the presence of
Nancy R. Smith
Pauline M. Huckins

X James F. Seals
James F. Seals

STATE OF UTAH }
County of Tooele } ss.

On the 15th day of February, A. D. 1955, personally appeared before me, a Notary Public in and for the State of Utah, JAMES F. SEALS the signer of the above instrument, who duly acknowledged to me that he executed the same.

Notary Public

My commission expires May 12, 1956 Residing at Tooele Utah

STANDARD SUPPLY CO., PROVO, UTAH

RECORDED February 23 1955 AT 9 A.M
AT REQUEST OF Allen B. Sorenson
Mildred Wood COUNTY RECORDER

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUL 13 1955

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

Not to be filled in by applicant

Docket No. 3902
Metal or Mineral Uranium
Date Received 6-18-55
Estimated Cost $41,800
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: GUNSITE BUTTE URANIUM CORPORATION
26 West Broadway
Salt Lake City
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. See Page 1 Report

(*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 See Page 2 Report

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

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

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

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

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

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 Page 2 Report

(*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. See Page 5 Report

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Page 4 Report

(*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 ore

(*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 contact veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 3 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 Page 12 Report

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

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). See Page 10 Report

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants. See Page 10 Report

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See Page 10 Report

(*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. See Page 10 Report

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. See Page 10 Report

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

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

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

[X] Money [ ] 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 July 15, 1955

GUNSITE BUTTE URANIUM CORPORATION
(Applicant)

By Nathan Wechsler

Nathan Wechsler

Power of Attorney

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

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That GUNSITE BUTTE URANIUM CORPORATION, a Utah Corporation, does hereby make, constitute and appoint, NATHAN WECHSLER, his agents and attorneys, its true and lawful attorney to appear for it and represent it before the United States Department of Interior, Defense Minerals Exploration Administration, in connection with any matters involving application for aid in an exploration project in which it is a party, giving its said attorney full power to do everything whatsoever requisite and necessary to be done in these matters, and to execute all agreements in these matters, as fully as the undersigned might do if done in its own capacity, with full power of substitution and revocation at any time subsequent to the date hereof and prior to the revocation hereof.

It is requested that all communications addressed to the undersigned, regarding any matter in which the said attorney is hereby authorized to act, be addressed to:

Mr. Nathan Wechsler
1010 Vermont Avenue, N.W.
Washington, D. C.

All powers of attorney for this purpose heretofore filed or executed by us are hereby revoked.

IN WITNESS WHEREOF, the said GUNSITE BUTTE URANIUM CORPORATION, has executed this power of attorney in duplicate by causing its name to be hereunto signed by ~~John Berick~~ Nick M. Vranteka, ~~its President~~ Treasurer, with its corporate seal affixed and attested by ~~Dale Reynolds~~ Wiley L. Ludwig, ~~its Secretary~~ Director, this 16th day of March, 1955, A.D.

GUNSITE BUTTE URANIUM CORPORATION

By Nick M. Vranteka
~~President~~ TREASURER

ATTEST:
Wiley L. Ludwig Director
Secretary

STATE OF Utah)
) ss.
CITY OF Salt Lake)

On the 16th day of March A.D., 1955, personally appeared before me Nick M. Vranteka and Wiley L. Ludwig who, being by me duly sworn, did say that they are the ~~President~~ Treasurer and ~~Secretary~~ Director, respectively, of the above corporation, whose names are signed to the foregoing power of attorney, and who have acknowledged the same before me in the city and county aforesaid.

Witness my hand and notarial seal this 16th day of March 1955,

My Commission Expires:
Oct. 12, 1955

Emma W. Blue
Notary Public

REPORT ACCOMPANYING APPLICATION TO DMEA

BY

GUNSITE BUTTE URANIUM CORPORATION

Prepared by:
John Q. St. Clair
Mining Geologist
Grand Junction, Colo.
July 1955

RECEIVED JUL 12 1955

CONTENTS

Section		Page
I.	Name of Applicant	1
II.	Property Rights	2
III.	Physical Description	3
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	C. Topography	5
	D. Geologic Setting	5
	E. Structure	7
	F. Mineralization	7
IV.	The Exploration Project	9
	A. Objective	9
	B. Proposed Work	9
V.	Estimate of Costs	10
IV.	Operating Experience and Background of Applicant	12

ILLUSTRATIONS

Plate		Following Page
1	Geologic and Claim Map	(Front Cover)
2	Location Map	3
3	Topographic Map	(In Pocket)

APPENDIX

Quit Claim Deed	14

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

REPORT ACCOMPANYING APPLICATION TO DMEA

RECEIVED
JUL 1 ? 1955

I. NAME OF APPLICANT

(a) The applicant is the Gunsite Butte Uranium Corporation, 26 West Broadway, Salt Lake City, Utah.

(b) The Gunsite Butte Uranium Corporation is a corporation organized in and doing business under the laws of the State of Utah.

(c) The following are the titles, names and addresses of officers and directors:

(1) President:

Leslie J. Fyans
311 East 4800 South
Murray, Utah

(2) Vice-President:

Claude Lacy
Wellington, Utah

(3) Secretary:

Milton V. Backman
145 South 5th East
Salt Lake City, Utah

(4) Treasurer:

Nick M. Vrontikis
2010 South State
Salt Lake City, Utah

(5) Director:

Wiley L. Ludwig
1400 South 15th East
Salt Lake City, Utah

(6) Director:

J. C. Cardall
379 "K" Street
Salt Lake City, Utah

(7) Director:

Clint Brown
3619 South 9th East
Salt Lake City, Utah

(8) Director:

B. Leland Tanner
1875 Siggard Drive
Salt Lake City, Utah

II. PROPERTY RIGHTS

The sixty mining claims held by the applicant are located in an unsurveyed area in Garfield County, Utah, and total approximately 1200 acres. The claim area is divided into three name groups, as follows:

(1) Butte Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of Garfield County Recorder, Book 37, Pages 476 to 495 and Book 51, Pages 184 to 203, inclusive.

(2) Fossil Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County

(2) Fossil Group (Continued)

Recorder, Book 38, Pages 21 to 40, and Book 51, Pages 164 to 183, inclusive.

(3) Lizzard Group

Claims Nos. 1 to 20, inclusive, with notices of location recorded in the office of the Garfield County Recorder, Book 38, Pages 1 to 20, and Book 51, Pages 144 to 163, inclusive.

The Quit Claim Deed covering the transfer of these claims may be found in the Appendix.

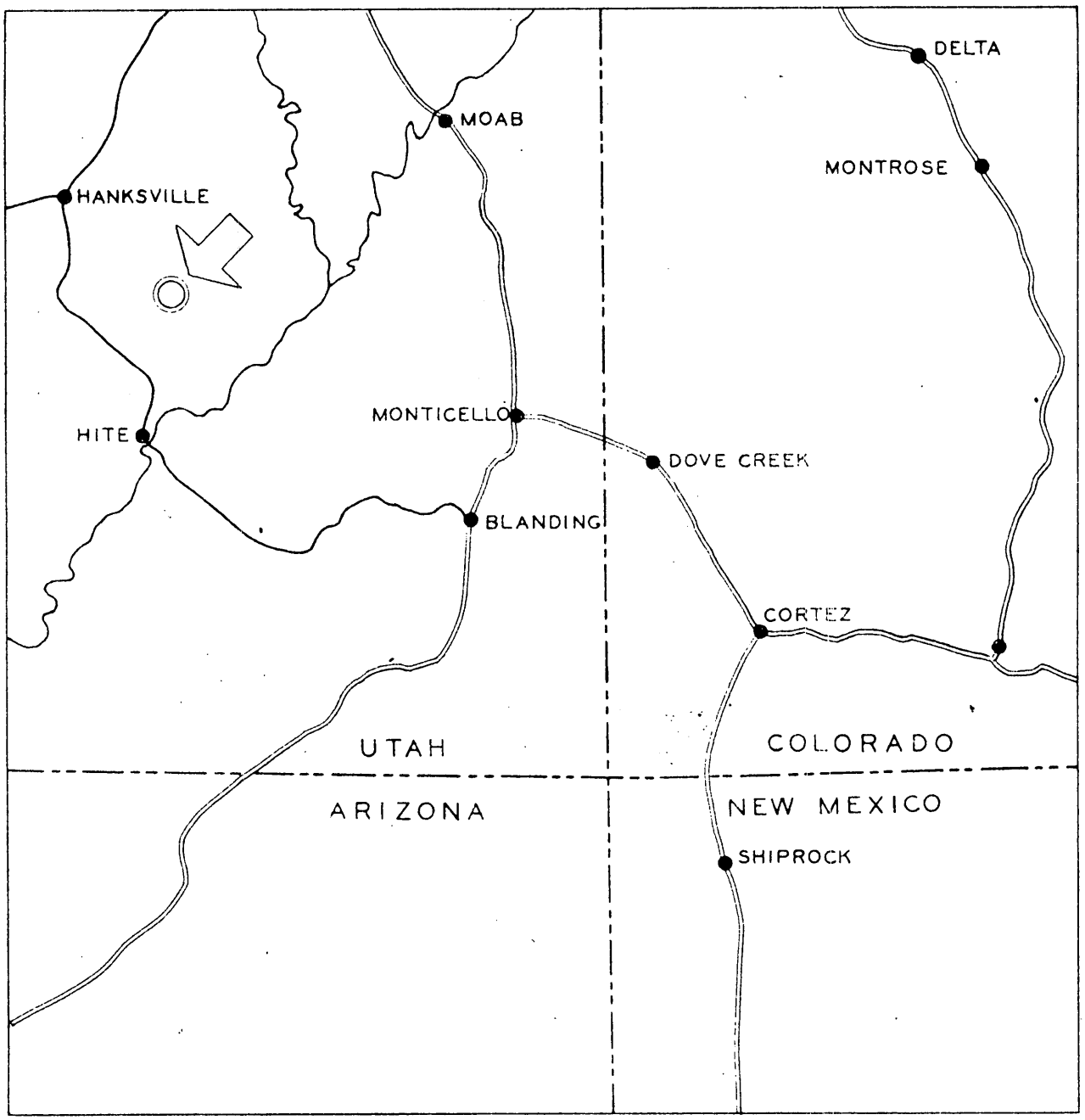
Although the area is unsurveyed, the claim groups may be located approximately in Sections 22, 27, 28, 29, 31 and 32, Township 31 South, Range 16 East; in Section 36, Township 31 South, Range 15 East; and in Sections 1, 2, 3, 9, 10, 11 and 12, Township 32 South, Range 15 East of the Salt Lake Meridian.

The overlay of Plate 1 (front cover) shows the approximate location of the three claim groups.

III. PHYSICAL DESCRIPTION

A. History

The principal development work carried out on the claims at the time of submitting this aplication was the construction of more



LOCATION MAP SHOWING PROPERTIES OF

GUNSITE BUTTE URANIUM CORPORATION

GARFIELD COUNTY · UTAH

SCALE 0 25 50 MILES

than seven miles of access and drill roads through the approximate center of the claim groups in a southwesterly direction. This road follows a more or less continuous topographic bench formed by the Shinarump conglomerate, and proposed drilling sites would be located along this road. The approximate cost of this previous road building is reportedly $1500 per mile.

Some surface stripping and bulldozing was done on Claim No. 4, located in the northern part of the Butte Group, where a mineralized outcrop occurs about 100 feet north of the northernmost east-west fault of the Gunsite Butte graben. The estimated position of this outcrop is shown on Plate I (front cover).

No other exploration or development work has been reported.

B. Accessibility

The northeastern claims in the Fossil Group are located about 95 miles south of Green River, Utah, and may be reached by road, as follows:

Green River, via Utah State Highway 24 to Temple Mountain turn-off.	35 miles
Temple Mountain turn-off to claim area, via a secondary road southeasterly towards Land's End.	60 miles

In order to facilitate the transportation of heavy drilling equipment, some additional road improvements will be necessary on the property access road, and on the Middle Trail road leading into the property from the north.

C. Topography

The Gunsite Butte area is characterized by steep-walled canyons and flat-topped buttes, mesas and ridges. The elevations within the claim area vary from over 6800 feet, along the Orange Cliffs, to less than 6000 feet. Refer to topographic map (in pocket) for details.

Water is scarce, but obtainable from several springs in the general area.

The Colorado River, at its nearest point, in located about 4 1/2 miles southeast of the property.

D. Geologic Setting

The rocks exposed within the claim area are shown on Plate I (front cover). Five consolidated sedimentary formations outcrop, the oldest being represented by the Moenkopi of Triassic age, composed dominently of silty sandstone and shale with some conglomerate and numerous thin beds of grey to red-brown ledge-forming sandstone.

The Shinarump conglomerate, or its lateral equivalent, overlying the Moenkopi formation, is classified in the upper Triassic series. It is a cliff- and bench-forming unit within the claim area, and its thickness varies from 60 to 130 feet.

Observations made on the property show that the Shinarump is composed of sandstone, conglomerate lenses and grey to red shale. Evidence of the presence of paleochannels, developed in the underlying Moenkopi, was also observed.

The Chinle formation of Triassic age, overlying the Shinarump, develops the slopes to the base of the Wingate formation, and is composed principally of varigated shale with interbedded sandstone and subordinate conglomeratic sandstone lenses, which may carry mineralization. The slopes of the Chinle formation are covered in places with a mantle of debris which has fallen from the cliffs above them; these cliffs are formed by the Wingate and younger formations. Fossil wood is abundant in this formation.

The thickness of the Chinle is estimated at 300 feet.

The contact of the Chinle with the overlying Wingate of Triassic age is sharp and marks an abrupt change in lithology. The Wingate formation forms nearly vertical cliffs throughout the claim area and is represented by brownish-red, massive, cross-bedded sandstone of approximately 300 feet in thickness.

Above the Wingate occurs the Kayenta formation of Jurassic age which is composed of sandstone with some interbedded shale and conglomerate.

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

E. Structure

The regional dip of the formations in this area varies from 1 to 3 degrees west, although locally an increase in this range may be expected.

An east-west graben fault block, with a vertical displacement of about 50 feet, traverses the northern part of the Butte Group of claims.

F. Mineralization

The mineralization observed on the claim groups may be described as follows:

(a) Gunsite Butte Group

A bulldozed outcrop on Claim No. 4 (refer to accompanying map for location) situated approximately 100 feet north of the northernmost fault of the Gunsite Butte graben, and positioned stratigraphically at the base of the Shinarump formation, showed a carbonaceous zone which forms a continuous horizontal bed or layer of about 6 inches in thickness. Stripping indicated that this carbonaceous layer extends at least 50 feet back from the outcrop. A radiometric count of 6 times background was obtained in this zone.

This mineralized zone is overlain by a grayish conglomerate bed and underlain by a yellow to brown siltstone.

No mineralization was observed along the faults, and the existing mineralization does not appear to be controlled by the faulting.

In the vicinity of Claim No. 18 of this same group, an outcrop of Shinarump conglomerate, located in a probable channel, was observed, and a radiometric reading at this point gave a count of 3 times background. Stratigraphically, this outcrop occurs approximately 75 feet above the Moenkopi contact, in a host rock of sandy conglomerate overlain and underlain by a light-red shale.

On Claim No. 8 of this group a mineralized outcrop similar to that found on Claim No. 4 was inspected, but radiometric readings indicated low mineralization only.

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The Shinarump formation in this area thins to about 100 feet as compared to 150 feet on the Gunsite Butte Group. A mineralized outcrop, probably representing secondary deposition, on Claim No. 11 was present in a grey to yellow shale. Carbonaceous material was observed but not as a continuous horizontal bed, and no radiometric readings were obtained here.

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Salt Lake City, Utah.

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A. Objective

The objective of the exploratory program is the discovery of uranium ore.

B. Proposed work

The work proposed under the program would consist of the following:

(a) A detailed radiometric and geologic survey of the outcropping Chinle and Shinarump formations.

(b) Bulldozing of favorable outcrops to determine extensions of mineralized zones.

(c) Bulldozing of existing access roads to permit transport of drilling equipment and to provide drilling locations.

(d) Drilling of areas behind outcrops where mineralization and structural conditions are favorable.

At this stage, therefore, it is difficult to plan an overall program of exploration which would meet with DMEA specifications, and, for this reason, it is proposed to outline the costs of a general program which may be used as a basis of negotiations between ourselves and your agency.

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Costs for the project have been estimated on 10,000 feet of drilling over a three-months period.

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	$29,500	$29,500
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(a) Common labor 1 man @ $400 per month ($400 x 3)	$ 1,200	
(b) Geologist ($600 per month x 3)	1,800	
(c) Consultants (geology)	1,000	
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Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

Summary of Estimated Costs

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(5)	Miscellaneous	1,000
		$38,000
(6)	Add 10% Contingencies	3,800
	TOTAL ESTIMATED COSTS	$41,800

VI. OPERATING EXPERIENCE AND BACKGROUND OF APPLICANT

The backgrounds of the Directors of the company are as follows:

Leslie J. Fyans-President.

Claude Lacy-Vice President, resides at Wellington, Carbon County, Utah, where he is engaged in the occupation of coal mining.

Milton V. Backman-Secretary.

Nick M. Vrontikis-Treasurer, resides at 1968 South State Street, Salt Lake City, Utah. He served in the U. S. Army from 1943 through 1946 and was graduated from the University of Utah School of Business in 1947. From 1948 through 1950 he was employed as a salesman at Bradley-Badger Company. From 1951 to date he has served as President of Vrontikis Bros. Appliance Dealers and is co-owner of Nick and Pete's Used Cars in Salt Lake City, Utah.

Wiley L. Ludwig-Director, resides at 1400 South 15th East, Salt Lake City, Utah. From 1942 through 1948 he served as building superintendent for the Salt Lake City Branch Federal Reserve Bank. From 1949 to date he has been employed as a salesman for Investors Diversified Services, Inc., Salt Lake City, Utah.

J. C. Cardall-Director, resides at 379 "K" Street, Salt Lake City, Utah. From 1943 to 1948 he was employed as manager of Firestone Stores, Logan, Utah, and he has been employed for the past several years as salesman and manager of Bradley-Badger Company stores in Ogden and Salt Lake City, Utah.

Clint Brown-Director.

B. Leland Tanner-Director.

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah.

OPERATING EXPERIENCE AND BACKGROUND OF APPLICANT

The applicants have appointed Mr. John Q. St. Clair, Mining Geologist, Grand Junction, Colorado to act as their adviser and consultant for work under this program. His background and operating experience is as follows:

Education:	University of Minnesota University of Oklahoma B. S. Geology, 1934 (Phi Beta Kappa)
1924 - 1934	Experience as diamond drill runner and diamond setter and superintendent of drilling operations.
1934 - 1935	Superintendent of Diamond Drilling, East African Goldfields, Ltd., Lupa Goldfield, Tanganyika, East Africa.
1936 - 1939	Consultant on Exploration and Diamond Drilling for New Consolidated Gold Fields, Ltd., Nigel Gold Mining Company, Ltd., South Roodepoort Main Reef Areas, Ltd., and other companies on the Rand, South Africa.
1939 - 1945	(Except for one and one-half years in the armed forces) Director of Research, New Consolidated Gold Fields - Boart Products Diamond Research Laboratory, Johannesburg; also Superintendent of Diamond Drilling Operations, New Consolidated Gold Fields, Ltd.
1945 - 1948	Manager, Boart Products, South Africa, Ltd., and Director, South African Diamond Crowns, Ltd., Johannesburg.
1948 - 1951	Licenced Diamond Dealer, Johannesburg; also Director, St. Clair Exploration Company (Pty) Ltd.
1951 - 1954	Consulting Mining Geologist

Gunsite Butte Uranium Corp.,
26 West Broadway,
Salt Lake City, Utah

APPENDIX

QUIT CLAIM DEED

BOOK 64 PAGE 443

JAMES F. SEALS

Grantor, of Wellington, Utah

hereby QUIT CLAIM to GUNSITE BUTTE URANIUM CORPORATION, a Utah corporation

Grantee, of 26 West Broadway, Salt Lake City, Utah
Street Address City County State

for the sum of One Dollar and other valuable considerations DOLLARS

the following described tract of land in Garfield County County, State of Utah, to-wit: Those certain mining claims named as follows:

BUTTE No.'s 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20, all located in the Orange Cliffs area, notices of location recorded in the office of the Garfield County Recorder, Book 37, Pages 476 to 495 and Book 51, Pages 184 to 203 inclusive.

FOSSIL No.'s 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, all located in the Orange Cliffs area, notices of location recorded in the office of the Garfield County Recorder, Book 38, pages 21 to 40, and Book 51, pages 164 to 183 inclusive.

LIZARD No.'s 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20, all located in the Orange Clifs area, notices of location recorded in the office of the Garfield County Recorder, Book 38, pages 1 to 20, and Book 51, pages 144 to 163, inclusive.

WITNESS THE HAND of said Grantor this 15th day of February, A. D. 1955.

Signed in the presence of
Nancy R. Smith
Pauline M. Huckins

X James F. Seals
James F. Seals

STATE OF UTAH,
County of Tooele } ss.

On the 15th day of February, A. D. 1955, personally appeared before me, a Notary Public in and for the State of Utah, JAMES F. SEALS

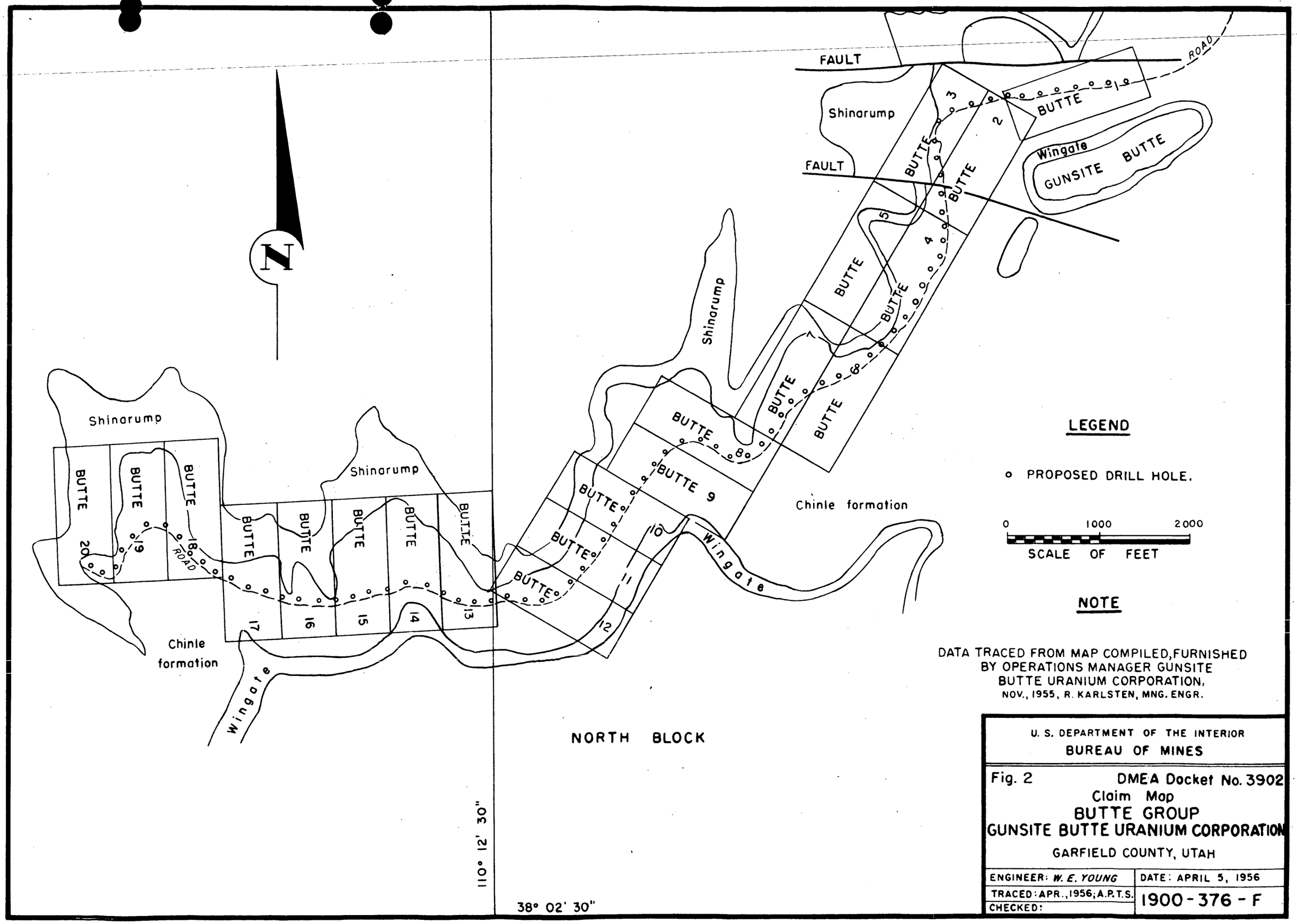
the signer of the above instrument, who duly acknowledged to me that he executed the same.

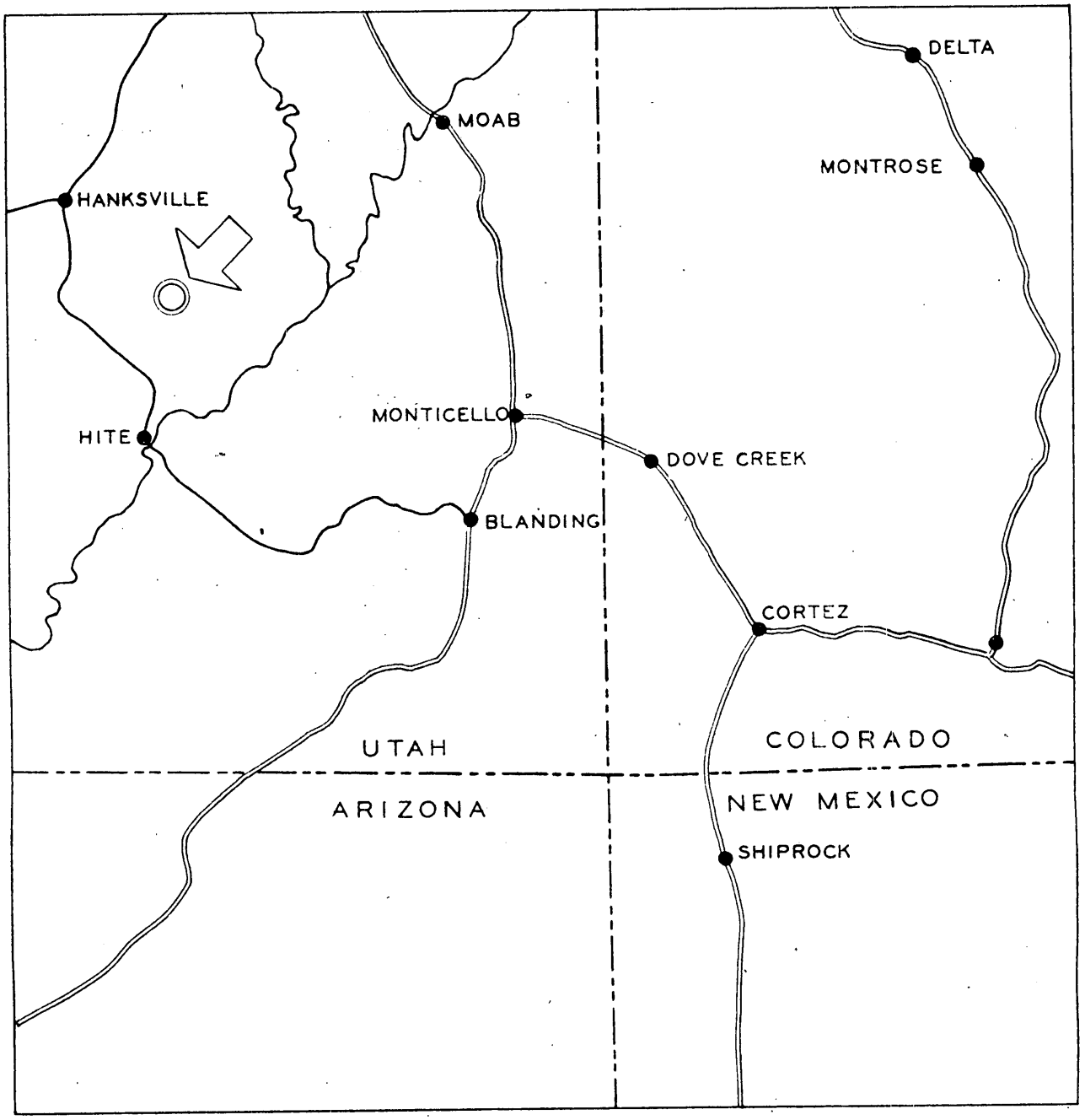
Neal N. Reid
Notary Public

My commission expires 12 Mar 1958 Residing at Tooele, Utah

STANDARD SUPPLY CO., PROVO, UTAH

RECORDED February 23 1955 AT 9 A.M.
AT REQUEST OF Allen B. Sorensen
Mildred Nuss COUNTY RECORDER


N
FAULT
ROAD
Shinarump
BUTTE
Wingate
GUNSITE BUTTE
FAULT
Shinarump
Chinle formation
Wingate
NORTH BLOCK
110° 12' 30"
38° 02' 30"
LEGEND
PROPOSED DRILL HOLE.
0 1000 2000
SCALE OF FEET
NOTE
DATA TRACED FROM MAP COMPILED, FURNISHED BY OPERATIONS MANAGER GUNSITE BUTTE URANIUM CORPORATION.
NOV., 1955, R. KARLSTEN, MNG. ENGR.
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Fig. 2
DMEA Docket No. 3902
Claim Map
BUTTE GROUP
GUNSITE BUTTE URANIUM CORPORATION
GARFIELD COUNTY, UTAH
ENGINEER: W. E. YOUNG
DATE: APRIL 5, 1956
TRACED: APR., 1956; A.P.T.S.
CHECKED:
1900-376-F

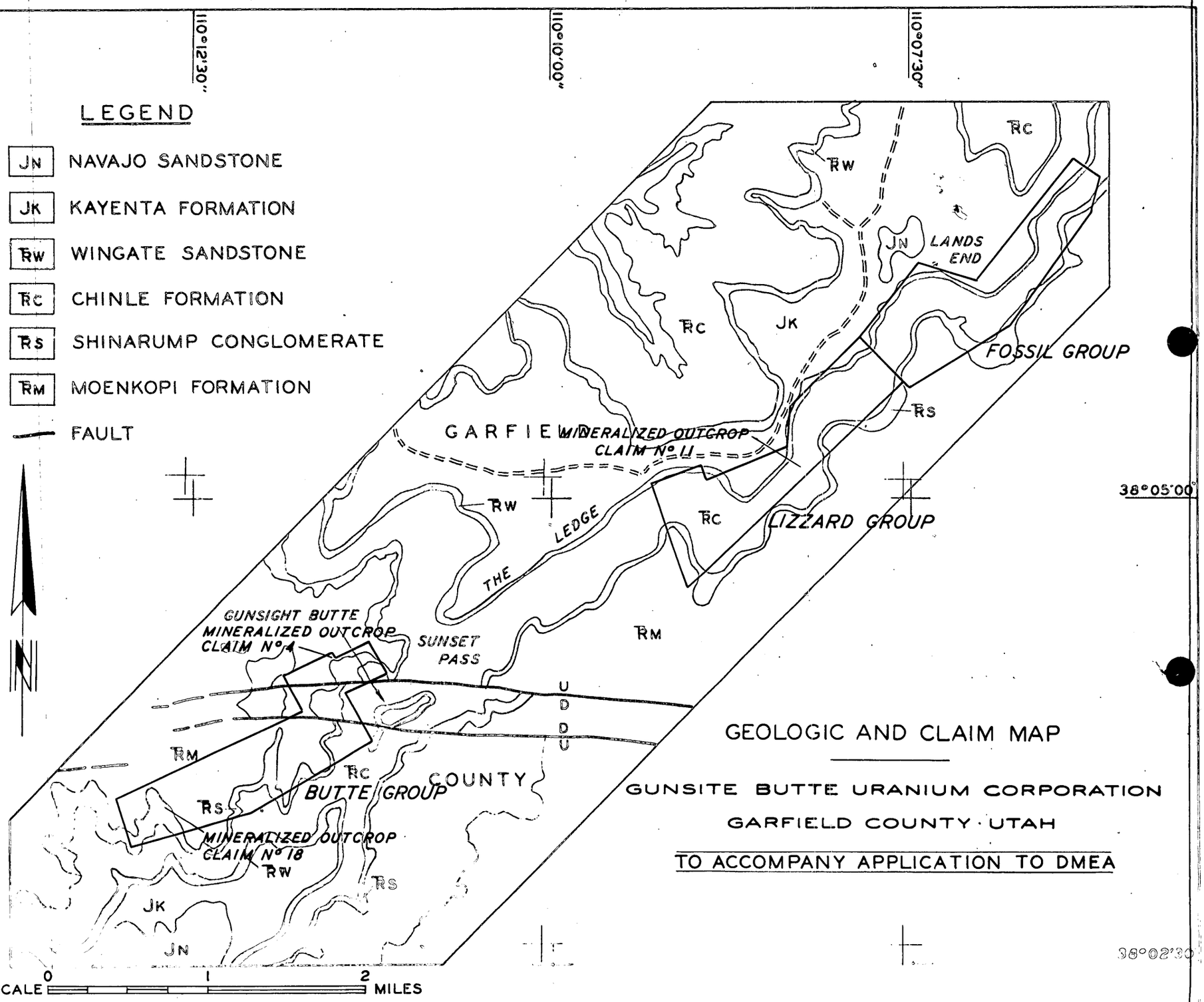


LOCATION MAP SHOWING PROPERTIES OF

GUNSITE BUTTE URANIUM CORPORATION

GARFIELD COUNTY · UTAH

SCALE 0 25 50 MILES



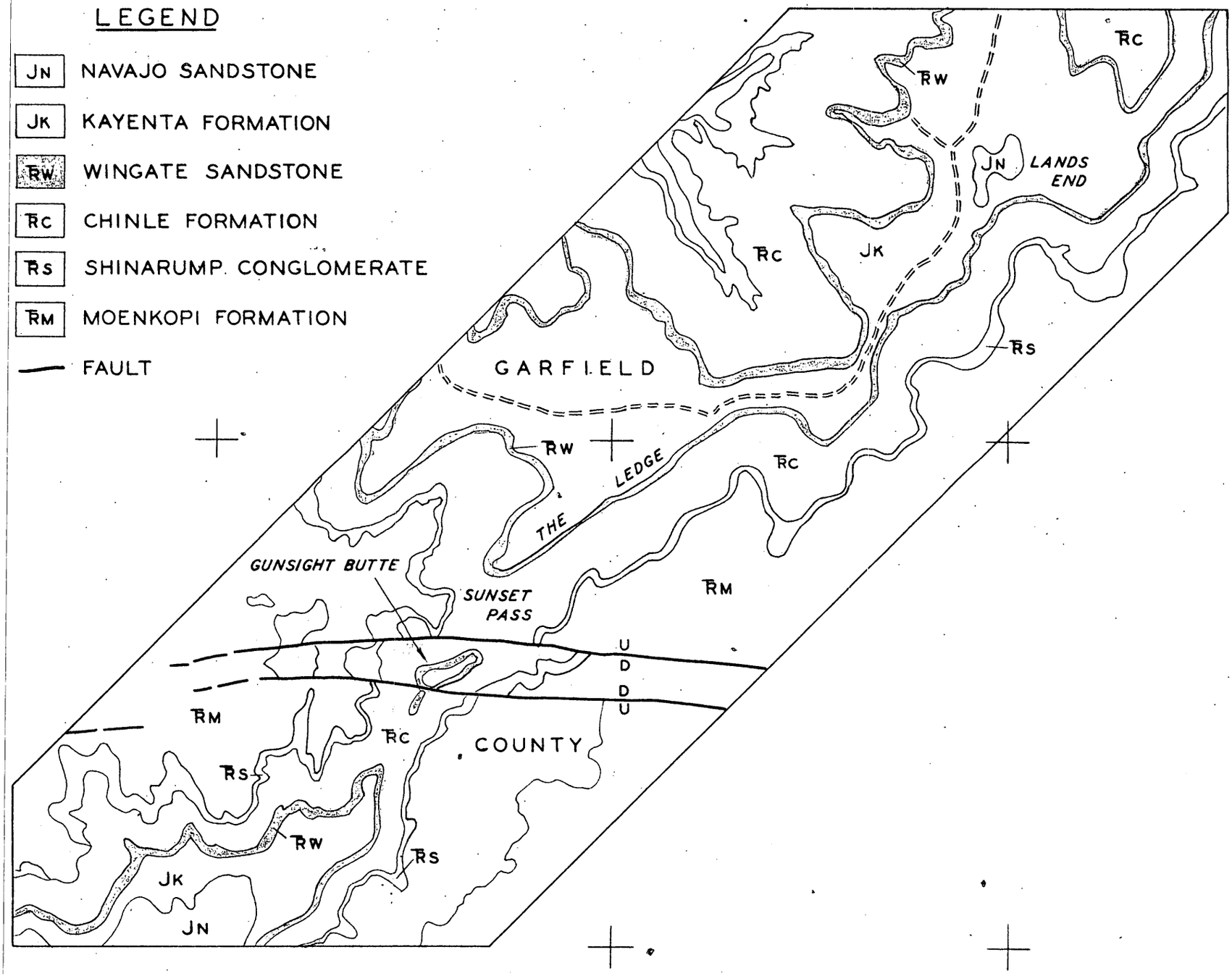
GEOLOGIC AND CLAIM MAP

GUNSITE BUTTE URANIUM CORPORATION

GARFIELD COUNTY · UTAH

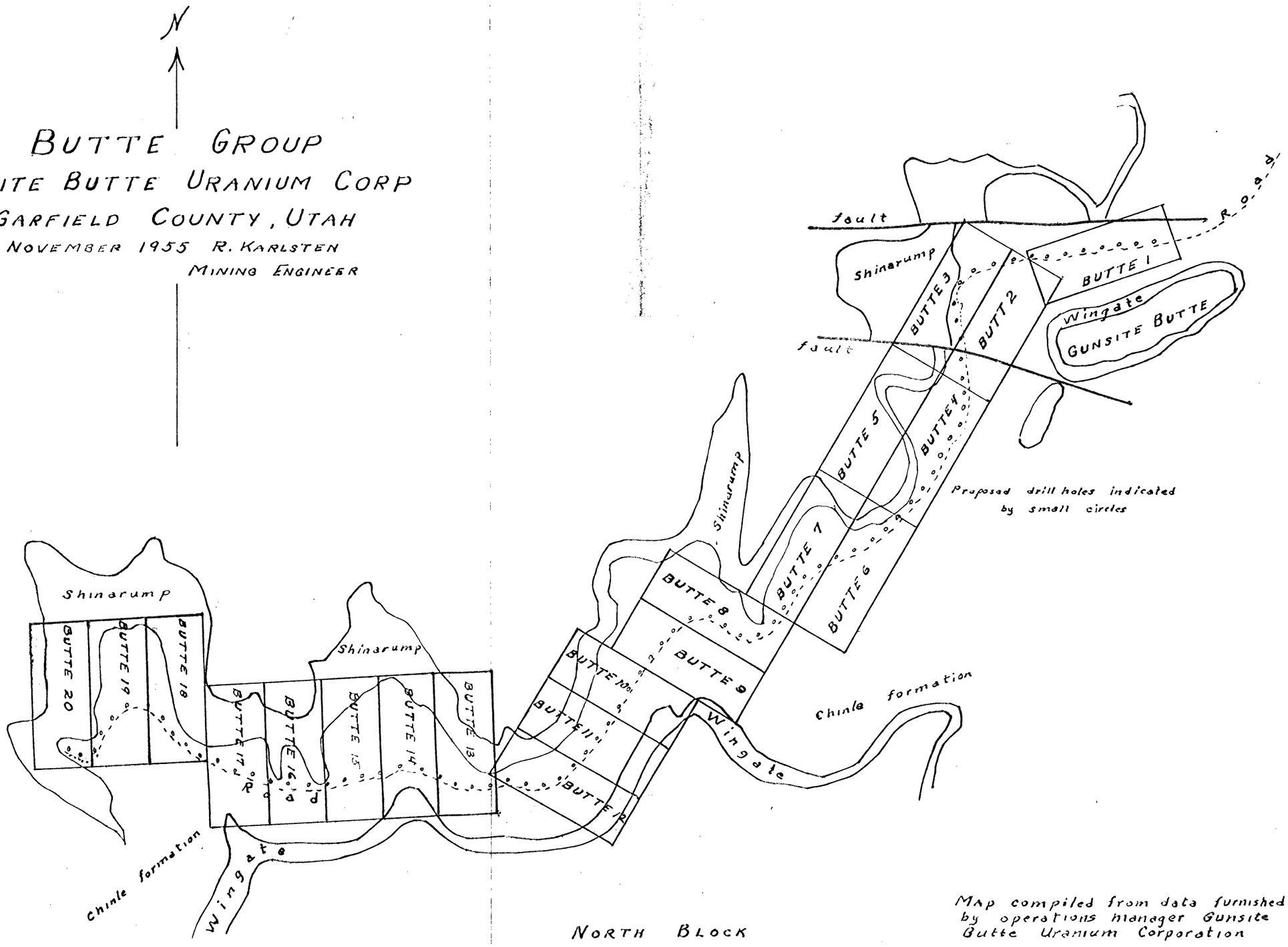
TO ACCOMPANY APPLICATION TO DMEA

PLATE I


110°12'30"
110°10'00"
110°07'30"
LEGEND
JN NAVAJO SANDSTONE
JK KAYENTA FORMATION
ŦW WINGATE SANDSTONE
ŦC CHINLE FORMATION
ŦS SHINARUMP CONGLOMERATE
ŦM MOENKOPI FORMATION
FAULT
GARFIELD
COUNTY
LANDS END
THE LEDGE
GUNSIGHT BUTTE
SUNSET PASS
U
D
D
U
38°05'00"
38°02'30"

BUTTE GROUP
GUNSITE BUTTE URANIUM CORP
GARFIELD COUNTY, UTAH

NOVEMBER 1955 R. KARLSTEN
MINING ENGINEER



Map compiled from data furnished by operations manager Gunsite Butte Uranium Corporation

NORTH BLOCK

110° 12' 30"

38° 02' 30"

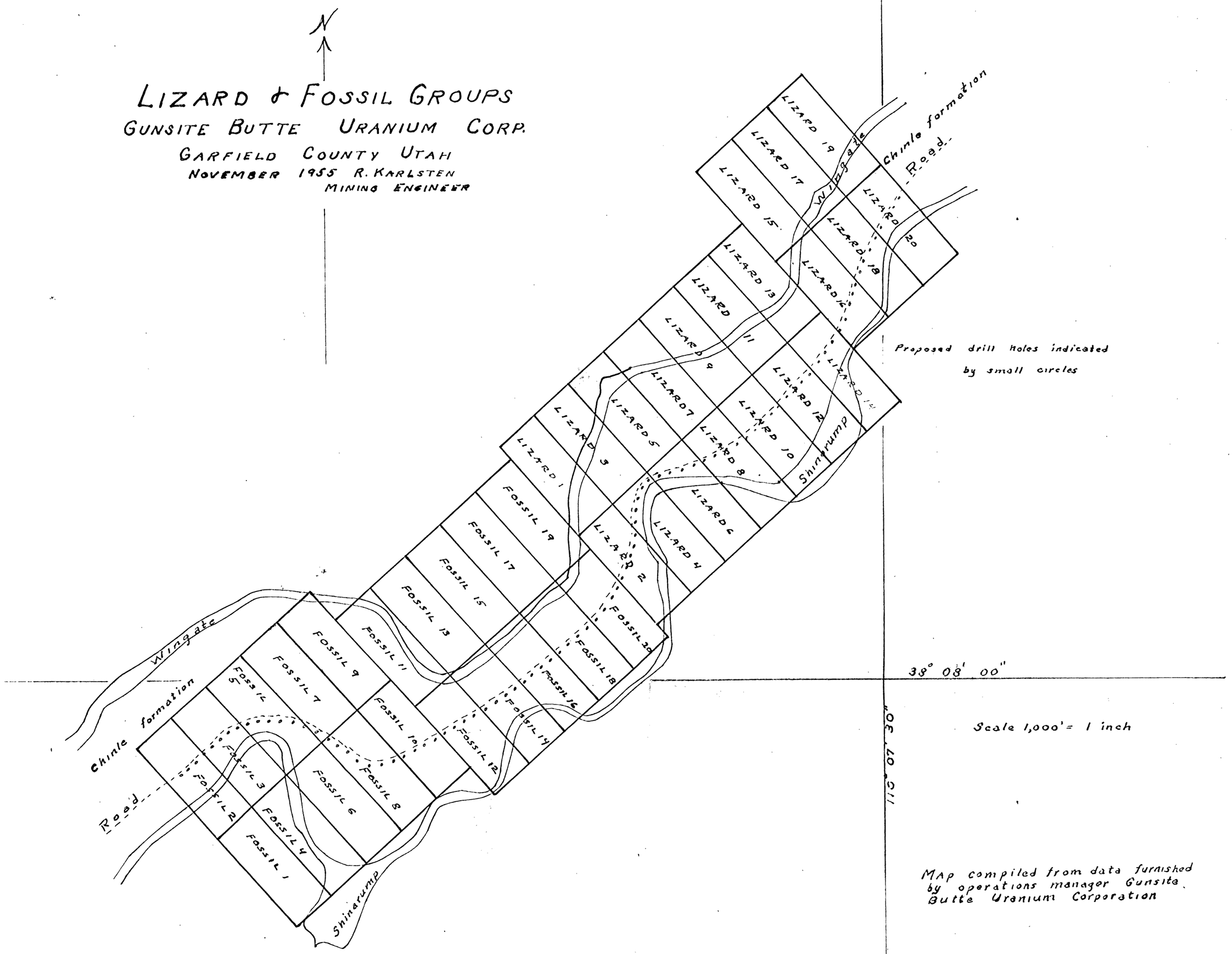
Scale 1,000' = 1 inch

LIZARD & FOSSIL GROUPS

GUNSITE BUTTE URANIUM CORP.

GARFIELD COUNTY UTAH

NOVEMBER 1955 R. KARLSTEN
MINING ENGINEER



Proposed drill holes indicated by small circles

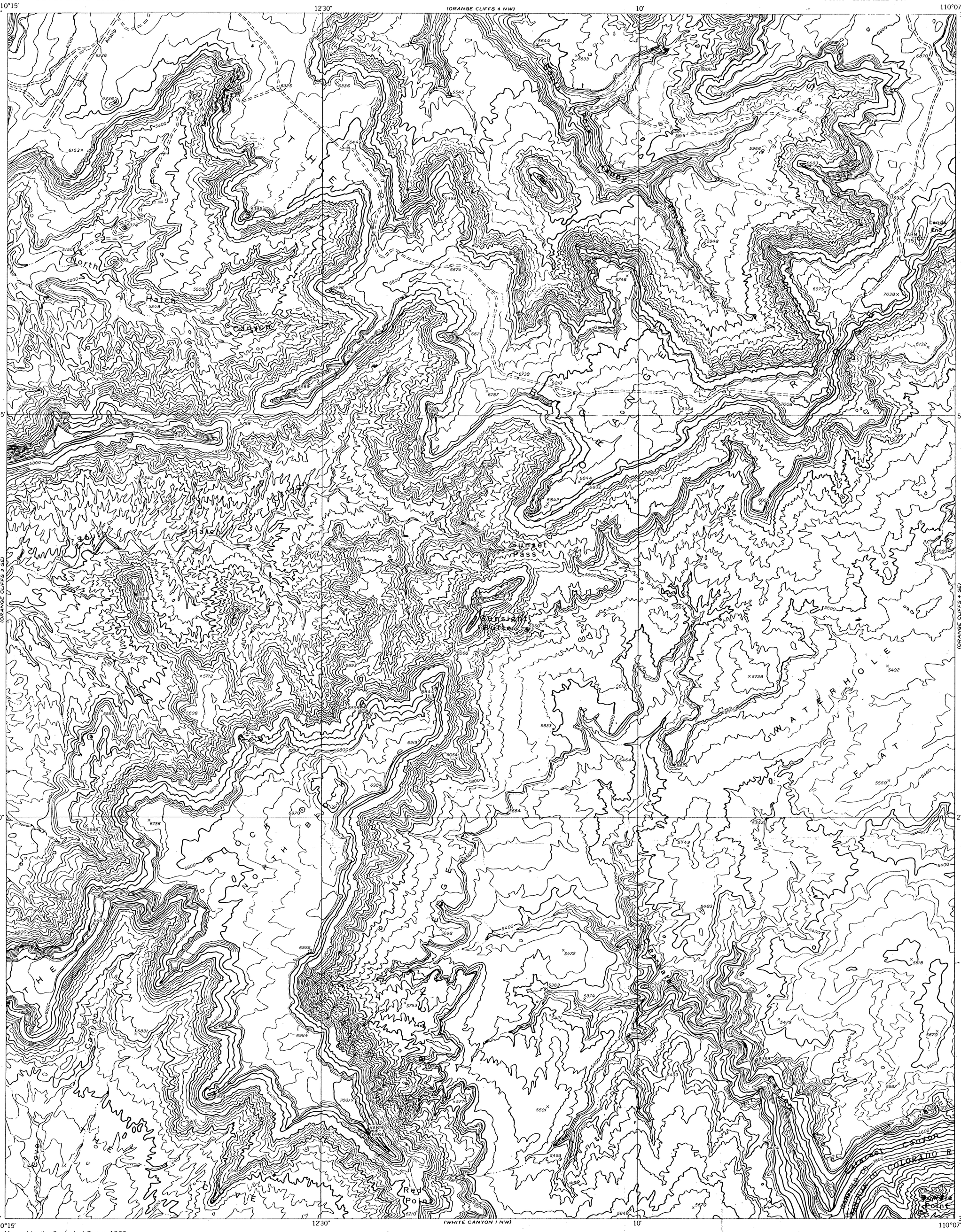
Scale 1,000' = 1 inch

MAP compiled from data furnished by operations manager Gunsite Butte Uranium Corporation

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Preliminary edition
Pending completion of 1:62,500 scale
15 minute maps covering this area

ORANGE CLIFFS 4 SW QUADRANGLE
UTAH—GARFIELD CO.



Mapped by the Geological Survey 1953

Topography by multiplex methods from aerial photographs taken 1952

15°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1954

SCALE 1:24000

1 ½ 0 1 MILE

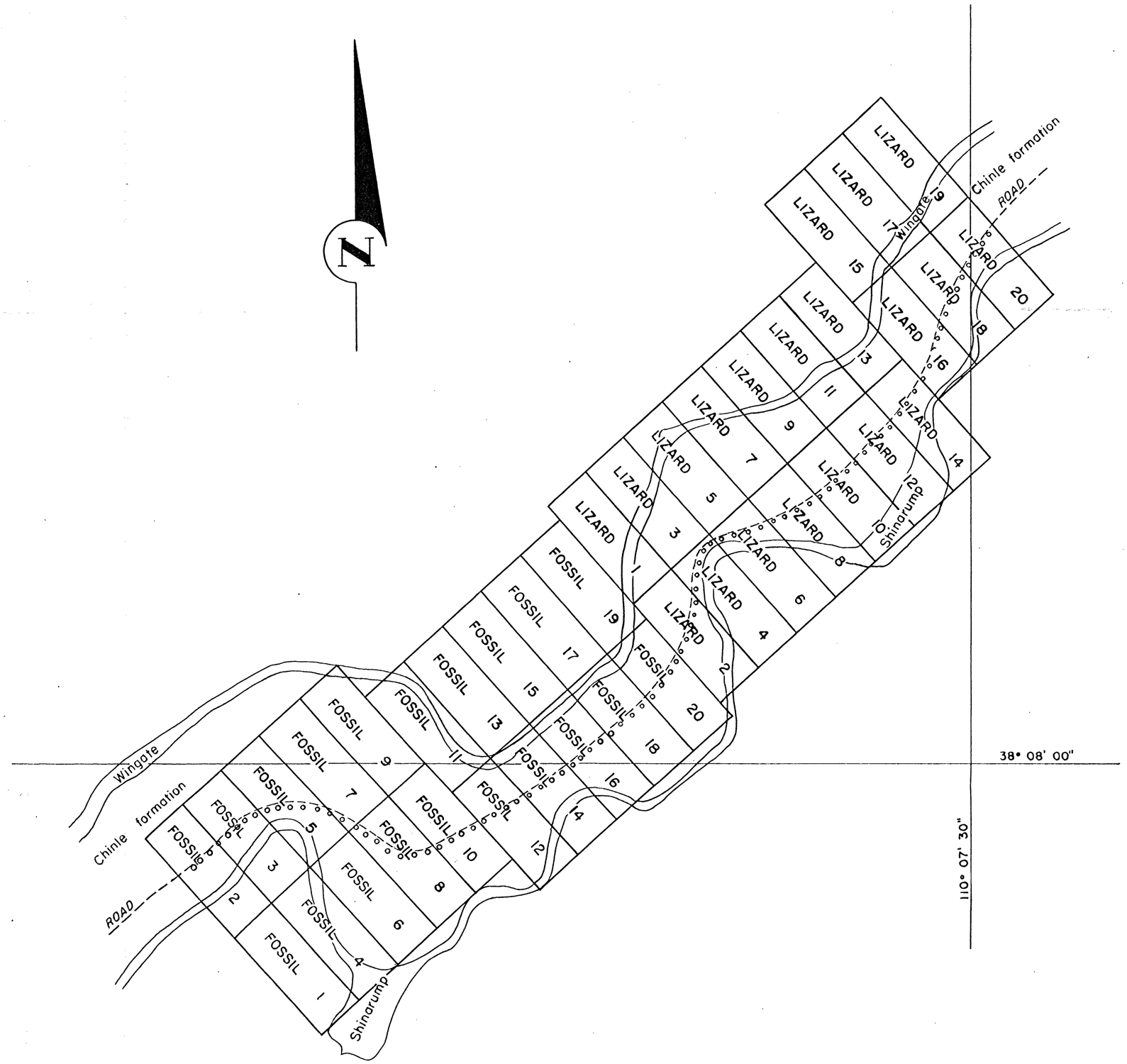
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Improved — Unimproved - - -

ORANGE CLIFFS 4 SW, UTAH
N3800—W11007.5/7.5



LEGEND

○ PROPOSED DRILL HOLE.

NOTE

DATA TRACED FROM MAP COMPILED, FURNISHED BY OPERATIONS MANAGER GUNSITE BUTTE URANIUM CORPORATION.
NOV., 1955, R. KARLSTEN, MNG. ENGR.

0 1000 2000 3000
SCALE OF FEET

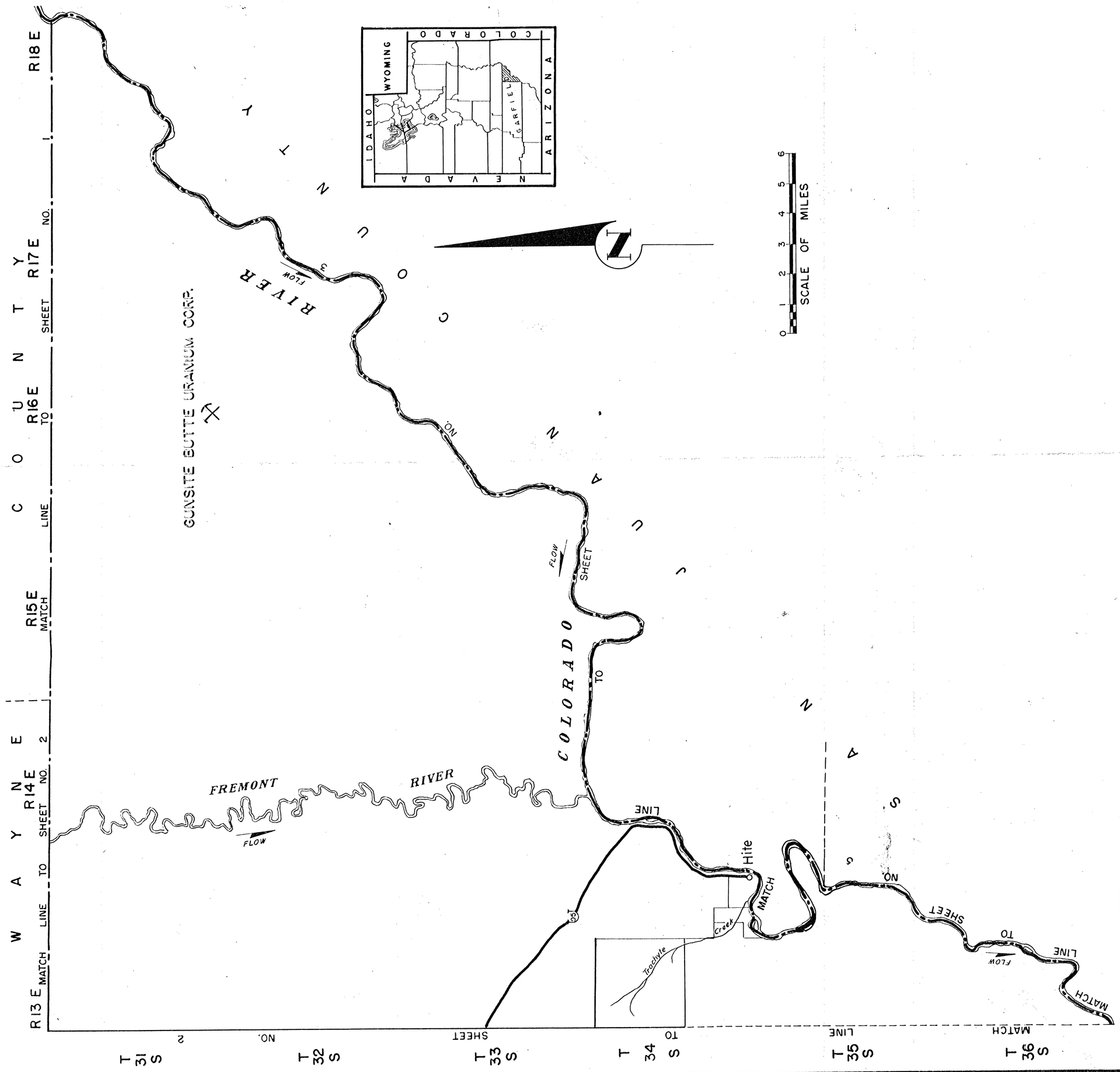
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 3 DMEA Docket No. 3902

Claim Map

LIZARD & FOSSIL GROUPS
GUNSITE BUTTE URANIUM CORPORATION
GARFIELD COUNTY, UTAH

ENGINEER: *W. E. YOUNG*	DATE: APRIL 6, 1956
TRACED: APR., 1956; BY: A. P. T. S.	1900 - 377 - E
CHECKED:	



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3902

STATE: UTAH

COUNTY: GARFIELD

Sheet 1 of 5
Location Map

ENGINEER: W.E. YOUNG	DATE: APRIL 13, 1956
TRACED: APR., 1956; BY: A.P.T.S.	1900-375-D
CHECKED:	