[redacted]urname Copy

A.G. Keating
Ellis
Yost
Kulsgaard
Selfridge

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

AUG 31 1955

Mr. Franklin K. Getscher
314 California Building
Denver 2, Colorado

Re: Docket No. DMEA-3820 (Uranium)
Brushy Basin claims
San Juan County, Utah

Dear Mr. Getscher:

Your application for aid in an exploration project and other data available to us in Washington concerning the above-named property have been reviewed.

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

Careful study of all our information indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that 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,

C. O. Mittendorf (for)

Administrator

AGKeating:ai
8/22/55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J.E.Crawford, Rm. 3641
T.H.Kiilsgaard, Rm. 5222
J.O.Hosted, Rm. 3210, GSA
Code 700
Mr. Keating
DMEA Field Team, Region III (2)

R.C.S.

(Docket Copy)
A. J. Hosting
Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.

August 30, 1955

Summary of Proposed Project

Subject: Denial of application for an exploration project

Docket No.: DMEA-3820

Commodity: Uranium

Applicant: Franklin K. Getscher
314 California Building
Denver, Colorado
Brushy Basin claims
San Juan County, Utah

Property: 20 unpatented mining claims (Brushy Basin No. 26, 28, 32, 30, 34, 46, 48, 50, 52, 54, 64, 66, 68, 100, 102, 116, 118, 120, 122, 124 located in Sections 30 and 31, T. 35 S., R. 22 E., and Sections 1, 11 and 12, T. 35 S., R. 21 E., S.L.P.M., recorded in Book 131, Pages 20 to 24 and Book 157, Pages 175 to 199, County of San Juan, State of Utah.)

(The applicant states in the application that he is the owner, but the examining engineers report the property is leased from Dale Campbell who located them in July and August, 1954.)

Date of Application: May 4, 1955

Amount of Application: $52,220.00

Work Proposed and Estimated Costs:

1st phase	10,500 feet of diamond drilling	$28,875.00
2nd phase	5,880 feet of diamond drilling	16,170.00
3rd phase	1,260 feet of diamond drilling	3,465.00
Bulldozing for access roads and drilling sites for 168 holes		3,360.00
Blasting for roads		350.00
Total estimated costs		$52,220.00
Government participation @ 75 percent		$39,165.00

Field Team Report: Received August 17, 1955 - Field Examination, June 21, 1955, W. D. McMillan, U.S.B.M. - Howard F. Albee, U.S.G.S.

There has been no production from the property. A favorable zone of Salt Wash sandstone some 5 miles south of the project group of claims was outlined by AEC drilling, but this zone becomes less favorable as it is traversed to the north and does not enter the applicant's property.

The points of high radioactivity shown on the applicant's maps were not confirmed by the examiners nor could the ore outcrops shown on these maps be found except for a two to ten-inch mudstone seam in the Salt Wash sandstone member. This mudstone contains carbonaceous material of ore grade but is unimportant in respect to ore reserves.

No uranium mineralization was found in the Salt Wash sandstone member and targets in the mudstone seam were too small to be given consideration.

The probability of finding ore grade uranium deposits is unfavorable, and it is recommended that the application be denied.

Commodity Committee Members' Comments:

U. S. Geological Survey - W. P. Williams

"The examining team, in brief reports, recommends that the subject application be denied because of unfavorable geologic conditions and because favorable ground delineated by AEC drilling south of the claims does not include the subject property.

"My own recollections of the thin-bedded nature of the sandstones and the generally unfavorable nature of the shales and mudstones in the general vicinity of the claims lead me to concur with the recommendations for denial."

U. S. Bureau of Mines - J. E. Crawford

"I have reviewed the report of examination of the Field Team, Franklin K. Getscher, DMEA Docket 3820; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

"We concur with the Field Team in their recommendation that the application be denied."

Rare and Miscellaneous Metals Division -
A. G. Keating - August 29, 1955

The evidence indicates that a favorable zone of the Salt Wash sandstone does not enter the project property and that spots of high radioactivity reported by the applicant could not be confirmed. While a small mudstone seam contained material of ore grade it could not be considered of importance. This Division concurs with the opinions of the Field Team and the Washington Commodity members that the subject application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis
Rare and Miscellaneous
Metals Division

8/25/55 gla

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

RECEIVED
AUG 2 1955

August 25, 1955

Memorandum

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

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee, Room 3643

Subject: Report of Examination, DMEA Docket 3820, Franklin K. Getscher, Brushy Basin Group, San Juan County, Utah

I have reviewed the report of examination of the Field Team, Franklin K. Getscher, DMEA Docket 3820; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the Field Team in their recommendation that the application be denied.

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

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

RECEIVED
AUG 25 1955

August 25, 1955

Memorandum

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

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee, Room 3643

Subject: Report of Examination, DMEA Docket 3820, Franklin K. Getscher, Brushy Basin Group, San Juan County, Utah

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We concur with the Field Team in their recommendation that the application be denied.

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

John E. Crawford

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

RECEIVED
AUG 2 - 1955

August 25, 1955

Memorandum

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

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee, Room 3643

Subject: Report of Examination, DMEA Docket 3820, Franklin K. Getscher, Brushy Basin Group, San Juan County, Utah

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We concur with the Field Team in their recommendation that the application be denied.

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

John E. Crawford

IN REPLY REFER TO:

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

August 25, 1955

Memorandum

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

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

Subject: Review of Field Examination Report, DMEA Docket No. 3820, Franklin K. Getscher, Brushy Basin claim group, San Juan County, Utah.

The examining team, in brief reports, recommends that the subject application be denied because of unfavorable geologic conditions and because favorable ground delineated by AEC drilling south of the claims does not include the subject property.

My own recollections of the thin-bedded nature of the sandstones and the generally unfavorable nature of the shales and mudstones in the general vicinity of the claims lead me to concur with the recommendations for denial.

B H Lilegaard
For: W. P. Williams

IN REPLY REFER TO:

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

August 25, 1955

Memorandum

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

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

Subject: Review of Field Examination Report, DMEA Docket No. 3680, Franklin K. Getscher, Brushy Basin claim group, San Juan County, Utah.

The examining team, in brief reports, recommends that the subject application be denied because of unfavorable geologic conditions and because favorable ground delineated by AEC drilling south of the claims does not include the subject property.

My own recollections of the thin-bedded nature of the sandstones and the generally unfavorable nature of the shales and mudstones in the general vicinity of the claims lead me to concur with the recommendations for denial.

W. P. Williams

WPWilliams:iml
G-8/25/55

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

IN REPLY REFER TO:

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

August 25, 1955

Memorandum

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

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

Subject: Review of Field Examination Report, DMEA Docket No. 3620, Franklin K. Getscher, Brushy Basin claim group, San Juan County, Utah.

The examining team, in brief reports, recommends that the subject application be denied because of unfavorable geologic conditions and because favorable ground delineated by AEC drilling south of the claims does not include the subject property.

My own recollections of the thin-bedded nature of the sandstones and the generally unfavorable nature of the shales and mudstones in the general vicinity of the claims lead me to concur with the recommendations for denial.

W. P. Williams

WPWilliams:iml
G-8/25/55

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

IN REPLY REFER TO:

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

August 25, 1955

Memorandum

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

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

Subject: Review of Field Examination Report, DMEA Docket No. 3680, Franklin K. Setscher, Brushy Basin claim group, San Juan County, Utah.

The examining team, in brief reports, recommends that the subject application be denied because of unfavorable geologic conditions and because favorable ground delineated by AEC drilling south of the claims does not include the subject property.

My own recollections of the thin-bedded nature of the sandstones and the generally unfavorable nature of the shales and mudstones in the general vicinity of the claims lead me to concur with the recommendations for denial.

W. P. Williams

WPWilliams:iml
G-8/25/55

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

8/23/55 gla

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

August 15, 1955

224 New Customhouse
Denver 2, Colorado

RECEIVED
AUG 17 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Report of Examination, DMEA Docket 3820 (Uranium)
Franklin K. Getscher, Brushy Basin Group,
San Juan County, Utah

Enclosed are the original and three copies of the report pertaining to the above application.

We concur with the recommendation of the field examiners that the application for exploration assistance be denied.

Field Team Region III

W. M. Traver

E. N. Harshman

Reviewed by
DMEA OPERATING COMMITTEE
8-22-55
(date)

TRANSMITTED
AUG 15 1955

DMEA
Rec'd.
AUG 1 7 1955
BUREAU OF MINES
Denver, Colorado

RECEIVED
AUG 17 1955

Building 20
Denver Federal Center
Denver 2, Colorado
August 12, 1955

Region III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: Docket No. DMEA 3820, Brushy Basin Claim Group, Franklin K. Getscher, San Juan County, Utah (Uranium)

Enclosed are the original and ten copies of a Joint Summary, Conclusions and Recommendations by W. D. McMillan, Mining Engineer, and Howard F. Albee, Geologist and the original and ten copies of an Engineering Report by W. D. McMillan, Mining Engineer, covering Docket No. DMEA 3820.

Franklin K. Getscher applied for exploration assistance in the amount of $52,220.00 to explore the Brushy Basin Claim Group, San Juan County, Utah by 17,640 feet of drilling.

The field examination was made on June 21, 1955. The examining team concluded that there was little possibility of finding a significant amount of Uranium on the property. It is recommended that the application be denied.

John F. Shaw
John F. Shaw
Supervising Mining Engineer

JFS:jw

cc: 10/w orig. ✓
ENHarshman
DMEA 3820
Chron.

Reviewed by
DMEA OPERATING COMMITTEE
8-22-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3820

Brushy Basin Claim Group

Franklin K. Getscher

Blanding Mining District

San Juan County, Utah

Uranium

By

W. D. McMillan
Mining Engineer
Bureau of Mines

Howard F. Albee
Geologist
Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
8-22-55
(date)

DMEA 3820

BRUSHY BASIN CLAIM GROUP
FRANKLIN K. GETSCHER
BLANDING MINING DISTRICT
SAN JUAN COUNTY, UTAH

Summary, Conclusions, and Recommendations

Reviewed by
DMEA OPERATING COMMITTEE
8-22-55
(date)

By

W. D. McMillan
Mining Engineer
Bureau of Mines

Howard F. Albee
Geologist
Geological Survey

DMEA 3820

BRUSHY BASIN CLAIM GROUP
FRANKLIN K. GETSCHER
BLANDING MINING DISTRICT
SAN JUAN COUNTY, UTAH

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By W. D. McMillan and Howard Albee

Franklin K. Getscher has applied to the Defense Minerals Exploration Administration for Government assistance in exploration of the Brushy Basin uranium claims in San Juan County, Utah. The claims are leased from Dale Campbell who located them in July and August, 1954. The applicant proposed 168 holes with a total of 17,640 feet of drilling, at an estimated total cost of $52,220.00. Government participation at 75 percent would be $39,165.00.

A field examination was made on June 21, 1955, and information was obtained regarding the property from the U. S. Atomic Energy Commission.

The claims are on both sides of Brushy Basin Creek. The rocks exposed on these claims are the Jurassic Morrison formation consisting in ascending order of the Salt Wash sandstone member, the Westwater Canyon sandstone member, and the Brushy Basin shale member.

In the area of the Brushy Basin claim group the Salt Wash sandstone member is the only ore producing member.

The U. S. Atomic Energy Commission has proven a favorable belt in the Salt Wash sandstone member, about 5 miles south of the group and private interests have found uranium ore on a group of claims one mile south of the southern end of the Brushy Basin claims.

The applicants claims map showed many points of high radioactivity on most of the claims, and ore outcrops on the southern group. The only radioactive anomalies found by the examining team were in from two to ten inches at the base of second rim of the Salt Wash sandstone Member.

The probability of finding ore grade material in economic quantity is extremely poor.

The examining team recommends denial of application No.3820.

DMEA 3620

BRUSHY BASIN CLAIM GROUP
FRANKLIN K. GETSCHER
BLANDING MINING DISTRICT
SAN JUAN COUNTY, UTAH

Engineering Report

By W. D. McMillan
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE

(date)

DMEA 3820

BRUSHY BASIN CLAIM GROUP
FRANKLIN K. GETSCHER
BLANDING MINING DISTRICT
SAN JUAN COUNTY, UTAH

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Mining and Milling Equipment and other facilities	5
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Conclusions	5
Recommendations	5

ILLUSTRATIONS

Figure	Follows page
1. Location map, Franklin K. Getscher Property, Blanding Mining District, San Juan County, Utah	2

DMEA 3620

BRUSHY BASIN CLAIM GROUP
FRANKLIN K. GETSCHER
BLANDING MINING DISTRICT
SAN JUAN COUNTY, UTAH

ENGINEERING REPORT

By W. D. McMillan

INTRODUCTION

Franklin K. Getscher applied for Defense Minerals Exploration Administration assistance for exploration by diamond core drilling of his Brushy Basin Claim Group in the Blanding Mining District, San Juan County, Utah. The proposed work was for a first stage of 100 holes on a 500-foot pattern over the 20 claims; this to be followed, if favorable results were obtained, by a second stage of 56 holes at intervals of 100 to 200 feet around the first stage favorable holes; this to be followed by a third stage of 11 holes at close intervals. The estimated total amount of drilling was 17,640 feet at an estimated total cost of $52,220.00. Government participation at 75 percent would be $39,165.00.

An examination was made on June 22, 1955 by a Region III examining team consisting of W. D. McMillan of the Bureau of Mines, H. F. Albee and Carl Roach of the Geological Survey, accompanied by Franklin K. Getscher, the applicant.

This examination and information on the district from the U. S. Atomic Energy Commission resulted in the examining team recommending denial of the application for the geological reasons given in this report.

ACKNOWLEDGMENTS

Data on the property was obtained by personal observation, from the geologic report submitted with the application, and from the experience of the Geological Survey members of the examining team in the area. Franklin Getscher was helpful in guiding the team over the claims.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Brushy Basin Claim Group consists of 20 claims located in Sections 30-31, T. 35 S., R. 22 E. and Sections 1, 11 and 12, T. 35 S., R. 21 E., Salt Lake Principal Meridian. The claims are the Brushy Basin 24, 28 32, 30, 34, 46, 48, 50, 52, 54, 64, 66, 68, 100, 102, 116, 118, 120, 122, 124. They are on cliffs and terraces on the west side of Brushy Basin Creek, and are reached by travelling Utah Highway 95 8.2 miles west from Blanding, Utah, thence northwesterly 2.6 miles over a graded road to a terrace on the east side of Brushy Basin Creek, thence by foot about 1/4 mile. The claims extend up and down Brushy Basin Creek for 3 miles.

Blanding, 10 miles east, and Monticello, 32 miles northeast are the nearest sources of supplies, as shown in Figure No. 1.

The claims are located on the western edge of the Great Sage Plain of Southeastern Utah, where canyons and gullies have cut below the plain. The elevation of the creek is about 6,050 feet, with a relief on both sides of about 200 feet, cut in places by steep gullies.

The vegetation consists of cacti, sage brush, native grasses and shrubs, and shrub pinons, pines and oak: The climate is semi-arid,

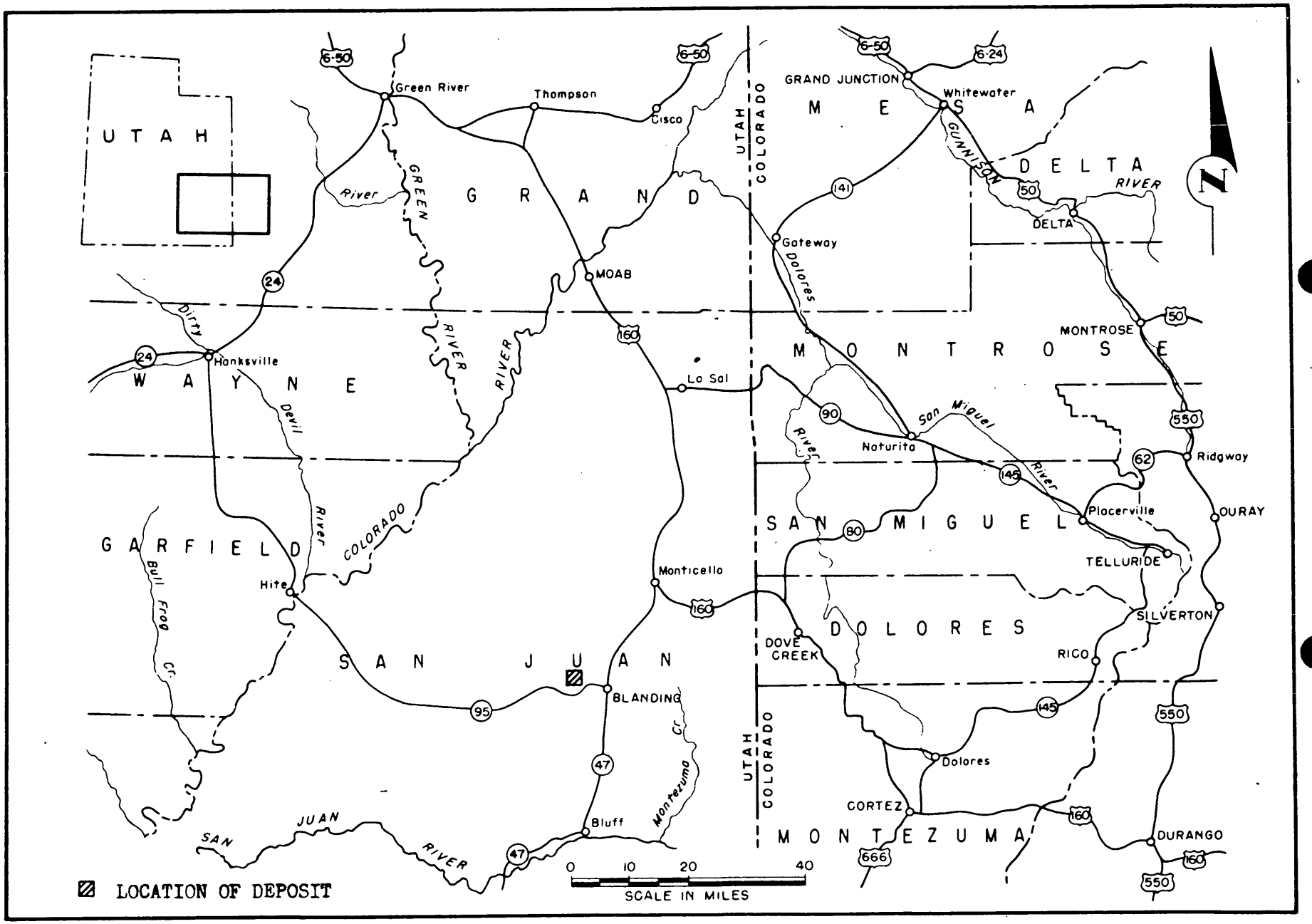


FIGURE 1 - LOCATION MAP, FRANKLIN K. GETSCHER, BRUSHY BASIN CLAIMS, BLANDING MINING DISTRICT, SAN JUAN COUNTY, UTAH. DMEA 3820

with heavy storms of short duration throughout the year, and some accumulations of snow during the winter months.

HISTORY, PRODUCTION AND OWNERSHIP

The history of the Blanding Mining district dates from exploration and exploitation of vanadium ores after World War I. In recent years several mines in Cottonwood Wash 5 miles southwest of the Brushy Basin claims have produced many thousands of tons of uranium-vanadium ore and are still producing. There has not been any production from the property to date. The Brushy Basin group of 75 claims were located by Dale Campbell during July and August 1954, and were recorded in the recorder's office, Monticello, Utah during July and August, 1954.

Franklin K. Getcher secured a lease on 20 of these claims, but did not submit a copy nor have it recorded.

An examination of the records at Monticello showed some descripancies as given below:

Brushy Basin Claims - DMEA 3820

Claim No.	Book No.	Page No.	Cert. No.	DATES Loc.	DATES Rec.
26	131	20	9336	7-8-54	7-15-54
28	131	21	9338	7-8-54	7-15-54
30	131	22	9340	7-8-54	7-15-54
32	131	23	9342	7-8-54	7-15-54
34	131	24	9344	7-8-54	7-15-54
46	157	175)	Book and pages,		
48	157	176)	Mining Deeds,		
50	157	177)	Reg. further check		
52	157	178)	if contract is		
54	157	179)	approved.		
64	157	184)			
66	157	185	13,292	8-16-54	8-20-54
68	157	186	13,294	8-16-54	8-20-54

Claim No.	Book No.	Page No.	Cert. No.	DATES Loc.	DATES Rec.
100	157	187	13,296	8-16-54	8-20-54
102	157	188	13,298	8-16-54	8-20-54
116	157	195	13,312	8-16-54	8-20-54
118	157	196	13,314	8-16-54	8-20-54
120	157	197	13,316	8-16-54	8-20-54
122	157	198	13,318	8-16-54	8-20-54
124	157	199	13,320	8-16-54	8-20-54

Claim corners in Brushy Basin Creek are marked only by pinon branches. No markers were found on the ridge west of the creek, and there were no signs of claim surveys nor discovery work.

DESCRIPTION OF THE DEPOSIT

The Lower Salt Wash sandstone member of the Jurassic Morrison formation consisting of light grey and brown fine grained sandstone are exposed in the canyon and the immediate slopes of Brushy Basin Canyon, with the Westwater Canyon sandstone member and the Brushy Basin shale outcropping on the upper slopes. In the southern group of five claims brown to black conglomeritic sandstone appears, with irregular outcrops of mudstone from two to ten inches thick at the base of an upper twenty-foot bed of the Salt Wash sandstone member. This mudstone contains carbonaceous material of ore grade, but is unimportant in respect to ore reserves. A radiometric check of the sandstone beds failed to reveal any anomalies.

MINABLE RESERVES

None

PRESENT STATUS

Exploration and Development

None

Mining and Milling Equipment and other Facilities

None

PROJECT PROPOSALS WITH COSTS

The applicant proposed a diamond core drilling program in three stages consisting of 17,640 feet of drilling in 168 holes at an estimated total cost of $52,220.00. Government participation at 75 percent would be $39,165.00.

The examining team considers that the chances of finding commercial uranium ore on the claims are unfavorable.

CONCLUSIONS

The only uranium mineralization on the Brushy Basin claims is in a two-to ten-inch mudstone seam in the Salt Wash sandstone member of the Morrison formation. The chances of finding commercial uranium deposits under this condition are unfavorable.

RECOMMENDATION

It is recommended that DMEA Application 3820 be denied without prejudice because no uranium mineralization was found in the Salt Wash sandstone member and the targets in the mudstone seam are too small to be given consideration.

TRANSMITTED

AUG 15 1955

BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration

July 18, 1955

Memorandum

To: DMEA Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3820 (Uranium), Franklin E. Getscher, Brushy Basin group of claims, San Juan County, Utah

Enclosed are 10 copies of a report by J. F. Albee, U. S. Geological Survey, covering his examination of the subject claims.

The points of high radioactivity shown on the applicants' map were not confirmed by the examiners nor could the ore outcrops shown on the maps be found except for one fossil log that was of ore grade.

The claims lie to the north of a favorable ore zone found by AEC drilling in an area underlain by rocks described as semi-favorable to unfavorable for significant uranium ore deposits.

I concur with the recommendation that the application for exploration assistance be denied.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

Reviewed by
DMEA OPERATING COMMITTEE
8-22-55
(Date)

TRANSMITTED
AUG 15 1955

MINERAL DEPOSITS
DMEA
RECEIVED
JUL 15 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

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

July 14, 1955

DMEA
Date Rec'd.
JUL 19 1955
BUREAU OF MINES
Denver, Colorado

Memorandum

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

From: J. William Hasler

Subject: Franklin K. Getscher, Brushy Basin group of claims, San Juan County, Utah (DMEA 3820)

Franklin K. Getscher, 314 California Building, Denver 2, Colorado, has applied to the Defense Minerals Exploration Administration for assistance to explore for uranium on part of the Brushy Basin group of claims in San Juan County, Utah.

The application was referred to the field and an examination was made on June 21, 1955, by Howard F. Albee and Carl H. Roach of the U. S. Geological Survey, and W. D. McMillan, Engineer, U. S. Bureau of Mines, in company with Franklin K. Getscher, the applicant.

The rocks exposed on the applicant's claims are composed entirely of the Jurassic Morrison formation consisting of the Salt Wash sandstone member, Westwater Canyon sandstone member, and the Brushy Basin shale member. The uranium-vanadium ore of the Blanding area is known to occur in thin, roughly-tabular masses, as well as in rolls and in small, high-grade pockets which surround mineralized fossil logs.

The AEC has delineated a favorable belt of Salt Wash sandstone about a mile wide, but it does not extend far enough north into the applicant's property. The ore-bearing formation on the Brushy Basin group of claims becomes less favorable as it is traversed to the north. The sandstones become flat-bedded and are interbedded with unaltered, red mudstones.

No production has come from the Brushy Basin group of claims and the likelihood of finding ore-grade material in economic quantities is not good It is, therefore, recommended that the application for DMEA assistance be denied. I concur with the conclusions and recommendations of the examining field team.

Enclosed are the required number of reports and maps.

J. William Hasler
J. William Hasler,
Geologist

JWH/mlr

Reviewed by
DMEA OPERATING COMMITTEE
8-22-55
(date)

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

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

DMEA 3820, Franklin K. Getscher, Brushy Basin group of claims, San Juan County, Utah

Uranium

Geologic Report

by

Howard F. Albee
U. S. Geological Survey

July 14, 1955

Reviewed by
DMEA OPERATING COMMITTEE
8-22-55
(date)

INTRODUCTION

Franklin K. Getscher, 314 California Building, Denver 2, Colorado, has applied to DMEA 3820 for assistance to explore for uranium ore on part of the Brushy Basin group of claims. The claims are in the Blanding area of the Monticello mining district, San Juan County, Utah, in secs. 30 and 31, T. 35 S., R. 21 E., and secs. 1, 11, and 12, T. 36 S., R. 21 E., S.L.P.M. (fig. 1). The claims are about 9 miles west of Blanding, Utah, and can be reached via 6.5 miles of improved dirt road and about 3 miles of unimproved dirt road.

The applicant proposes to explore the claims with 17,640 feet of core drilling at a total cost of $52,220.00, including road building and drill sites.

The claims were examined June 21, 1955, by Howard F. Albee and Carl H. Roach of the U. S. Geological Survey, and W. D. McMillan, Engineer, U. S. Bureau of Mines, in company with Franklin K. Getscher, the applicant.

Northerly from a favorable belt of Salt Wash sandstone, delineated by Atomic Energy Commission drilling, the sandstone becomes less favorable. The applicant claims are in this less favorable area, and is recommended that the application for assistance be denied.

GEOLOGY AND MINERAL DEPOSITS

The rocks exposed on the applicant claims are entirely of the Jurassic Morrison formation. In ascending order the members are the Salt Wash sandstone, Westwater Canyon sandstone, and the Brushy Basin shale. The rocks strike east and have a regional dip of about 2° to the south.

In the area of the Brushy Basin group of claims the Salt Wash member is the only ore-producing member. Throughout the district the Salt Wash is generally composed of interbedded sandstone and mudstone lenses and cross-stratification is common in the sandstone. Local unconformities are abundant and represent scour and fill structures within the sandstone lenses. Carbonaceous material is abundant in parts of the sandstone and is found in nearly all of the ore bodies discovered in the Blanding area. Altered mudstone is a very prominent feature in all the mineralized localities of this area.

The uranium-vanadium ores of the Blanding area are in thin, roughly tabular masses; in thin to thick lenticular bodies; in rolls; and in small, high-grade pockets which surround mineralized fossil logs (Melancon and others, 1952).

The U. S. Atomic Energy Commission has delineated a favorable belt of Salt Wash that is about a mile wide and trends easterly through secs. 2 and 3, T. 37 S., R. 21 E. ~~(fig. 2).~~ Ore bodies in this belt range up to about 50,000 tons. North of this belt, in Brushy Basin draw, the Salt Wash sandstone becomes progressively less favorable. As far north as the southernmost group of Brushy Basin claims, Nos. 116-124, (fig. 2), the sands are generally semi-favorable. Northerly from this southern group of claims the sandstones become flat-bedded and are interbedded with unaltered, red mudstone beds.

The applicant's claim map shows many points of high radioactivity across most of the claims and shows ore outcrops on the southernmost group of claims. The points of high radioactivity were found by the applicant while walking the stream bottom and not on the outcrop. The examining team, in company with the applicant, traversed the stream bottom and could detect no anomalous radioactivity by scintillation counter. Part of the rims were walked, both on the southernmost claims and to the north. The indicated outcrops were walked but no ore was seen nor was any indicated by scintillation counter except in one large talus block. This talus block contains a fossil log from four to six inches in diameter with much carbonaceous material surrounding the log that is of ore-grade. The supposed mineralized indicated outcrop is at the base of the second rim, down from the Westwater Canyon sandstone. This zone is three to four times above background count and at the contact of a twenty to thirty feet thick sandstone and an underlying mudstone. The mudstone is altered from red to gray through a thickness of from two to ten inches.

No work has been done on the claims and the applicant could not show the examining team where he had taken samples.

There has been no production from this locality. Some wagon drilling has been done east of Brushy Basin draw, in section 12, by parties unknown to the applicant.

The examining team believes that the geologic probability of finding ore on the Brushy Basin group of claims is not good. Small, high-grade pods of ore may occur on the southermost group of five claims, but would be blind targets, and would be too small, if found, to be of economic value.

North of this southermost group, the sandstone is unfavorable for ore bodies. The sands are increasingly flat-bedded and the mudstone beds are unaltered except for about an inch thick, gray zone at the lower contact of the sandstone ledges.

CONCLUSIONS AND RECOMMENDATIONS

The U. S. Atomic Energy Commission has delineated an east trending belt of ore-bearing and favorable Salt Wash in the Blanding area. Northerly from this belt the Salt Wash becomes progressively less favorable. The Brushy Basin group of claims is in the less favorable area. From south to north across the claims the sandstones are semi-favorable to unfavorable and little radioactivity was observed on the northernmost claims. No production has come from the Brushy Basin group of claims or from adjacent ground and no work has been done on the claims other than an access road to them.

The probability of finding ore-grade material in economic quantity is extremely poor. It is recommended, therefore, that the application be denied.

LITERATURE CITED

Melancon, P. E., Farrow, C. E., Jr., Garcia, R. J., 1953, Exploration drilling in the Blanding District, San Juan County, Utah, U. S. Atomic Energy Commission, RMO 827.

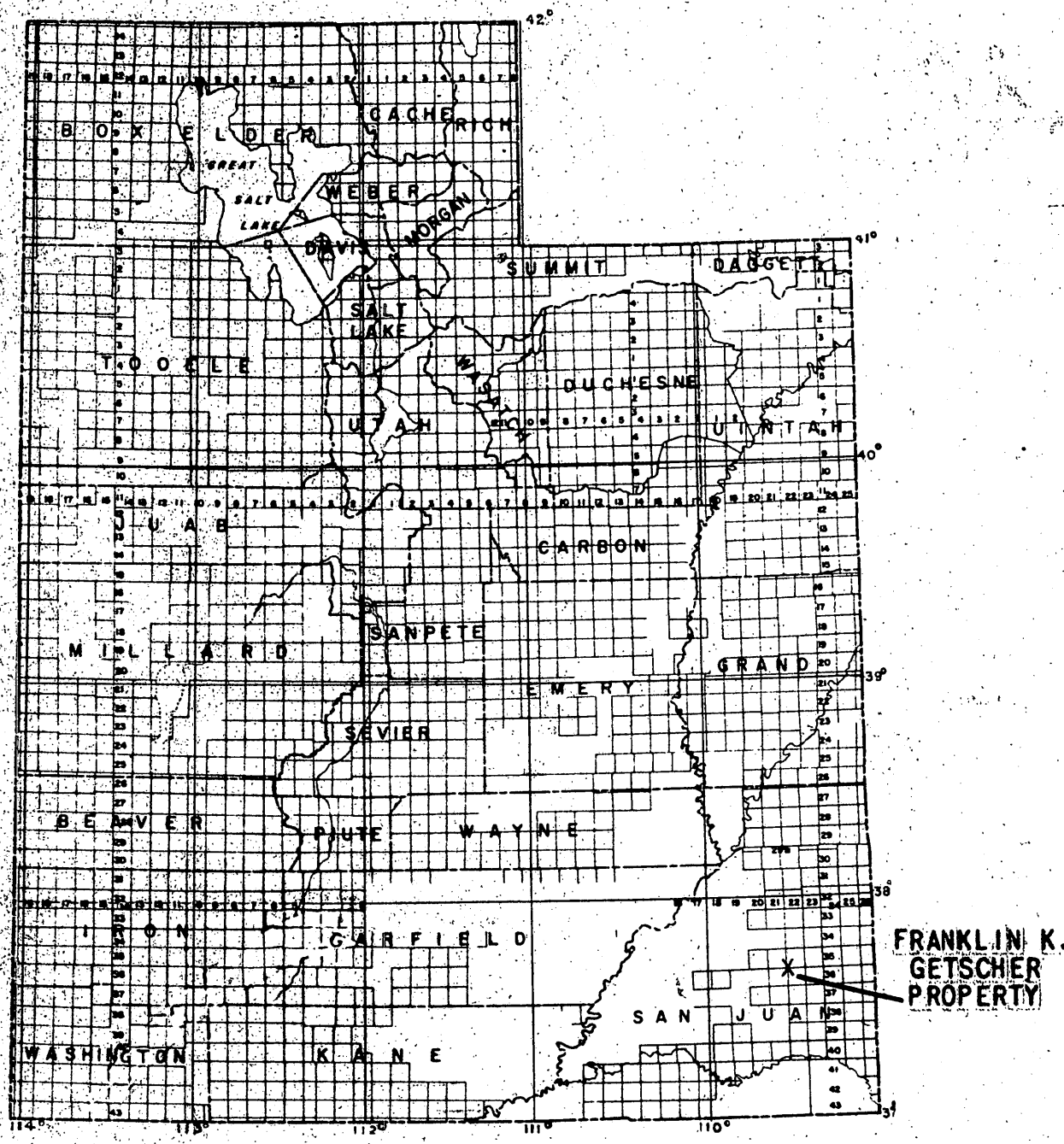
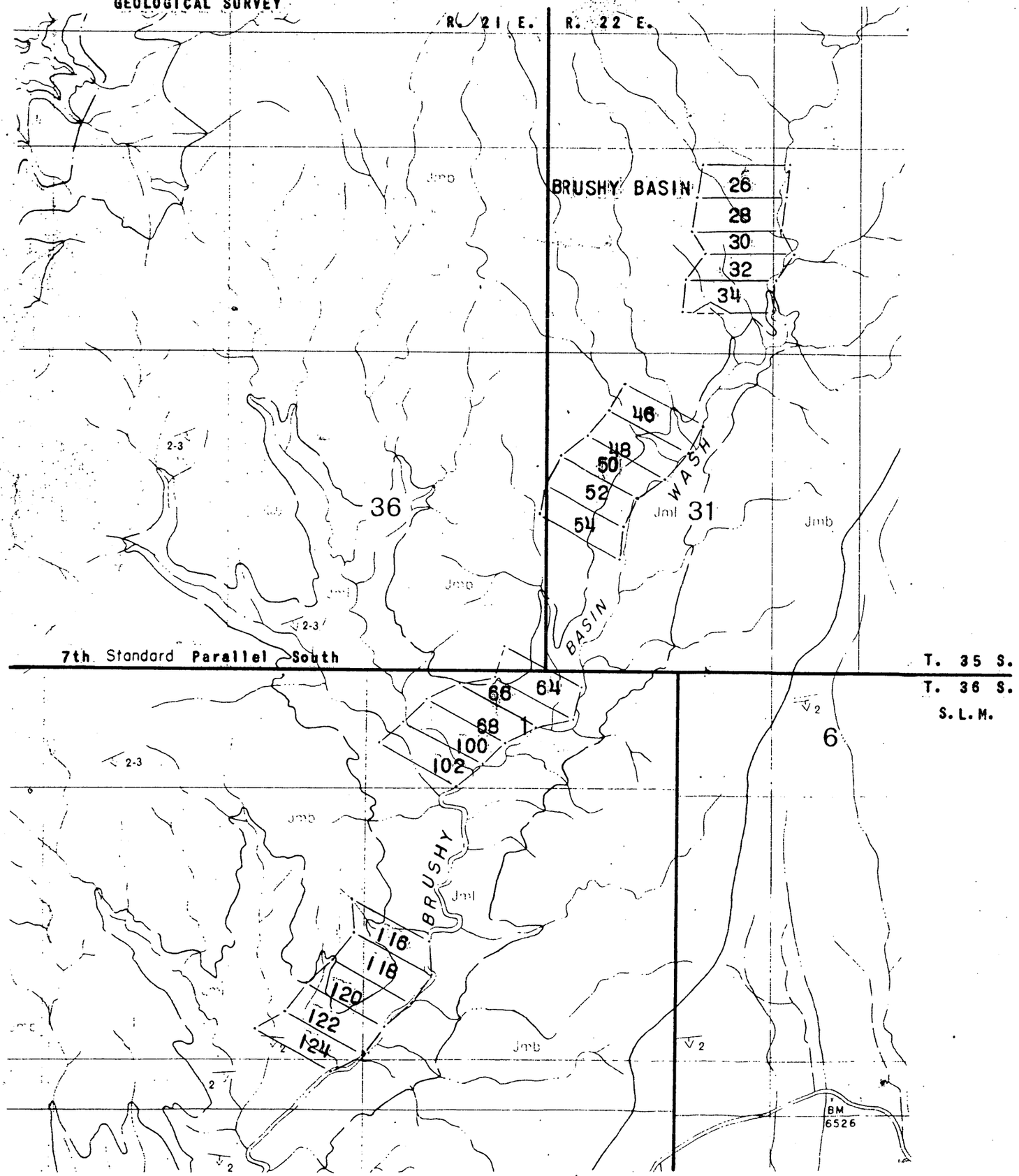


Figure 1. INDEX MAP SHOWING FRANKLIN K. GETSCHER PROPERTY
BLANDING AREA, SAN JUAN COUNTY, UTAH

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3820 JUNE 1955



EXPLANATION

Jmb BRUSHY BASIN MEMBER OF THE JURASSIC MORRISON FORMATION

Jml LOWER PART OF THE JURASSIC MORRISON FORMATION INCLUDES THE SALT WASH AND WESTWATER CANYON SANDSTONE MEMBERS

Note: BASE FROM U.S. GEOLOGICAL SURVEY PHOTOGEOLOGIC MAP ELK RIDGE 16

N

2000 0 4000 FEET

Figure 2. GEOLOGIC MAP OF PART OF BRUSHY BASIN GROUP OF CLAIMS, FRANKLIN K. GETSCHER SAN JUAN COUNTY, UTAH

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

RECEIVED
JUN 13 1955

224 New Customhouse
Denver 2, Colorado

June 8, 1955

Memorandum

To: J. F. Shaw (w/brochure)
W. P. Williams

From: Field Team, Region III

Subject: Docket DMEA-3820 (Uranium), Franklin K. Getscher, (Brushy Basin claims), San Juan County, Utah

Enclosed are copies of the subject application for a loan estimated as $52,220.00, its referral by the Chairman of the Operating Committee and memoranda to E. W. Ellis from J. E. Crawford, USBM, and R. D. Trace, USGS, members of the Uranium Commodity Committee.

A field examination with suitable covering reports is required after discussion of the application with the Grand Junction office of the AEC.

The Chairman of the Operating Committee suggests the possibility of substituting wagon drilling for core drilling in holes of only 105 feet deep. If a contract is recommended, he also mentions the necessity of advising the applicant that he will be required to subordinate all claims that will benefit from exploration proposed. This will involve obtaining the information indicated on the included letter from the Chairman.

W. M. TRAVER

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures
WMT:pw

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

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

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W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures
WMT:pw

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

Surname 700

F. L. Knouse
Ellis
Hedges
Kilsgaard
Selfridge
Johnson

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

JUN - 3 1955

Mr. Franklin K. Getscher
314 California Building
Denver 2, Colorado

Re: Docket No. DMEA-3820 (Uranium)
Brushy Basin claims
San Juan County, Utah

Dear Mr. Getscher:

The application for assistance in exploring your property in San Juan 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. H. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

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

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse:am
6-1-55
cc to: Admr. Reading File
Docket
Code 700
Mr. Knouse
DMEA Field Team, Region III(2)

R.S.H.

Surname 700

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

F L Knouse
6-6-55 AM
Ellis
Selfridge
F G Johnson

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

JUN - 3 1955

Re: Docket No. DMEA-3820 (Uranium)
Franklin K. Getscher
Brushy Basin claims
San Juan County, Utah

Dear Mr. Traver:

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

Enclosed are copies of memoranda from Mr. John E. Crawford dated May 27, and Mr. R. D. Trace dated May 25, 1955, members of the Uranium Commodity Committee.

If the Field Team recommends either the program as submitted, or an alternate one approved by the Applicant, please furnish us the necessary information to draft a contract. In this connection, your attention is directed to the proposed core drilling for holes averaging 105 feet deep. Possibly wagon drilling would serve to obtain a part if not all of the desired information at less cost. Also, the Applicant's proposed exploration of four disconnected groups of claims (in a group of 75 claims and fractions), if approved, would probably benefit many of the adjoining claims. Therefore, if such claims are controlled by the Applicant they should be included in the project and the required information furnished, including recording data, copies of leases, and Consents to Lien if not owned by Operator.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

FLKnouse:am
6-1-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J.E.Crawford, Rm.3641
T.H.Kiilsgaard, Rm.5224
J.O.Hosted, Rm.3210, GSA
Code 700
Mr. Knouse

R.C.B.

5/27/55 gla

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

DEPARTMENT OF ...
Defense Mineral ...
RE...
MAY 27 1955

May 27, 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 3820, Shay Dome, Dull Knife, J. C., Porky, Brushy Basin and Johnson's Wash Claims, San Juan County, Utah

I have reviewed the attached application for assistance, Shay Dome, Dull Knife, J. C., Porky, Brushy Basin and Johnson's Wash Claims, DMEA Docket 3820, San Juan County, Utah; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the application be referred to the Field Team for examination and report and that the Field Team be requested to discuss the application with Ernest R. Gordon, Grand Junction Operations Office, Atomic Energy Commission, Grand Junction, Colorado.

John E. Crawford

John E. Crawford

Attachment

5/26/55 gla

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1955

May 25, 1955

Re: DMEA-3820
Franklin Getscher
Brushy Basin Claims
San Juan Co., Utah
$52,550.00 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

The applicant proposes a 3-X stage drilling program of an area underlain by Salt Wash. Some uranium mineralization and high radioactivity are present in outcrops of the Salt Wash. A mine is operating about a mile SW of the applicant's property.

We have no data in our files about the applicant's property.

The proposed drilling program is probably larger than available data warrant~~s~~.

Because of the known mineralization and nearby mine, and our lack of data here, I suggest that you refer the application to the Field Team.

R. D. Trace

R. D. Trace

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1955

May 25, 1955

Re: DMEA-3820
Franklin Getscher
Brushy Basin Claims
San Juan Co., Utah
$52,550.00 - Uranium

Memorandum:

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From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

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We have no data in our files about the applicant's property.

The proposed drilling program is probably larger than available data warrants.

Because of the known mineralization and nearby mine, and our lack of data here, I suggest that you refer the application to the Field Team.

R. D. Trace

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

RDTrace:hlm
G-5/25/55

May 20, 1955

Subject: DMEA-3820
Re: Exploration Assistance

Franklin K. Getscher
314 California Bldg.,
Denver 2, Colorado

Dear Sir:

The receipt of your application dated May 4, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3820 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

May 20, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA 3820 Franklin K. Getscher

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

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

224 New Customhouse
Denver 2, Colorado

May 17, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium and Rare Earths), Franklin K. Getscher, San Juan County, Utah

Enclosed are the original and two copies of the subject application for Government assistance to explore the applicant's claims for uranium and rare earths at an estimated cost of $52,220.00.

Forms were received in this office on May 13, 1955 but were held here until Forms MF-103 were signed by the applicant.

We have retained one copy of the application in this office.

W. M. Traver

Enclosures

W. M. Traver

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

RECEIVED
MAY 20 1955

224 New Customhouse
Denver 2, Colorado

May 17, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium and Rare Earths), Franklin K. Getscher, San Juan County, Utah

Enclosed are the original and two copies of the subject application for Government assistance to explore the applicant's claims for uranium and rare earths at an estimated cost of $52,220.00.

Forms were received in this office on May 13, 1955 but were held here until Forms MF-103 were signed by the applicant.

We have retained one copy of the application in this office.

W. M. TRAVER,

Enclosures

W. M. Traver

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

/DMEA\
Date Rec'd.
MAY 13 1955

BUREAU OF MINES
Denver, Colorado

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. 3870
Metal or Mineral Vanadium
Date Received 5-20-55
Estimated Cost $2,220.00
Participation (Government %) 75

INSTRUCTIONS

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

Franklin K. Getscher
314 California Bldg.
Denver 2, Colorado

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

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

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

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

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

separate encloser "Legal Description"

(*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 owner ✓

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

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

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

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. none

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. none

(*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. encloser "Geological Report"

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. 1 8 miles from Blanding, Utah 6 miles is state road

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

16—66551-1

under contract

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

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

(*c*) The work will start within 90 days and be completed within 12 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

(*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 May 4, 1955

Frank Setscher
(Applicant)

By

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

LEGAL DESCRIPTION

Book 131 Page 20
Brushy Basin Mining Claim No. 26, Location Notice Monument located in bottom of Brushy Basin Wash, approximately 2,435 feet South and 1300 feet West of Northeast Corner of Section 30, Township 35 South, Range 22 East; Beginning at East Center Post 20 feet East this Location Monument, thence North 4 Deg. 30' East, 280 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northwest Corner Post No. 2, Thence South 4 Deg., 30' West 560 feet to Southwest Corner Post No. 3, thence East 1500 feet to Southeast Corner Post No. 4, thence North 4 Deg. 30' East, 280 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 24.

Brushy Basin Mining Claim No. 28; Book 131 Page 21
Beginning at East Center Post 20 feet East this Location Monument, thence North 10 Deg. East, 291 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northwest Corner Post No. 2, thence South 10 Deg. West, 582 feet to Southwest Corner Post No. 3, thence East 1500 feet to Southeast Corner Post No. 4, thence North 10 Deg. East, 291 feet to point of beginning. The North Line of this Claim is common with South Line or Claim No. 26.

Brushy Basin Mining Claim No. 30; Book 131 Page 22
Beginning at East Center Post 20 feet East of this Location Monument, thence North 32 Deg. West, 219 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northeast Corner Post No, 2, thence South 32 Deg., thence East, 438 feet to Southwest Corner Post No.3, thence East 1500 feet to Southwest Corner Pos t No. 4, thence North 32 Deg. West, 219 feet to point of beginning. The North Line of this Claim is common with the South Line of Claim No. 28.
Brushy Basin Mining Claim No. 32; Book 131 Page 23
Beginning at East Center Post 20 feet East of this Location Monument, thence North 36 Deg. 30' East, 284 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northwest Corner Post No. 2, thence South 36 Deg. 30' West, 568 feet to Southwest Corner Post No. 3, thence East 1500 feet to Southeast Corner Post No. 4, thence North 36 Deg. 30' East, 284 feet to Point of beginning. The North Line of this Claim is common with South Line of Claim No. 30.
Brushy Basin Mining Claim No. 34; Book 131 Page 24
Beginning at East Center Post 20 feet East of this Location Monument, thence North 269 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northwest Corner Post No. 2, thence South 538 feet to Southwest Corner Post No. 3, thence East 1500 feet to Southeast Corner Post No. 4, thence North 269 feet to point of beginning. the North Line of this Claim is common with the South Line of Claim No. 32.

Brushy Basin Mining Claim No. 46; Book 157 Page 175
Location Notice Monument Located in the bottom of Brushy Basin Wash, approximately 1,430 feet South and 2,620 feet West of Northeast Corner of Section 31, Tounship 35 South, Range 22 East: Beginning at East Center Post 20 feet East of this Location Monument, thence North 28 Deg. 30' East, 273.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 28 Deg. 30' West, 547 feet to Southwest Corner Post No. 3, thence Southe 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 28 Deg. 30' East, 273.5 feet to point of Beginning. The North Line of this Claim is common with South Line of Claim No.44.

Brushy Basin Mining Claim No. 48; Book 157 Page 176
Beginning at East Center Post 20 feet East of this Location Monument, thence North 40 Deg. East, 289 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence Southe 40 Deg. West, 578 feet to Southwest Corner Post No. 3, thence North 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 40 Deg. East, 289 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 46.

Brushy Basin Mining Claim No. 50; Book 157 Page 177
Beginning East Center Post 20 feet East of this Location Monument, thence North 54 Deg. 30' East, 283 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 54 Deg. 30' West, 566 feet to Southwest Corner Pos t No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 54 Deg. 30' East, 283 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 48.

Brushy Basin Mining Claim No. 52; Book 157 Page 178
Beginning at East Center Post 20 feet East of this Location Monument, thence North 25 Deg. East, 272 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 25 Deg. West, 544 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 25 Deg. East, 272 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 50.

Brushy Basin Mining Claim No. 54; Book 157 Page 179
Beginning at East Center Post 20 feet East of this Location Monument, thence North 5 Deg. East, 290 feet to Northeast Corner Pos t No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 5 Deg. West, 580 feet To Southwest Corner Pos t No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 5 Deg. East, 290 feet to Point of beginning. The North Line of this Claim is common with South Line of Claim No. 52.

Book 157 Page 184
Brushy Basin Mining Claim No. 64, Location Notice Monument located in the bottom of Brush Basin Wash, approximately 570 feet South and 1,670 feet West from Northeast Corner of /Section 1, Township 36 South, Range 21 East; Beginning at East Center Post 20 feet East of this Location Monument, thence North 17 Deg. 30' East, 284.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 17 Deg. 30' West, 569 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner No. 4, thence North 17 Deg. 30' East, 284.5 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 62.

Brushy Basin Mining Claim No. 66; Book 157 Page 185
Beginning at East Center Post 20 feet East of this Location Monument, thence North 81 Deg. East, 306 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 81 Deg. West, 612 feet to Southwest Corner Post No. 3, thence Southe 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 81 Deg. East, 306 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 64.

Brush Basin Mining Claim No. 68; Book 157 Page 186
Beginning at East Center Post 20 feet East of this Location Monument, thence North 60 Deg. 30' East, 291 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 60 Deg. 30' West, 582 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Pos t No. 4, thence North 60 Deg. 30' East, 291 feet to point of beginning. The North Line of this Claim is common with South Line of Claim 66.

Brushy Basin Mining Claim No. 100; Book 157 Page 187
Beginning at East Center Post 20 feet East of this Location Monument, thence North 46 Deg. 30' East, 274 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence Southe46 Deg. 30' West, 582feet to Southwest Corner Post No. 3, thence Southe 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 46 Deg. 30' East, 274 feet to point of beginning. The North Line of this /Claim is common with South Line of Claim No. 68.

Brushy Basin Mining Claim No. 102; Book 157 Page 188
Beginning at East Center Post 20 feet East of this Location Monument, thence North 49 Deg. 30 'East, 293.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 49 Deg. 30' West, 587 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southwest Corner Post No. 4, thence North 49 Deg. 30' East, 293.5 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 100.

Book 157 Page 195
Brushy Basin Mining Claim No. 116, Location Monument location in the bottom of Brushy Basin Wash, approximately 2,500 feet North and 1,165 feet East of Southwest Corner of Section 12, Township 36 South, Range 21 East, Beginning at East Center Post 20 feet of this Location Monument, thence North 6 Deg. 30' West, 293.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 6 Deg. 30' East, 587 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corne r Pos t No. 4, thence North 6 Deg. 30' West, 293.5 feet to point of beginning. The North Line of this Claim is common with the South Line of Claim No. 114.

Brush Basin Mining Claim No. 118; Book 157 Page 196
Beginning at East Center Post 20 feet East of this Location Monument, the nce North 40 Deg. 30' East, 298 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 40 Deg. 30' West, 596 feet to Northwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 40 Deg. 30' East, 298 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 116.

Brushy Basin Mining Claim No. 120; Book 157 Page 197
Beginning at East Center Post 20 feet East of this Location Monument, thence North 48 Deg. 30' East, 294 feet to Northeast Corner Post No. 1, thence North 62 Deg. East, 1500 feet to Northwest Corner Post No. 2, thence South 48 Deg. 30' West, 588 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 48 Deg. 30' East, 294 feet to point of beginning. The North Line ofthis Claim is common with South Line O Claim No. 118.

Brush Basin Mining Claim No. 122; Book 157 Page 198
Beginning at East Center Pos t 20 feet East of this Location Monument, thence North 35 Deg. West, 298.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 35 Deg. West, 597 feet to Southeast Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 35 Deg. East, 298.5 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 120.

Brushy Basin Mining Claim No. 124; Book Page 199
Beginning at East Center Pos t 20 feet East of this Location Monument, thence North 61 Deg. 30' East, 296 feet to Northeast Corner Post No. 1, thence Noryh 62 Deg. West, 1500 feet to Northwest Corner Pos t No. 2, thence South 61 Deg. 30' West, 592 feet to Southwest Corner Post No. 3, thence South 62 Deg. West, 1500 feet to Southeast Corner Post No. 4, thence North 61 Deg. 30' East, 296 feet to point of beginning. The North Line of this Claim is common with the South Line of Claim No. 122.

2114 CURTIS STREET

TELEPHONE MAin 1852

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 2, COLORADO

Folio 6249

Date 8/11/54

Dean Roland
525 Commonwealth Bldg.
Denver.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
Single Piece Uranium Oxide		U3O8	0.042%					
" " "	"	"	0.482%					
" " "	"	"	0.387%					

Gold at _____ per ounce Copper at _____ per unit

Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $ 15.00

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

2114 CURTIS STREET

TELEPHONE MAin 1852

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 2, COLORADO

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525 Commonwealth Bldg.,
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DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
Morrison Bag:		Uranium oxide (U3O8):			0.235%			
" "		"	"	"	0.653%			
" "		"	"	"	0.487%			

Gold at _____ per ounce Copper at _____ per unit

Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $15.00

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS

FRANK GETSCHER ENTERPRISES, INC.
314 California Building
Denver 2, Colorado
Phone CHerry 4-8975 P. O. Box 2589

Defense Minerals Administration
RECEIVED

May 4, 1955

Defense Minerals Exploration Admistration
224 New Custom House
Denver, Colo.

RE: The Exploration Project

Question 5
(b). The proposed work is shown on enclosed map by first phase, second phase, & etc. These phases of work to be done depends upon the previous work of each phase: thus, the geologist will determine the various steps of drilling as the exploration progresses. The attached maps are to show a tenitive exploration program as it now stands.

(d). The applicant's experience is limited to one and one half years of Uranium publishing, Uranium mapping, and brokering Uranium properities. Having many years of experience in oil exploration, it is this applicants' opinion that he has enough basic geology to recongnize the importance of hiring and experienced mining engineer or geologist to direct the exploration drilling.

Franklin K. Getscher

FRANK GETSCHER ENTERPRISES, INC.

314 California Building
Denver 2, Colorado

Phone CHerry 4-8975 P. O. Box 2589

RECEIVED

May 4, 1955

Defense Minerals Exploration Admistration
224 New Custom House
Denver, Colorado

RE: Estimate of Costs

Question 6

(a) Independent Contracts
The drilling is contracted on the basis of $2.75 per foot for core drilling
The bulldozing is contracted by the hour of $12.00 per hour for a D-8 cat
Blasting is to be done by the dozer contractor and is estimated to be $350.00.

The proposed drilling depth is to average 105 feet to bottom of Morrison formation.

1st phase	10,500 ft.	$28,875.00
2nd phase	5,880 ft.	$16,170.00
3rd phase	1,260 ft.	$3,465.00
Bulldozing estimated road & drilling sites for 168 holes		$3,360.00
Blasting estimated for road		$350.00
	TOTAL (est.)	$52,220.00

Franklin K. Getscher

GEOLOGICAL AND GEOPHYSICAL REPORT

- OF -

SHAY DOME - DULL KNIFE - J. C. - PORKY

BRUSHY BASIN AND JOHNSON'S WASH

GROUPS OF MINING CLAIMS

SAN JUAN COUNTY, UTAH

JULY 7, 1954

LOCATION

The Shay Dome, Dull Knife, J. C., Porky, Brushy Basin and Johnson's Wash Claims are located along the Western edge of the Abajo Mountains in East Central San Juan County, Utah. They extend in a North-South direction from Shay Mountain, which lies Northwest from the main Abajo granite mountains, Southward through the Cliff Dwellers structure to the Brushy Basin Wash, which is a Southwesterly drainage basin from the general Abajo uplift.

These groups of Claims extend from the Northern portion of Township 33, Southward through 35 South and are all in Range 21 East.

These groups of Claims run parallel to and about 15 miles West of Utah State Highway No. 47. The Towns of Monticello and Blanding, Utah, lie on this Highway 15 miles to the East.

All of these groups of Claims are accessible by good dirt roads except the group on top of Shay Mountain, which will require a half mile or so of road building.

PROPERTIES

The Shay Mountain Claims consists of two groups. The large group numbering 43 Claims, lying on the top and North flank of Shay Mountain and the smaller group of 13 Claims lying on a ridge extending Southward from Shay Mountain.

The Dull Knife group consists of 21 Claims, lying on the Southwest Flank of the Cliff Dweller's Structure which lies southwest of the general Abajo Uplift. The J. C. group consists of 16 Claims and cover the West One-Half of the Cliff Dweller's Structure and the Porky group consists of 25 Claims, covering a Southeastern portion of the Structure. The Brushy Basin group consists of 48 Claims and covers the deeper portions of Brushy Basin Wash, draining Southwestward from the Abajo Mountains. The Johnson's Wash group consists of 32 Claims and covers the deeper portions of Johnson's Wash, draining Southward from the Abajo Mountains.

These groups of Claims are all shown on the enclosed large scale Geological Map, which is a part of this report. These Claims are surveyed and tied into General Land Office section corners or government location markers. These corners and markers have all been examined by the writer and known to be in place. Where any Claims are smaller in size than the normal 20.6 acres, they have been grouped together in order to make full Claims and only full Claims are designated in the above numbers in each group.

GEOLOGY

While the general geology of the Abajo Mountain Uplift is rather complex, it will not be necessary to go into great details concerning it.

The general Uplift is a result of Igneous activity, which breaks through the surface in most of the peaks of the mountains, but leaves Shay Mountain to the Northwest and Cliff Dweller's Structure to the Southwest, not broken through but domed or arched in an abnormal manner. While it is not known just what formations are pierced by the granite under the Shay Mountain and Cliff Dweller's Uplifts, we do know that the Morrison formation was not pierced on either Structure and from evidence at hand, neither was the Chinle-Shinerump formations. On the Shay Mountain Dome, the complete Morrison section is in place as well as remnants of the Dakota formation. On the Cliff Dweller's Structure, the Dakota, Morrison and San Rafael groups are weathered away, leaving the Navajo Sandstone exposed on the peak of the Structure.

These two structures have very sharp dips and because of their relations to the general Abajo Uplift, are dissected by pronounced faults. There is a very pronounced East-West fault along the South edge of the Shay Dome and as well as a fault in the same relation to the Cliff Dweller's Dome. While there are numerous other faults in the general area, these are the two in which we are primarily interested. The Brushy Basin and Johnson's Wash groups of Claims are in relatively normal areas geologically, lying on Southward dips of approximately 1 to 2 degrees from the Mountains.

While in the acquisition of these groups of Claims, the writer was primarily interested in possible Uranium or other mineralization in the Morrison formation, it must still be kept in mind that, the Chinle-Shinerump formations are also present at a greater depth.

The upper Morrison or Brushy Basin is marked J.M.U. or J.M. on the large enclosed map. This Brushy Basin member consists of interbedded sandstone and shales but being mostly a conglomerate, having the consistency and texture of soft concrete made with pea-sized gravel. The lower few feet of the Brushy Basin has produced considerable Carnotite-type Uranium Ore.

The lower Morrison or Salt Wash member of the Morrison formation is marked J.M. or J.M.L. on the enclosed large Geological Map. The lower Morrison consists of interbedded clean sandstone with blue to grey clay lenses. There is, sometime, considerable petrified wood and carbonized plant remains in this zone. This member or the Morrison formation is by far the largest producer of Carnotite-type Uranium Ore in the Colorado Plateau at present. There are from 3 to 5 members of this bleached sandstone, usually separated by the blue clay lenses. These sandstone members, in some areas, grade to light and even darker red sandstone. The Morrison formation lies immediately on top of the Entrada Sandstone which is relatively hard and easily identifiable because of its smooth rounded surface on the outcrops. This Entrada Sandstone is known throughout the mining area as the "Slick Rim".

The majority of the ground covered by these Claims consists of Broad flats of Morrison, which are easily accessible for exploration drilling purposes. There are approximately 4 miles of exposed Morrison Rim on or adjacent to these Claims. This is significant in that this exposed rim makes first stages of exploration relatively low in cost and is invaluable in laying out an intelligent drilling program. The enclosed will be found a Map with cross sections from United States Geological Survey Professional Paper No. 188. The top cross section on this map is through the Shay Dome and shows the present Mines.

STATUS OF LAND

All of the acreage covered by the above mentioned groups of Claims is Public Domain subject to claiming by citizens for any valuable minerals which may be found thereon.

The enclosed large Geological Map shows the outcropping formations as they occur throughout the area of these groups of Claims.

None of the above listed Claims are on lands reserved for school purposes or lands withdrawn from Exploration or Mining by the Atomic Energy Commission.

The Shay Dome, Dull Knife, J. C. and a portion of the Johnson Wash Claims have one full year's grace before the annual Assessment work of $100.00 per Claim ust be done and the remainder have two full years. This work may be done on road building or all done on one Claim if desired.

MINERALIZATION

A complete radioactivity summary was made of all the above groups of Claims. The results of these surveys are shown on the large scale Geological Map enclosed. This work was done with a Model 117 Scintillator, which in the writer's opinion is by far the most sensitive and practical field radiation counter on the market today. These instruments are far superior to any type Geiger Counter on the market because of their sensitivity and stability as well as ease of operation and the final computation of results.

It will be noted that there are several areas of high radioactivity on each of the groups of Claims. While this does not mean that there is commercially mineable ore at those spots it certainly is an excellent lead for future core drilling or bulldozer excavations.

Considerable time was spent in the field in examination of surface outcrops of the Morrison and several areas were located where there is abundant petrified wood and carbonized plant remaining. Evidence of Vanadium Ore is present in several of the outcrops. Vanadium is commonly associated with Uranium Ore.

Several samples of low grade Uranium Ore were picked up on the outcrops of the Claims but all were non-commercial. Uranium mineralization occuring on outcrops of the Morrison formation is subject to leaching by ground waters, wind, etc., and therefore become gradually weaker in radioactive count. As a result, it is unusual to find high grade Ore on the face of the outcrops. The average of these assayed samples is about the same as all the other samples from local mines.

The enclosed Assay Report covers five samples of Ore taken from the truckloading chute at the Shumway Mine on the Southwest side of Shay Mountain. These samples were not selected but are run of the Mine ore samples.

The average of these assayed samples is about the same as all the other Mines in the Morrison formation in this general area. While the area is known to have a rather high Vanadium content in the Ore, this offers no drawbacks, in fact it pays part of the cost of mining.

For the benefit of those not familiar with the price schedule of Uranium Ore as posted by the A.E.C. the following is the posted price as is ascertained from the values of U308 content in the enclosed Assay:-

	Uranium Oxide (U308)	Value Per Ton
Sample No. 1	0.443%	$ 70.06
" " 2	0.125%	11.11
" " 3	1.295%	210.15
" " 4	0.154%	17.13
" " 5	0.230%	34.95
AVERAGE - - - - - - - -	.449%	$ 71.00 *

*Includes development allowance and initial production bonus, but not haulage allowance.

The Shumway Mine has just completed a road to the property by which they will be able to more than double their production. Last Summer (1953) in 4 months, over $15.000.00 in Ore was taken from this Mine by Jeep and Trailer.

The Utah-Colo Mine to the East of Shay Mountain is now getting under way to hauling Ore as is the Thompson Mine. The Mines to the Southeast of the Abajo Mountains in Dry Wash are all active. Ore from all the Mines in this area is hauled to the Mill at Monticello.

There are Mines in both the Morrison and Shinarump in every direction from the Abajo Mountains, as can be seen from the enclosed small scale Uranium Area Map.

SUMMARY

The writer has spent enough time in the field doing geological and geophysical work and in studying the up-to-date Mining History and the General Geology of this area from publications, to arrive at the following conclusions:

1. The areas covered by the groups of Claims as outlined in this report, are considered by the writer to be highly favorable and strongly potential producers of Uranium Ore in commercial quantities for the following reasons:

   "A" - Commercially producing Mines exist throughout the area of the Claims.

   "B" - There is a very large amount of abnormal structural activity associated with igneous activity and faulting throughout the area.

"C" - Mineralization associated with apparent channel activity is known to exist on or near most of the group of Claims.

"D" - Most of the Claims lie on relatively flat Morrison benches or on outcrops conducive to shallow drilling or tunneling from the faces of the rims, at a minimum cost.

"E" - The Chinle, Shinarump and Cutler-Rico formations exist beneath all the Claims of the groups. They can all be reached by drilling and will be eventually tested in this area.

Respectfully submitted,

Dean Roland, Geologist-Geophysicist

SUPPLEMENTAL
GEOLOGICAL AND GEOPHYSICAL REPORT
- OF -
BRUSHY BASIN SOUTH GROUP
- OF -
MINING CLAIMS
SAN JUAN COUNTY, UTAH

AUGUST 17, 1954

This Report shall be considered as a supplement to the original Report covering Shay Dome, Dull Knife, J. C., Porky, Brushy Basin and Johnson's Wash Groups of Claims, dated July 7th, 1954. The Claims covered in this report constitute a continuation of the Brushy Basin Group extending South down Brushy Basin Wash from the original Brushy Basin Group mentioned in the original report and shown on the original General Map of all the Original groups.

LOCATION

The Brushy Basin South Group of Claims join the Original Brushy Basin Claim No. 20 on the South and extend Southward down Brushy Basin through Claim No. 69 and then continuing Southward, Claims No. 100 through No. 124.

The North end of this group as shown on the enclosed Map is at the Center Line Monument between No. 21 and No. 22, which lies 1,460 feet South and 1,100 feet West of the Northeast Corner of Section 30, Township 35 South, Range 22 East. The Center Line Monuments of these Claims all lie in the bottom of Brushy Basin Wash with the last Claims to the South, No. 123 and No. 124 having their Center Line point in the Wash 760 feet North and 265 feet West of Southeast Corner of Section 11, Township 36 South, Range 21 East.

The South end of these Claims lies One-Mile up the Wash from the Uranium Mine operated by the Morrison Brothers. This Mine is shown on the enclosed Map. This Mine has an access road which runs into Utah State Highway No. 95, about One-Mile Southeast of the Mine and about Eight Miles West of Blanding, Utah. It is then, 21 Miles from Blanding to Monticello, Utah, where the nearest Ore buying Mill of the A.E.C. is located.

PROPERTIES

The Brushy Basin South Claims consist of 75 Claims, including a triangular Claim No. 35-A. They are all contiguous, joining on their North and South lines. These Claims cover the walls of Brushy Basin Wash continuously, for a distance of 3-1/2 Miles, having Seven Miles of Morrison formation face exposed on the face of the rims.

GEOLOGY

The general geology of the area of these Claims has been covered by the original Report. The Brushy Basin South Claims are on a gradual dip Southward, of from One to One and One-Half Degrees in the formations from the Abajo Mountains to the North. The formation dip is slightly less than the dip in surface elevation to the Southward.

All outcrops on the walls of the Canyon consist of the Lower Morrison formation. All Members of the Lower Morrison are exposed in the Canyon except the bottom Sandstone Member, it will have to be drilled. The Upper Morrison is marked JMU and the Lower Morrison is marked JML on the enclosed Map. The tops of the higher Mesas in the area are covered by remnants of the Dakota Formation.

STATUS OF LAND

All of the acreage covered by the above mentioned groups of Claims is Public Domain subject to claiming by citizens for any valuable minerals which may be found thereon.

None of the above listed Claims are on lands reserved for school purposes or lands withdrawn from Exploration or Mining by the Atomic Energy Commission.

The Brushy Basin South Claims, having all been staked since July 1st, 1954, have almost two years to run before the necessity of any assessment work.

The Claims have all been re-posted and re-recorded since the passage of the New Mutiple Usage of Public Lands and Minerals Bill, Public Law No. 585.

MINERALIZATION

The only radio-activity survey made of the Brushy Basin South Claims was along the Center Lines of the Claims in the bottom of Brushy Basin Wash.

While several areas of high radioactivity were found, no prospecting has been done on the Claims except for the South 10 Claims, being numbers 115 through 124.

In a close examination of the second and third benches of the Morrison Sandstone from the bottom upward, the writer encountered a vein of low grade uranium ore on the face of the third bench of Sandstone on the South edge of Claim No. 121. This vein, varying in thickness from 18 inches to 3-1/2 feet, was traced horizontally along the face Northward across Claim No. 121, Claim No. 119 and the greatest portion of Claim No. 117.

Immediately across the Canyon (a distance here of approximately 150 feet) the same Ore vein was found at the same elevation in the same third bench and traced across most of Claims No. 122 and all of No. 120. This Ore vein is very strong in radioactivity, as measured by the Model 117 Scintillator, reading off scale on the third sensitivity range. The Ore is a brown to black conglomeritic Sandstone, with streaks of hard black highly radioactive substance interbedded which appears to be pitchblend.

The enclosed assay report "A" was made on samples taken from both sides of the Canyon from this Ore Vein. The selected samples were the best obtainable from the face of the Sandstone with a prospector's pick. The first sample on this assay sheet is the brown Sandstone and the second and third samples are the black material which is interbedded with the Sandstone. It is natural to assume that the Ore will increase in its U 308 content as more weathered material is removed from the face of the vein. The U308 content of any exposed sedimentary formation is greatly reduced by weathering and leaching.

The enclosed assay report "B" is made on samples taken from the area of the Morrison Brothers Mine a Mile down the Canyon from the Brushy Basin Claims.

This Mine is driving a tunnel to their main Ore body which lies in the same third bench of Morrison as the above mentioned vein on the Brushy Basin Claims. This Ore body at the Morrison Brothers Mine has been thoroughly drilled and the Ore blocked out. Out of 72 holes drilled, 44 holes showed Ore from two to seven feet thick and averaging about 0.330% U308. According to Mr. Morrison the Engineer's report on this property gives a total of approximately 52,000 tons of Ore in place, which should yield a profit after mining and other costs, of approximately $26.00 per ton, or $1,352,000.00.

There is another Mine one-half Mile down the Canyon from the Morrison Brothers Mine, which belongs to Brooks et al. This is a new Mine and is in the lowest Member of the Morrison, or the true "Salt Wash" Member. The Ore in this Mine is dark grey Sandstone and averages about 0.350% U308. No core drilling has been done at this Mine and the excellent Ore body in which they are Mining was found by a thin streak of hard, black carbonized material outcropping in the face of the Sandstone. This was traced in by tunneling and the good Ore body encountered within 5 feet. This Mine was recently sold for $100,000.00 and a 20% Royalty.

There are twenty to thirty good Mines in operation in the Morrison, in Cottonwood Canyon where Brushy Basin Wash empties into it about two miles South of the Brooks Mine. Most of the Ore handled by the Monticello Mill is taken from this area.

SUMMARY

The writer has spent considerable time in the field in the examination of the area of the Brushy Basin South Claims, and of the Claims themselves, and has arrived at the following conclusions:

1. The area covered by the Brushy Basin South Group of Mining Claims as outlined in this Report, are considered by the writer to be highly favorable and as strongly potential producers of Uranium Ore in commercial quantities for the following reasons:

   "A" - Valuable producing Uranium Mines are present within from one to three miles and in the same formations as are these Claims.

   "B" - An apparently commercial Ore body has been located and traced for several hundred feet on the Claims themselves.

   "C" - Areas of abnormally high radioactivity have been found on several of the other Claims, indicating possible further Ore bodies.

   "D" - These Claims can all be mined very economically because of the fact that horizontal tunneling from the face makes any Ore body accessable at low cost.

   "E" - The extent and value of the Ore bodies known to exist can be determined at a very low exploration cost. An access road from the Morrison Brothers Mine to these Claims will be very inexpensive.

Respectfully submitted,

Dean Roland, Geologist-Geophysicist

DR:mr

DMEA
Date Rec'd
MAY 19 1955

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved,
Budget Bureau No. 42-R035.2.

BUREAU OF MINES
Denver, Colorado

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. 3820
Metal or Mineral Uranium
Date Received 5-20-55
Estimated Cost 52,350.00
Participation (Government %) 75

INSTRUCTIONS

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

Franklin K. Getscher
314 California Bldg.
Denver 2, Colorado

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

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

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

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

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

Separate encloser "Legal Description"

(*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 owner

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

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

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

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. none

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. none

(*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. encloser "Geological Report"

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. 8 miles from Blanding Utah 6 miles are state road

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

under contract

16—66551-1

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

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

(*c*) The work will start within 90 days and be completed within 12 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

(*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 May 4, 1955

Frank Selsche
(Applicant)

By

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

Enclosure "B"

DEPARTMENT OF THE INTERIOR
Bureau Minerals Administration
RECEIVED
MAY 20 1955

GEOLOGICAL AND GEOPHYSICAL REPORT

- OF -

SHAY DOME - DULL KNIFE - J. C. - PORKY

BRUSHY BASIN AND JOHNSON'S WASH

GROUPS OF MINING CLAIMS

SAN JUAN COUNTY, UTAH

JULY 7, 1954

LOCATION

The Shay Dome, Dull Knife, J. C., Porky, Brushy Basin and Johnson's Wash Claims are located along the Western edge of the Abajo Mountains in East Central San Juan County, Utah. They extend in a North-South direction from Shay Mountain, which lies Northwest from the main Abajo granite mountains, Southward through the Cliff Dwellers structure to the Brushy Basin Wash, which is a Southwesterly drainage basin from the general Abajo uplift.

These groups of Claims extend from the Northern portion of Township 33, Southward through 35 South and are all in Range 21 East.

These groups of Claims run parallel to and about 15 miles West of Utah State Highway No. 47. The Towns of Monticello and Blanding, Utah, lie on this Highway 15 miles to the East.

All of these groups of Claims are accessible by good dirt roads except the group on top of Shay Mountain, which will require a half mile or so of road building.

PROPERTIES

The Shay Mountain Claims consists of two groups. The large group numbering 43 Claims, lying on the top and North flank of Shay Mountain and the smaller group of 13 Claims lying on a ridge extending Southward from Shay Mountain.

The Dull Knife group consists of 21 Claims, lying on the Southwest Flank of the Cliff Dweller's Structure which lies southwest of the general Abajo Uplift. The J. C. group consists of 16 Claims and cover the West One-Half of the Cliff Dweller's Structure and the Porky group consists of 25 Claims, covering a Southeastern portion of the Structure. The Brushy Basin group consists of 48 Claims and covers the deeper portions of Brushy Basin Wash, draining Southwestward from the Abajo Mountains. The Johnson's Wash group consists of 32 Claims and covers the deeper portions of Johnson's Wash, draining Southward from the Abajo Mountains.

These groups of Claims are all shown on the enclosed large scale Geological Map, which is a part of this report. These Claims are surveyed and tied into General Land Office section corners or government location markers. These corners and markers have all been examined by the writer and known to be in place. Where any Claims are smaller in size than the normal 20.6 acres, they have been grouped together in order to make full Claims and only full Claims are designated in the above numbers in each group.

GEOLOGY

While the general geology of the Abajo Mountain Uplift is rather complex, it will not be necessary to go into great details concerning it.

The general Uplift is a result of Igneous activity, which breaks through the surface in most of the peaks of the mountains, but leaves Shay Mountain to the Northwest and Cliff Dweller's Structure to the Southwest, not broken through but domed or arched in an abnormal manner. While it is not known just what formations are pierced by the granite under the Shay Mountain and Cliff Dweller's Uplifts, we do know that the Morrison formation was not pierced on either Structure and from evidence at hand, neither was the Chinle-Shinerump formations. On the Shay Mountain Dome, the complete Morrison section is in place as well as remnants of the Dakota formation. On the Cliff Dweller's Structure, the Dakota, Morrison and San Rafael groups are weathered away, leaving the Navajo Sandstone exposed on the peak of the Structure.

These two structures have very sharp dips and because of their relations to the general Abajo Uplift, are dissected by pronounced faults. There is a very pronounced East-West fault along the South edge of the Shay Dome and as well as a fault in the same relation to the Cliff Dweller's Dome. While there are numerous other faults in the general area, these are the two in which we are primarily interested. The Brushy Basin and Johnson's Wash groups of Claims are in relatively normal areas geologically, lying on Southward dips of approximately 1 to 2 degrees from the Mountains.

While in the acquisition of these groups of Claims, the writer was primarily interested in possible Uranium or other mineralization in the Morrison formation, it must still be kept in mind that, the Chinle-Shinerump formations are also present at a greater depth.

The upper Morrison or Brushy Basin is marked J.M.U. or J.M. on the large enclosed map. This Brushy Basin member consists of interbedded sandstone and shales but being mostly a conglomerate, having the consistency and texture of soft concrete made with pea-sized gravel. The lower few feet of the Brushy Basin has produced considerable Carnotite-type Uranium Ore.

The lower Morrison or Salt Wash member of the Morrison formation is marked J. M. or J. M. L. on the enclosed large Geological Map. The lower Morrison consists of interbedded clean sandstone with blue to grey clay lenses. There is, sometime, considerable petrified wood and carbonized plant remains in this zone. This member or the Morrison formation is by far the largest producer of Carnotite-type Uranium Ore in the Colorado Plateau at present. There are from 3 to 5 members of this bleached sandstone, usually separated by the blue clay lenses. These sandstone members, in some areas, grade to light and even darker red sandstone. The Morrison formation lies immediately on top of the Entrada Sandstone which is relatively hard and easily identifiable because of its smooth rounded surface on the outcrops. This Entrada Sandstone is known throughout the mining area as the "Slick Rim".

The majority of the ground covered by these Claims consists of Broad flats of Morrison, which are easily accessible for exploration drilling purposes. There are approximately 4 miles of exposed Morrison Rim on or adjacent to these Claims. This is significant in that this exposed rim makes first stages of exploration relatively low in cost and is invaluable in laying out an intelligent drilling program. The enclosed will be found a Map with cross sections from United States Geological Survey Professional Paper No. 188. The top cross section on this map is through the Shay Dome and shows the present Mines.

STATUS OF LAND

All of the acreage covered by the above mentioned groups of Claims is Public Domain subject to claiming by citizens for any valuable minerals which may be found thereon.

The enclosed large Geological Map shows the outcropping formations as they occur throughout the area of these groups of Claims.

None of the above listed Claims are on lands reserved for school purposes or lands withdrawn from Exploration or Mining by the Atomic Energy Commission.

The Shay Dome, Dull Knife, J. C. and a portion of the Johnson Wash Claims have one full year's grace before the annual Assessment work of $100.00 per Claim ust be done and the remainder have two full years. This work may be done on road building or all done on one Claim if desired.

MINERALIZATION

A complete radioactivity summary was made of all the above groups of Claims. The results of these surveys are shown on the large scale Geological Map enclosed. This work was done with a Model 117 Scintillator, which in the writer's opinion is by far the most sensitive and practical field radiation counter on the market today. These instruments are far superior to any type Geiger Counter on the market because of their sensitivity and stability as well as ease of operation and the final computation of results.

It will be noted that there are several areas of high radioactivity on each of the groups of Claims. While this does not mean that there is commercially mineable ore at those spots it certainly is an excellent lead for future core drilling or bulldozer excavations.

Considerable time was spent in the field in examination of surface outcrops of the Morrison and several areas were located where there is abundant petrified wood and carbonized plant remaining. Evidence of Vanadium Ore is present in several of the outcrops. Vanadium is commonly associated with Uranium Ore.

Several samples of low grade Uranium Ore were picked up on the outcrops of the Claims but all were non-commercial. Uranium mineralization occuring on outcrops of the Morrison formation is subject to leaching by ground waters, wind, etc., and therefore become gradually weaker in radioactive count. As a result, it is unusual to find high grade Ore on the face of the outcrops. The average of these assayed samples is about the same as all the other samples from local mines.

The enclosed Assay Report covers five samples of Ore taken from the truckloading chute at the Shumway Mine on the Southwest side of Shay Mountain. These samples were not selected but are run of the Mine ore samples.

The average of these assayed samples is about the same as all the other Mines in the Morrison formation in this general area. While the area is known to have a rather high Vanadium content in the Ore, this offers no drawbacks, in fact it pays part of the cost of mining.

For the benefit of those not familiar with the price schedule of Uranium Ore as posted by the A.E.C. the following is the posted price as is ascertained from the values of U3O8 content in the enclosed Assay:-

	Uranium Oxide (U3O8)	Value Per Ton
Sample No. 1	0.443%	$ 70.06
" " 2	0.125%	11.11
" " 3	1.295%	210.15
" " 4	0.154%	17.13
" " 5	0.230%	34.95
AVERAGE - - - - - - - -	.449%	$ 71.00 *

*Includes development allowance and initial production bonus, but not haulage allowance.

The Shumway Mine has just completed a road to the property by which they will be able to more than double their production. Last Summer (1953) in 4 months, over $15,000.00 in Ore was taken from this Mine by Jeep and Trailer.

The Utah-Colo Mine to the East of Shay Mountain is now getting under way to hauling Ore as is the Thompson Mine. The Mines to the Southeast of the Abajo Mountains in Dry Wash are all active. Ore from all the Mines in this area is hauled to the Mill at Monticello.

There are Mines in both the Morrison and Shinarump in every direction from the Abajo Mountains, as can be seen from the enclosed small scale Uranium Area Map.

SUMMARY

The writer has spent enough time in the field doing geological and geophysical work and in studying the up-to-date Mining History and the General Geology of this area from publications, to arrive at the following conclusions:

1. The areas covered by the groups of Claims as outlined in this report, are considered by the writer to be highly favorable and strongly potential producers of Uranium Ore in commercial quantities for the following reasons:

   "A" - Commercially producing Mines exist throughout the area of the Claims.

   "B" - There is a very large amount of abnormal structural activity associated with igneous activity and faulting throughout the area.

"C" - Mineralization associated with apparent channel activity is known to exist on or near most of the group of Claims.

"D" - Most of the Claims lie on relatively flat Morrison benches or on outcrops conducive to shallow drilling or tunneling from the faces of the rims, at a minimum cost.

"E" - The Chinle, Shinarump and Cutler-Rico formations exist beneath all the Claims of the groups. They can all be reached by drilling and will be eventually tested in this area.

Respectfully submitted,

Dean Roland, Geologist-Geophysicist

SUPPLEMENTAL

GEOLOGICAL AND GEOPHYSICAL REPORT

- OF -

BRUSHY BASIN SOUTH GROUP

- OF -

MINING CLAIMS

SAN JUAN COUNTY, UTAH

AUGUST 17, 1954

This Report shall be considered as a supplement to the original Report covering Shay Dome, Dull Knife, J. C., Porky, Brushy Basin and Johnson's Wash Groups of Claims, dated July 7th, 1954. The Claims covered in this report constitute a continuation of the Brushy Basin Group extending South down Brushy Basin Wash from the original Brushy Basin Group mentioned in the original report and shown on the original General Map of all the Original groups.

LOCATION

The Brushy Basin South Group of Claims join the Original Brushy Basin Claim No. 20 on the South and extend Southward down Brushy Basin through Claim No. 69 and then continuing Southward, Claims No. 100 through No. 124.

The North end of this group as shown on the enclosed Map is at the Center Line Monument between No. 21 and No. 22, which lies 1,460 feet South and 1,100 feet West of the Northeast Corner of Section 30, Township 35 South, Range 22 East. The Center Line Monuments of these Claims all lie in the bottom of Brushy Basin Wash with the last Claims to the South, No. 123 and No. 124 having their Center Line point in the Wash 760 feet North and 265 feet West of Southeast Corner of Section 11, Township 36 South, Range 21 East.

The South end of these Claims lies One-Mile up the Wash from the Uranium Mine operated by the Morrison Brothers. This Mine is shown on the enclosed Map. This Mine has an access road which runs into Utah State Highway No. 95, about One-Mile Southeast of the Mine and about Eight Miles West of Blanding, Utah. It is then, 21 Miles from Blanding to Monticello, Utah, where the nearest Ore buying Mill of the A.E.C. is located.

PROPERTIES

The Brushy Basin South Claims consist of 75 Claims, including a triangular Claim No. 35-A. They are all contiguous, joining on their North and South lines. These Claims cover the walls of Brushy Basin Wash continuously, for a distance of 3-1/2 Miles, having Seven Miles of Morrison formation face exposed on the face of the rims.

GEOLOGY

The general geology of the area of these Claims has been covered by the original Report. The Brushy Basin South Claims are on a gradual dip Southward, of from One to One and One-Half Degrees in the formations from the Abajo Mountains to the North. The formation dip is slightly less than the dip in surface elevation to the Southward.

All outcrops on the walls of the Canyon consist of the Lower Morrison formation. All Members of the Lower Morrison are exposed in the Canyon except the bottom Sandstone Member, it will have to be drilled. The Upper Morrison is marked JMU and the Lower Morrison is marked JML on the enclosed Map. The tops of the higher Mesas in the area are covered by remnants of the Dakota Formation.

STATUS OF LAND

All of the acreage covered by the above mentioned groups of Claims is Public Domain subject to claiming by citizens for any valuable minerals which may be found thereon.

None of the above listed Claims are on lands reserved for school purposes or lands withdrawn from Exploration or Mining by the Atomic Energy Commission.

The Brushy Basin South Claims, having all been staked since July 1st, 1954, have almost two years to run before the necessity of any assessment work.

The Claims have all been re-posted and re-recorded since the passage of the New Mutiple Usage of Public Lands and Minerals Bill, Public Law No. 585.

MINERALIZATION

The only radio-activity survey made of the Brushy Basin South Claims was along the Center Lines of the Claims in the bottom of Brushy Basin Wash.

While several areas of high radioactivity were found, no prospecting has been done on the Claims except for the South 10 Claims, being numbers 115 through 124.

In a close examination of the second and third benches of the Morrison Sandstone from the bottom upward, the writer encountered a vein of low grade uranium ore on the face of the third bench of Sandstone on the South edge of Claim No. 121. This vein, varying in thickness from 18 inches to 3-1/2 feet, was traced horizontally along the face Northward across Claim No. 121, Claim No. 119 and the greatest portion of Claim No. 117.

Immediately across the Canyon (a distance here of approximately 150 feet) the same Ore vein was found at the same elevation in the same third bench and traced across most of Claims No. 122 and all of No. 120. This Ore vein is very strong in radioactivity, as measured by the Model 117 Scintillator, reading off scale on the third sensitivity range. The Ore is a brown to black conglomeritic Sandstone, with streaks of hard black highly radioactive substance interbedded which appears to be pitchblend.

The enclosed assay report "A" was made on samples taken from both sides of the Canyon from this Ore Vein. The selected samples were the best obtainable from the face of the Sandstone with a prospector's pick. The first sample on this assay sheet is the brown Sandstone and the second and third samples are the black material which is interbedded with the Sandstone. It is natural to assume that the Ore will increase in its U 308 content as more weathered material is removed from the face of the vein. The U308 content of any exposed sedimentary formation is greatly reduced by weathering and leaching.

The enclosed assay report "B" is made on samples taken from the area of the Morrison Brothers Mine a Mile down the Canyon from the Brushy Basin Claims.

This Mine is driving a tunnel to their main Ore body which lies in the same third bench of Morrison as the above mentioned vein on the Brushy Basin Claims. This Ore body at the Morrison Brothers Mine has been thoroughly drilled and the Ore blocked out. Out of 72 holes drilled, 44 holes showed Ore from two to seven feet thick and averaging about 0.330% U308. According to Mr. Morrison the Engineer's report on this property gives a total of approximately 52,000 tons of Ore in place, which should yield a profit after mining and other costs, of approximately $26.00 per ton, or $1,352,000.00.

There is another Mine one-half Mile down the Canyon from the Morrison Brothers Mine, which belongs to Brooks et al. This is a new Mine and is in the lowest Member of the Morrison, or the true "Salt Wash" Member. The Ore in this Mine is dark grey Sandstone and averages about 0.350% U308. No core drilling has been done at this Mine and the excellent Ore body in which they are Mining was found by a thin streak of hard, black carbonized material outcropping in the face of the Sandstone. This was traced in by tunneling and the good Ore body encountered within 5 feet. This Mine was recently sold for $100,000.00 and a 20% Royalty.

There are twenty to thirty good Mines in operation in the Morrison, in Cottonwood Canyon where Brushy Basin Wash empties into it about two miles South of the Brooks Mine. Most of the Ore handled by the Monticello Mill is taken from this area.

SUMMARY

The writer has spent considerable time in the field in the examination of the area of the Brushy Basin South Claims, and of the Claims themselves, and has arrived at the following conclusions:

1. The area covered by the Brushy Basin South Group of Mining Claims as outlined in this Report, are considered by the writer to be highly favorable and as strongly potential producers of Uranium Ore in commercial quantities for the following reasons:

   "A" - Valuable producing Uranium Mines are present within from one to three miles and in the same formations as are these Claims.

   "B" - An apparently commercial Ore body has been located and traced for several hundred feet on the Claims themselves.

   "C" - Areas of abnormally high radioactivity have been found on several of the other Claims, indicating possible further Ore bodies.

   "D" - These Claims can all be mined very economically because of the fact that horizontal tunneling from the face makes any Ore body accessable at low cost.

   "E" - The extent and value of the Ore bodies known to exist can be determined at a very low exploration cost. An access road from the Morrison Brothers Mine to these Claims will be very inexpensive.

Respectfully submitted,

Dean Roland, Geologist-Geophysicist

DR:mr

Enclosure "A"

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
MAY 20 1955

LEGAL DESCRIPTION

Book 131 Page 20
Brushy Basin Mining Claim No. 26, Location Notice Monument located in bottom of Brushy Basin Wash, approximately 2,435 feet South and 1300 feet West of Northeast Corner of Section 30, Township 35 South, Range 22 East; Beginning at East Center Post 20 feet East this Location Monument, thence North 4 Deg. 30' East, 280 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northwest Corner Post No. 2, Thence South 4 Deg., 30' West 560 feet to Southwest Corner Post No. 3, thence East 1500 feet to Southeast Corner Post No. 4, thence North 4 Deg. 30' East, 280 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 24.

Brushy Basin Mining Claim No. 28; Book 131 Page 21
Beginning at East Center Post 20 feet East this Location Monument, thence North 10 Deg. East, 291 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northwest Corner Post No. 2, thence South 10 Deg. West, 582 feet to Southwest Corner Post No. 3, thence East 1500 feet to Southeast Corner Post No. 4, thence North 10 Deg. East, 291 feet to point of beginning. The North Line of this Claim is common with South Line or Claim No. 26.

Brushy Basin Mining Claim No. 30; Book 131 Page 22
Beginning at East Center Post 20 feet East of this Location Monument, thence North 32 Deg. West, 219 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northeast Corner Post No, 2, thence South 32 Deg., thence East, 438 feet to Southwest Corner Post No.3, thence East 1500 feet to Southwest Corner Pos t No. 4, thence North 32 Deg. West, 219 feet to point of beginning. The North Line of this Claim is common with the South Line of Claim No. 28.
Brushy Basin Mining Claim No. 32; Book 131 Page 23
Beginning at East Center Post 20 feet East of this Location Monument, thence North 36 Deg. 30' East, 284 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northwest Corner Post No. 2, thence South 36 Deg. 30' West, 568 feet to Southwest Corner Post No. 3, thence East 1500 feet to Southeast Corner Post No. 4, thence North 36 Deg. 30' East, 284 feet to Point of beginning. The North Line of this Claim is common with South Line of Claim No. 30.
Brushy Basin Mining Claim No. 34; Book 131 Page 24
Beginning at East Center Post 20 feet East of this Location Monument, thence North 269 feet to Northeast Corner Post No. 1, thence West 1500 feet to Northwest Corner Post No. 2, thence South 538 feet to Southwest Corner Post No. 3, thence East 1500 feet to Southeast Corner Post No. 4, thence North 269 feet to point of beginning. the North Line of this Claim is common with the South Line of Claim No. 32.

Brushy Basin Mining Claim No. 46; Book 157 Page 175
Location Notice Monument Located in the bottom of Brushy Basin Wash, approximately 1,430 feet South and 2,620 feet West of Northeast Corner of Section 31, Township 35 South, Range 22 East: Beginning at East Center Post 20 feet East of this Location Monument, thence North 28 Deg. 30' East, 273.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 28 Deg. 30' West, 547 feet to Southwest Corner Post No. 3, thence Southe 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 28 Deg. 30' East, 273.5 feet to point of Beginning. The North Line of this Claim is common with South Line of Claim No.44.

Brushy Basin Mining Claim No. 48; Book 157 Page 176
Beginning at East Center Post 20 feet East of this Location Monument, thence North 40 Deg. East, 289 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence Southe 40 Deg. West, 578 feet to Southwest Corner Post No. 3, thence North 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 40 Deg. East, 289 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 46.

Brushy Basin Mining Claim No. 50; Book 157 Page 177
Beginning East Center Post 20 feet East of this Location Monument, thence North 54 Deg. 30' East, 283 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 54 Deg. 30' West, 566 feet to Southwest Corner Pos t No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 54 Deg. 30' East, 283 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 48.

Brushy Basin Mining Claim No. 52; Book 157 Page 178
Beginning at East Center Post 20 feet East of this Location Monument, thence North 25 Deg. East, 272 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 25 Deg. West, 544 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 25 Deg. East, 272 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 50.

Brushy Basin Mining Claim No. 54; Book 157 Page 179
Beginning at East Center Post 20 feet East of this Location Monument, thence North 5 Deg. East, 290 feet to Northeast Corner Pos t No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 5 Deg. West, 580 feet To Southwest Corner Pos t No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 5 Deg. East, 290 feet to Point of beginning. The North Line of this Claim is common with South Line of Claim No. 52.
Book 157 Page 184
Brushy Basin Mining Claim No. 64, Location Notice Monument located in the bottom of Brush Basin Wash, approximately 570 feet South and 1,670 feet West from Northeast Corner of /Section 1, Township 36 South, Range 21 East; Beginning at East Center Post 20 feet East of this Location Monument, thence North 17 Deg. 30' East, 284.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 17 Deg. 30' West, 569 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner No. 4, thence North 17 Deg. 30' East, 284.5 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 62.

Brushy Basin Mining Claim No. 66; Book 157 Page 185
Beginning at East Center Post 20 feet East of this Location Monument, thence North 81 Deg. East, 306 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 81 Deg. West, 612 feet to Southwest Corner Post No. 3, thence Southe 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 81 Deg. East, 306 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 64.

Brush Basin Mining Claim No. 68; Book 157 Page 186
Beginning at East Center Post 20 feet East of this Location Monument, thence North 60 Deg. 30' East, 291 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 60 Deg. 30' West, 582 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Pos t No. 4, thence North 60 Deg. 30' East, 291 feet to point of beginning. The North Line of this Claim is common with South Line of Claim 66.

Brushy Basin Mining Claim No. 100; Book 157 Page 187
Beginning at East Center Post 20 feet East of this Location Monument, thence North 46 Deg. 30' East, 274 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence Southe46 Deg. ~~34~~ 30' West, 582feet to Southwest Corner Post No. 3, thence Southe 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 46 Deg. 30' East, 274 feet to point of beginning. The North Line of this /Claim is common with South Line of Claim No. 68.

Brushy Basin Mining Claim No. 102; Book 157 Page 188
Beginning at East Center Post 20 feet East of this Location Monument, thence North 49 Deg. 30 'East, 293.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 49 Deg. 30' West, 587 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southwest Corner Post No. 4, thence North 49 Deg. 30' East, 293.5 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 100.

Book 157 Page 195
Brushy Basin Mining Claim No. 116, Location Monument location in the bottom of Brushy Basin Wash, approximately 2,500 feet North and 1,165 feet East of Southwest Corner of Section 12, Township 36 South, Range 21 East, Beginning at East Center Post 20 feet of this Location Monument, thence North 6 Deg. 30' West, 293.5 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 6 Deg. 30' East, 587 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corne r Pos t No. 4, thence North 6 Deg. 30' West, 293.5 feet to point of beginning. The North Line of this Claim is common with the South Line of Claim No. 114.

Brush Basin Mining Claim No. 118; Book 157 Page 196
Beginning at East Center Post 20 feet East of this Location Monument, the nce North 40 Deg. 30' East, 298 feet to Northeast Corner Post No. 1, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 40 Deg. 30' West, 596 feet to Northwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 40 Deg. 30' East, 298 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 116.

Brushy Basin Mining Claim No. 120; Book 157 Page 197
Beginning at East Center Post 20 feet East of this Location Monument, thence North 48 Deg. 30' East, 294 feet to Northeast Corner Post No. 1, thence North 62 Deg. Eeast, 1500 feet to Northwest Corner Post No. 2, thence South 48 Deg. 30' West, 588 feet to Southwest Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 48 Deg. 30' East, 294 feet to point of beginning. The North Line ofthis Claim is common with South Line O Claim No. 118.

Brush Basin Mining Claim No. 122; Book 157 Page 198
Beginning at East Center Pos t 20 feet East of this Location Monument, thence North 35 Deg. West, 298.5 feet to Northeast Corner Post No. 2, thence North 62 Deg. West, 1500 feet to Northwest Corner Post No. 2, thence South 35 Deg. West, 597 feet to Southeast Corner Post No. 3, thence South 62 Deg. East, 1500 feet to Southeast Corner Post No. 4, thence North 35 Deg. East, 298.5 feet to point of beginning. The North Line of this Claim is common with South Line of Claim No. 120.

Brushy Basin Mining Claim No. 124; Book Page 199
Beginning at East Center Pos t 20 feet East of this Location Monument, thence North 61 Deg. 30' East, 296 feet to Northeast Corner Post No. 1, thence Noryh 62 Deg. West, 1500 feet to Northwest Corner Pos t No. 2, thence South 61 Deg. 30' West, 592 feet to Southwest Corner Post No. 3, thence South 62 Deg. West, 1500 feet to Southeast Corner Post No. 4, thence North 61 Deg. 30' East, 296 feet to point of beginning. The North Line of this Claim is common with the South Line of Claim No. 122.

2114 CURTIS STREET

TELEPHONE [illegible] 1882

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 2, COLORADO

Folio 6249

Date 8/11/56

Dean Roland,
525 Commonwealth Bldg.,
Denver, Colo.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
Morrison Bag:		Uranium oxide (U3O8):			0.235%			
" "		"	"	"	0.653%			
" "		"	"	"	0.487%			

Gold at _____ per ounce Copper at _____ per unit

Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $15.00

CHARLES O. PARKER & CO.
CHEMISTS, ASSAYERS and ENGINEERS

2114 CURTIS STREET

TELEPHONE MAin 1862

CHEMISTS • ASSAYERS • ENGINEERS

DENVER 2, COLORADO

Folio 6249

Date 8/11/54

Dean Roland
525 Commonwealth Bldg.
Denver.

We hereby Certify, that the samples assayed for you gave the following results:

DESCRIPTION	GOLD OUNCES PER TON	SILVER OUNCES PER TON	COPPER PER CENT (WET)	LEAD PER CENT (WET)	ZINC PER CENT	IRON PER CENT	INSOLUBLE PER CENT	VALUE PER TON
Single Piece Uranium Oxide		U3O8	0.042%					
" " "	"	"	0.482%					
" " "	"	"	0.387%					

Gold at _____ per ounce Copper at _____ per unit

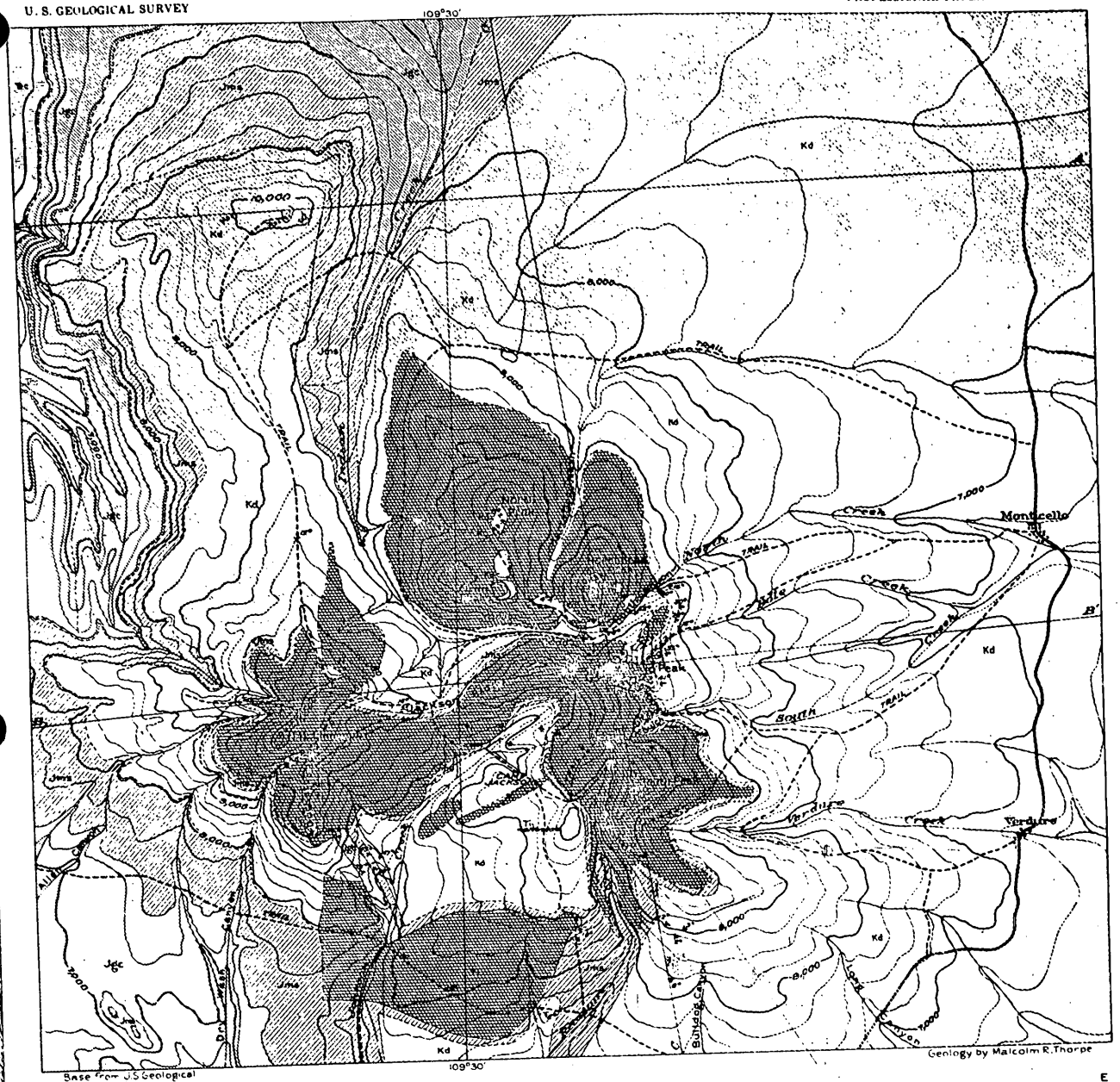
Silver at _____ per ounce Zinc at _____ per unit

Lead at _____ per unit _____

Charge $ 15.00

CHARLES O. PARKER & CO.

CHEMISTS, ASSAYERS and ENGINEERS



EXPLANATION

SEDIMENTARY ROCKS

MAP SECTION

Kd — Dakota (?) sandstone (Intermittent quartzose sandstone with carbonaceous shale, locally containing coal; small area of Mancos shale is shaded in places.)

Jms — Morrison formation and San Rafael group (Alternating sandstones and shales.)

Jgc — Glen Canyon group (Two massive sandstone layers separated by thin red calcareous shale.)

Ttc — Chinle formation (Bright red shale.)

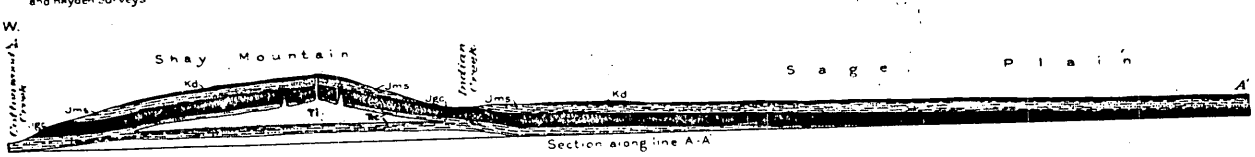
TERTIARY UPPER TRIASSIC JURASSIC(?) UPPER JURASSIC UPPER CRETACEOUS

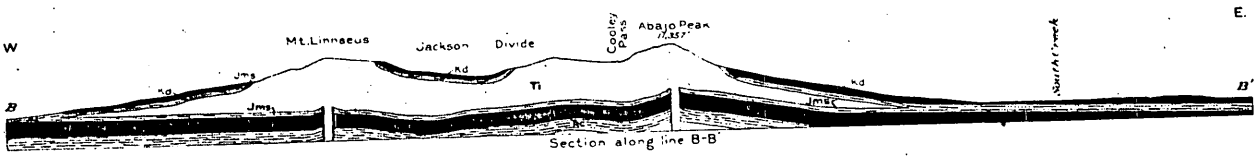
IGNEOUS ROCKS

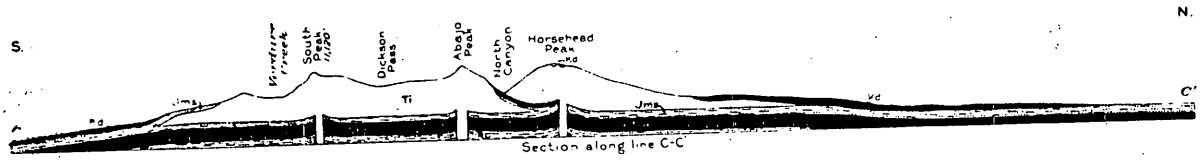
Ti — Intrusive rocks

Strike and dip

Mine or prospect







GEOLOGIC AND TOPOGRAPHIC MAP AND SECTIONS OF THE ABAJO AREA, SAN JUAN COUNTY, UTAH

Horizontal scale

1 0 1 2 3 4 Miles

Vertical scale

5000 0 10,000 Feet

FRANK GETSCHER ENTERPRISES, INC.

314 California Building
Denver 2, Colorado

Phone CHerry 4-8975 P. O. Box 2589

Defense Minerals Administration
RECEIVED

May 4, 1955

Defense Minerals Exploration Admistration
224 New Custom House
Denver, Colo.

RE: The Exploration Project

Question 5
(b). The proposed work is shown on enclosed map by first phase, second phase, & etc. These phases of work to be done depends upon the previous work of each phase: thus, the geologist will determine the various steps of drilling as the exploration progresses. The attached maps are to show a tenitive exploration program as it now stands.

(d). The applicant's experience is limited to one and one half years of Uranium publishing, Uranium mapping, and brokering Uranium properities. Having many years of experience in oil exploration, it is this applicants' opinion that he has enough basic geology to recongnize the importance of hiring and experienced mining engineer or geologist to direct the exploration drilling.

Franklin K. Getscher

FRANK GETSCHER ENTERPRISES, INC.

314 California Building
Denver 2, Colorado

Phone CHerry 4-8975

P. O. Box 2589

DEPARTMENT OF THE INTERIOR
Bureau Mines Mineral Resources
MAY 2 9 1955

May 4, 1955

Defense Minerals Exploration Admistration
224 New Custom House
Denver, Colorado

RE: Estimate of Costs

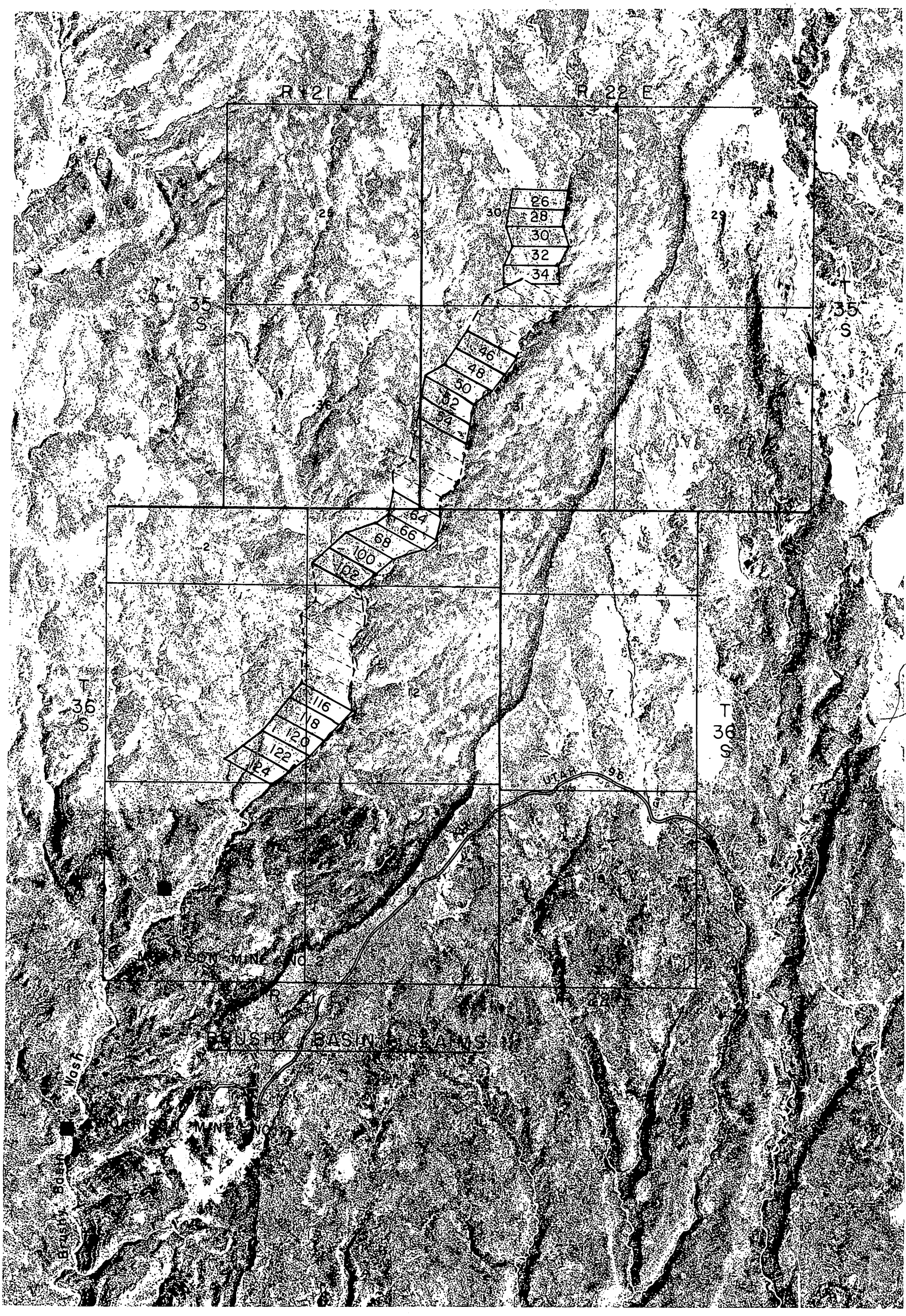
Question 6

(a) Independent Contracts
The drilling is contracted on the basis of $2.75 per foot for core drilling
The bulldozing is contracted by the hour of $12.00 per hour for a D-8 cat
Blasting is to be done by the dozer contractor and is estimated to be $350.00.

The proposed drilling depth is to average 105 feet to bottom of Morrison formation.

1st phase	10,500 ft.	$28,875.00
2nd phase	5,880 ft.	$16,170.00
3rd phase	1,260 ft.	$3,465.00
Bulldozing estimated road & drilling sites for 168 holes		$3,360.00
Blasting estimated for road		$350.00
	TOTAL (est.)	$52,220.00

Franklin K. Getscher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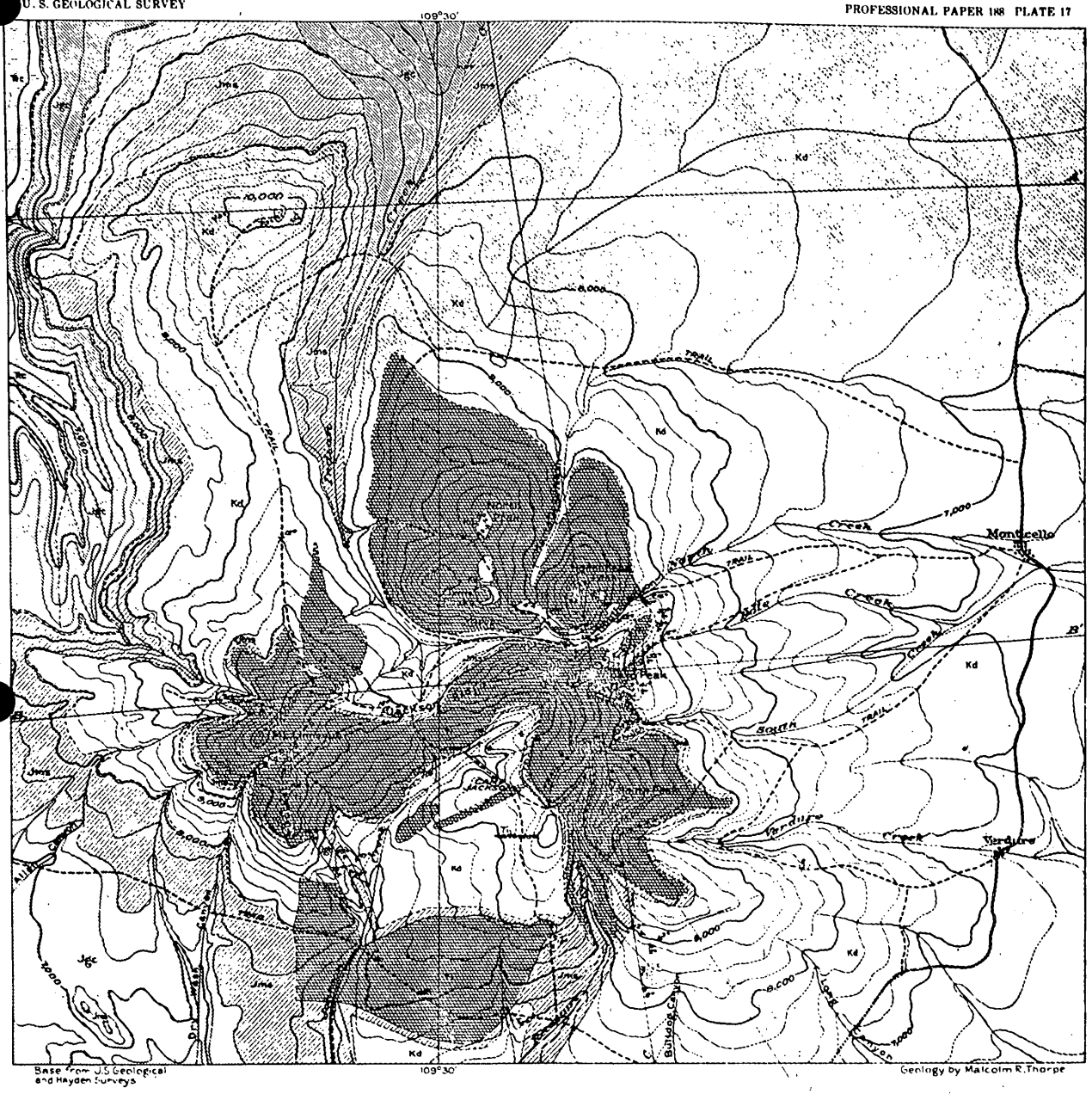
UTAH 95
MORRISON MINE NO 2
MORRISON MINE NO 1
BUSHY BASIN CLAIMS
Bushy Basin Wash



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SEDIMENTARY ROCKS

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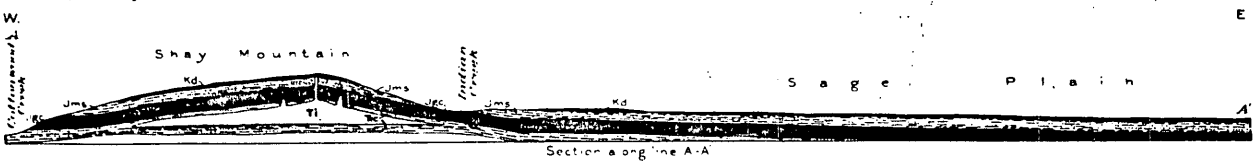
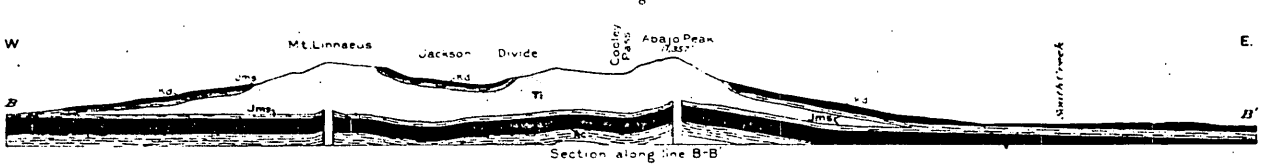
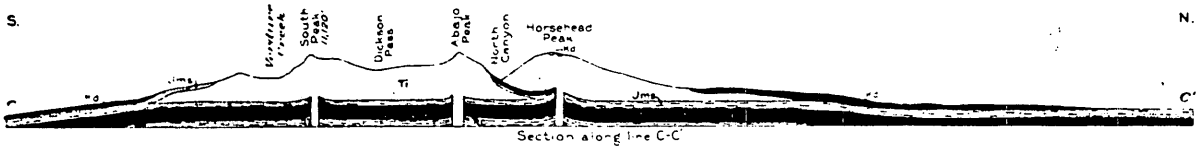


Section along line A-A'



Section along line B-B'



Section along line C-C'

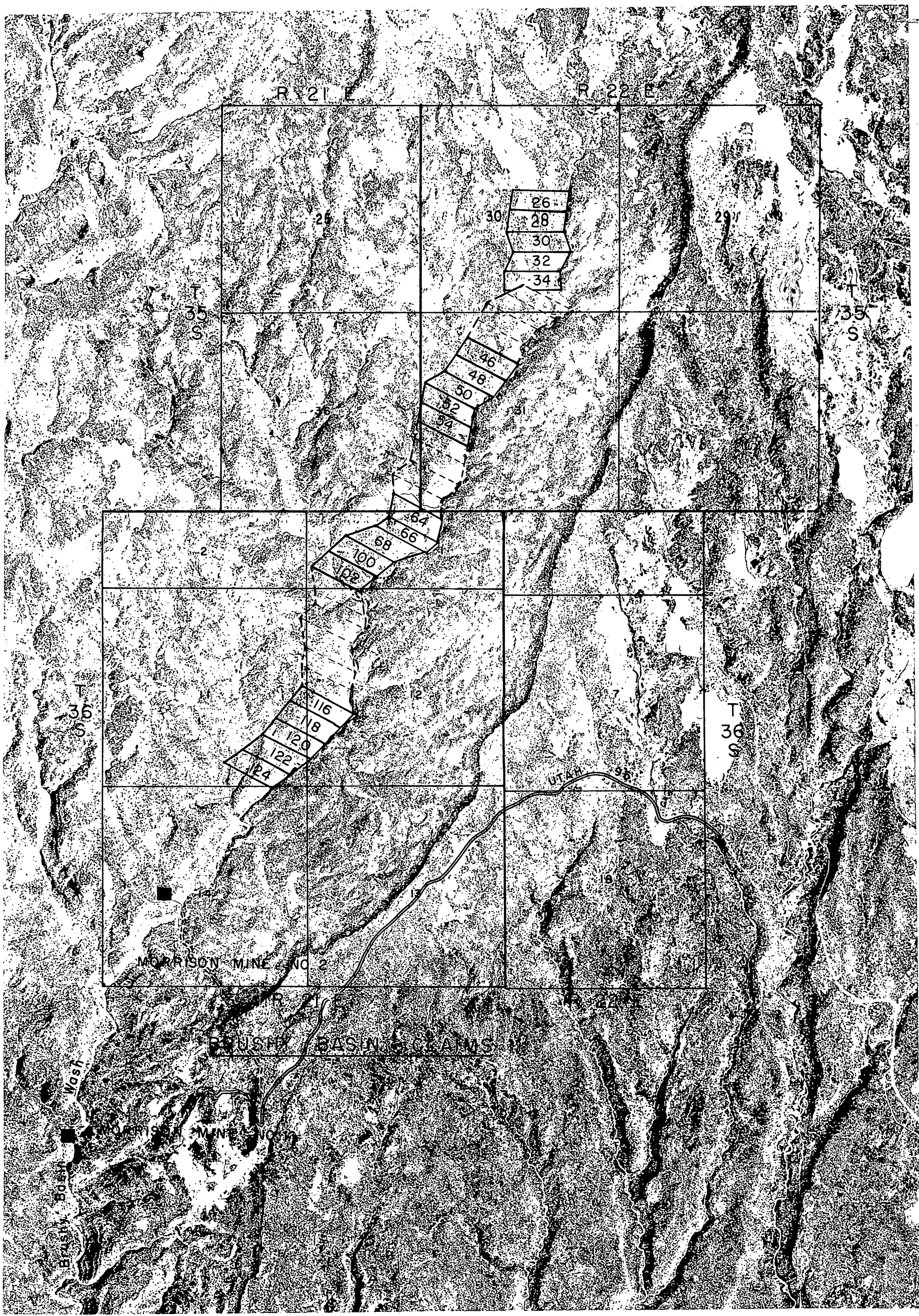
GEOLOGIC AND TOPOGRAPHIC MAP AND SECTIONS OF THE ABAJO AREA, SAN JUAN COUNTY, UTAH

Horizontal scale

1 0 1 Miles

Vertical scale

5000 0 10000 Feet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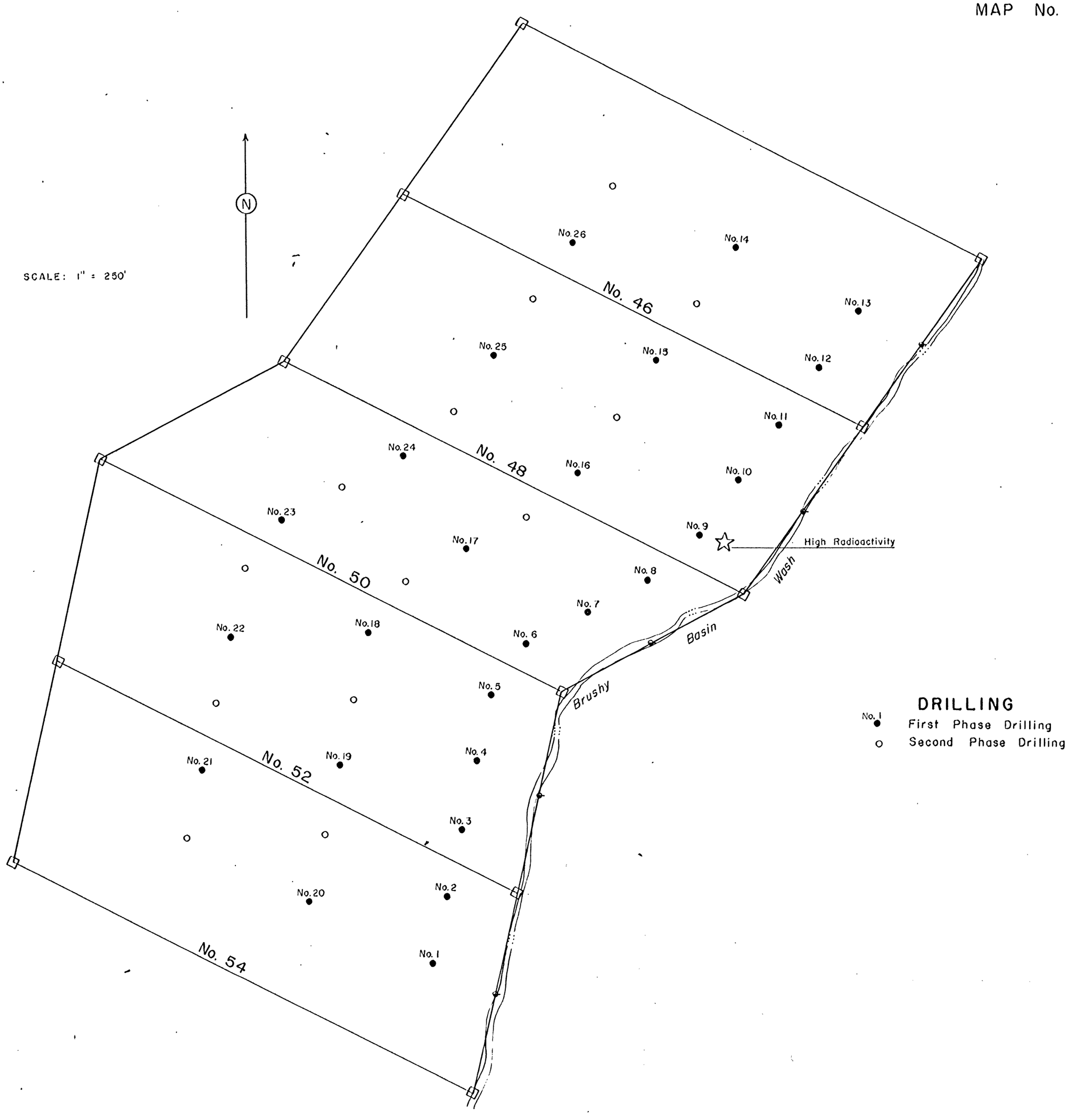
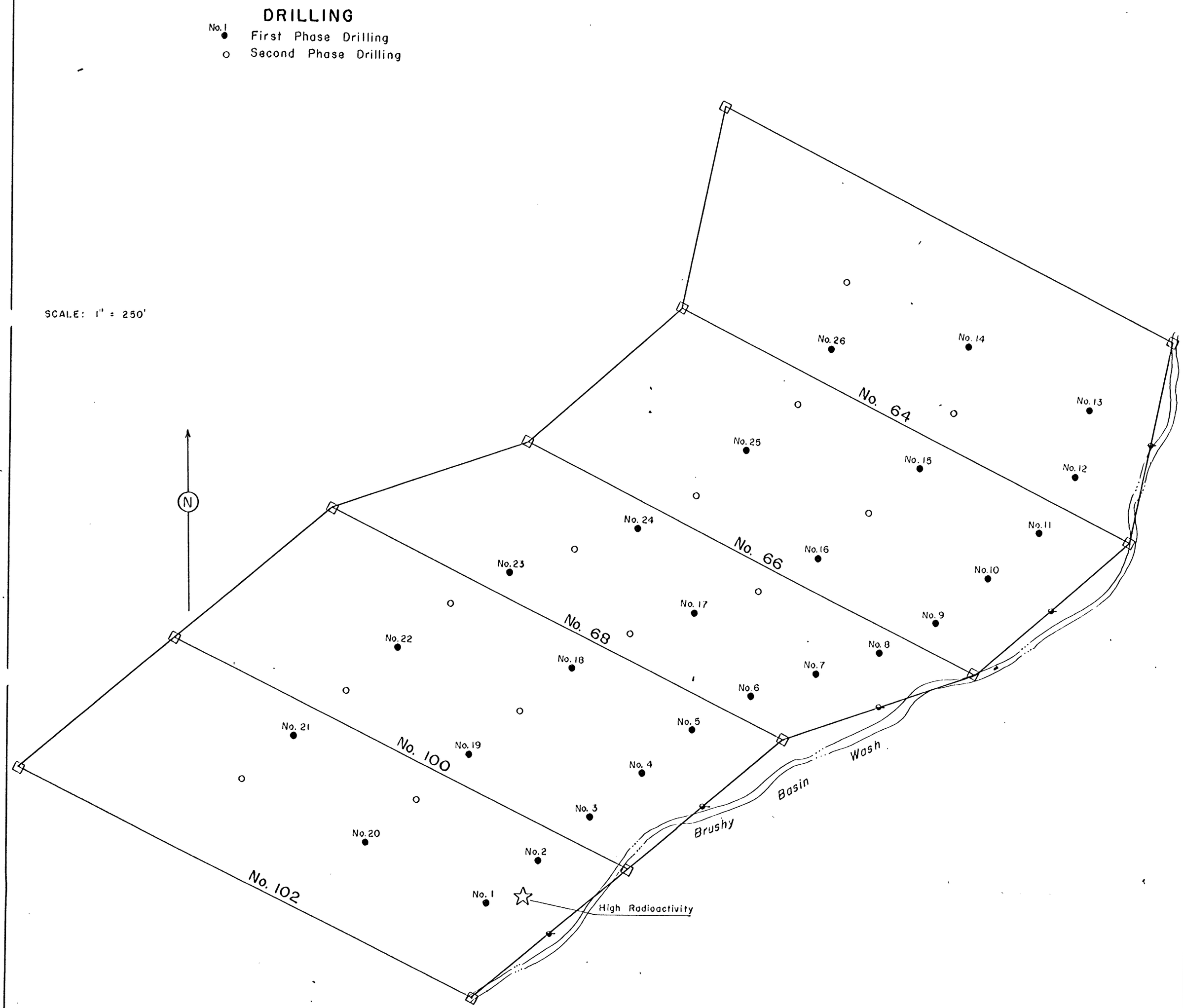
UTAH 95
MORRISON MINE NO 2
R 21 E
R 22 E
BRUSHY BASIN CLAIMS
Brushy Wash
MORRISON MINE NO 1

MAP No. 3



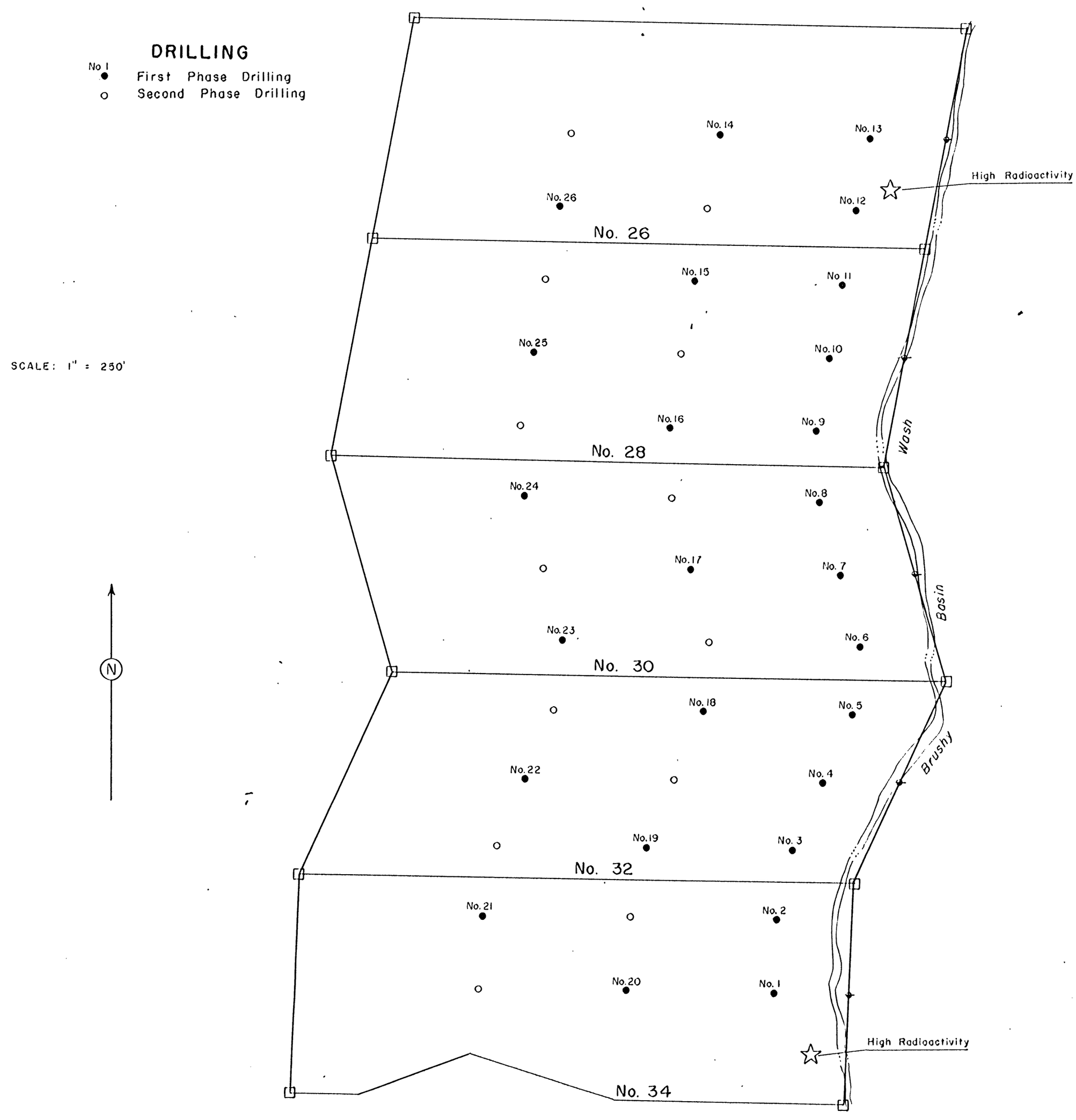
NORTH MIDDLE GROUP (5) BRUSHY BASIN CLAIMS

MAP No. 2



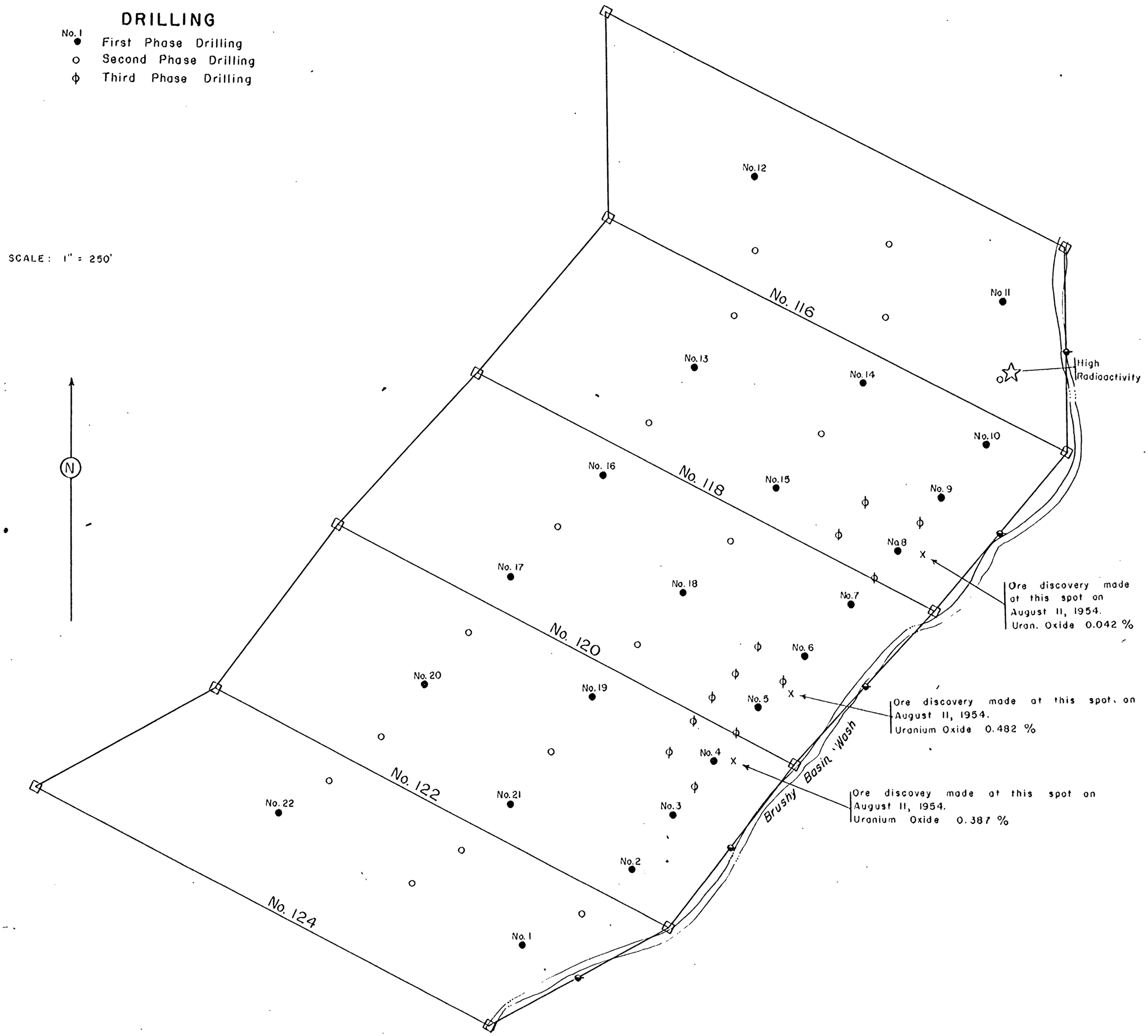
SOUTH MIDDLE GROUP (5) BRUSHY BASIN CLAIMS

MAP No. 4

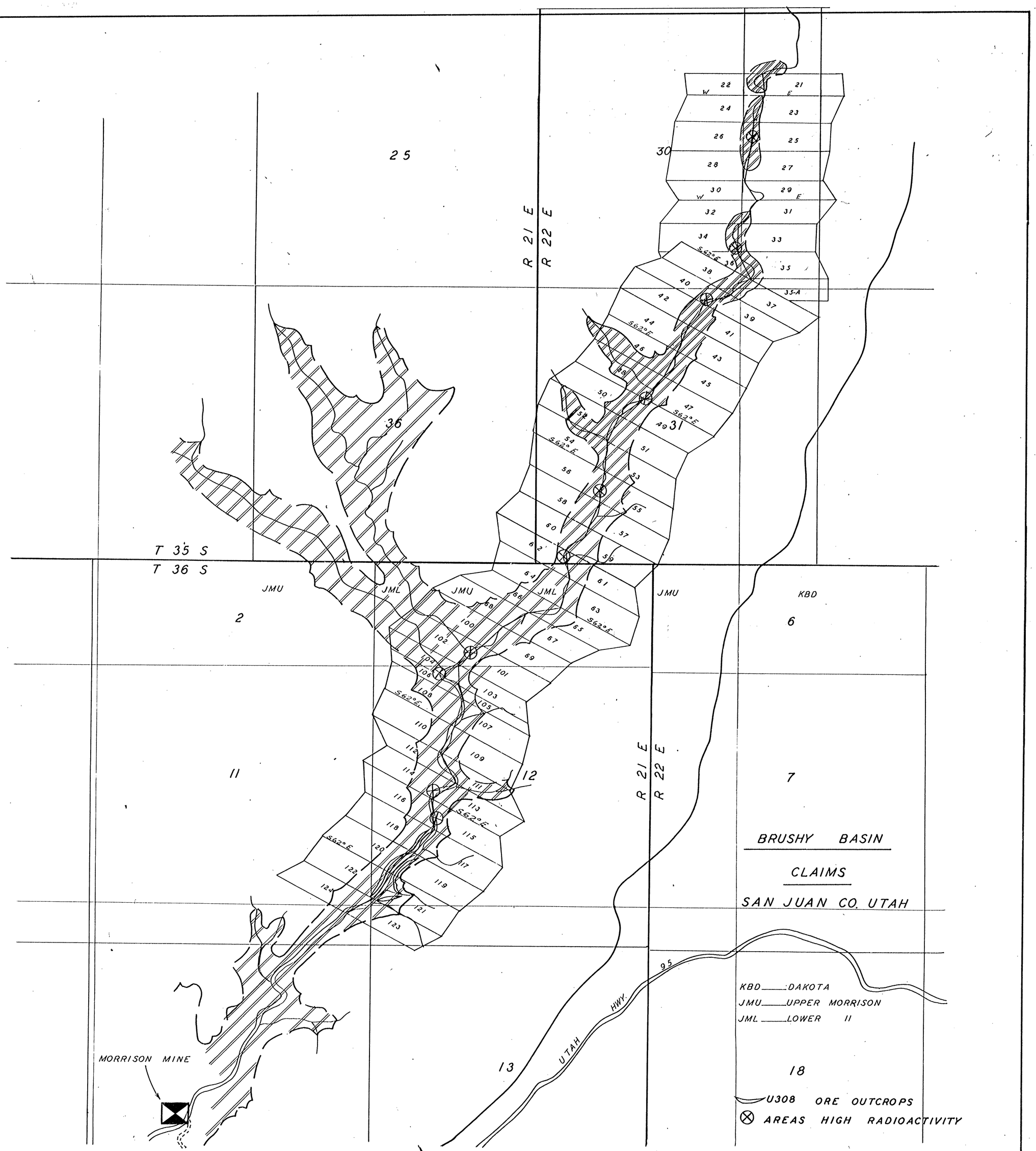


NORTH GROUP (5) BRUSHY BASIN CLAIMS

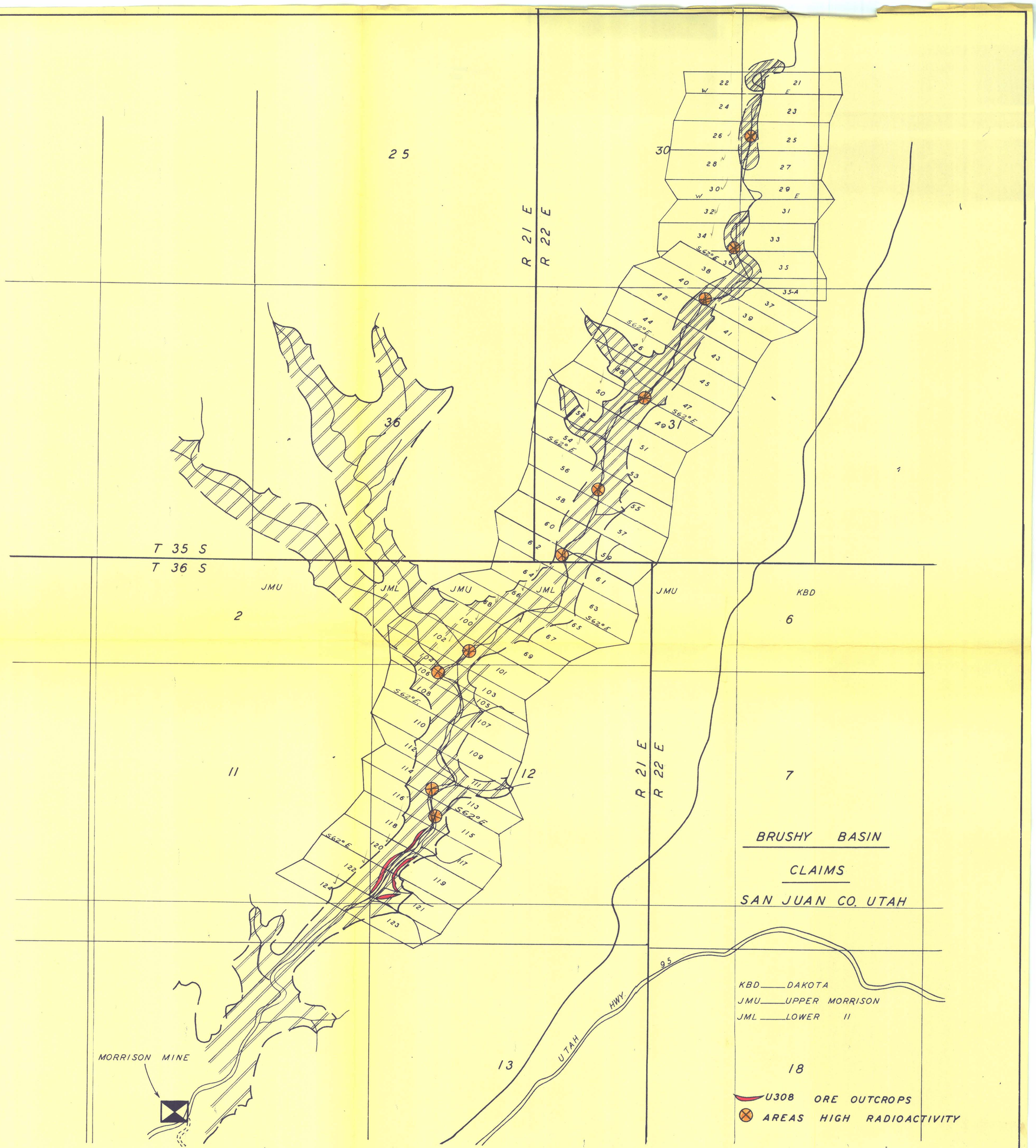
MAP No. 1



SOUTH GROUP (5) BRUSHY BASIN CLAIMS



Dean Roland 8'54
DEAN ROLAND, GEOLOGIST.



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