Surname 700

Ching
Ellis
Nelson
Yoss
Selfridge

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

SEP 20 1955

Lucky Strike Uranium Corporation
c/o Mr. Nathan Weschler
1010 Vermont Avenue, N. W.
Washington, D. C.

Re: Docket No. DMEA-3844 (Uranium)
South Lisbon Valley Claims
San Juan County, Utah

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington concerning your 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,

Frank E. Johnson

ACTING Administrator

MChing:am
9-16-55
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. Ching
DMEA Field Team, Region III(2)

R.C.G.

(Docket Copy) 700

Ching
Ellis
Nelson

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

September 16, 1955

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-3844

Commodity: Uranium

Applicant: Lucky Strike Uranium Corporation
38 South Main Street
Salt Lake City, Utah

Property: Big Chief, Bottom, Johnny, Poor Boy, and Squaw groups, consisting of 49 claims in Sections 15, 16,21,22,27,28,33 and 34, T.31S., R.26E., S.L.M., San Juan County, Utah. Applicant is the owner.

Date of Application: May 31, 1955

Amount of Application: $36,313 (Stated as $38,313.00 due to error in addition).

Work Proposed: Test the Salt Wash with 6,600 feetof wagon drilling and 7,000 feet of dry rotary drilling in two stages. 9,100 feet of drilling in Stage I to be followed by 4,500 feet in Stage II.

Estimated Costs:

Independent Contracts

6,600 ft. wagon drilling @ $1.00/ft.	$6,600.00
7,000 ft. rotary drilling @ $2.00/ft.	14,000.00
Bulldozing 20 days @ $125/day	2,500.00
Assaying	2,000.00
Labor, supervision and consultants	4,000.00
Other costs	3,730.00
Contingencies	3,483.00
Total	$36,313.00
Government participation @ 75%	$27,234.75

Field Team Report: August 18, 1955. M. H. Salsbury, USBM
Frank M. Byers, USGS

The property is underlain largely by the Brushy Basin and Salt Wash members of the Jurassic Morrison formation in an area where only two small uranium-vanadium deposits have been mined to date and one small surface deposit of uneconomic size exposed. The Liberty (Sitton) mine, just west of the Poor Boy No. 1 Claim, has produced approximately 250 tons of 0.31% U_3O_8 ore from the Salt Wash, and the Blue Clay open pit east of the Log claims has produced approximately 32 tons of 0.14% U_3O_8 ore from the Brushy Basin. The nearest mine with a potential of any consequence is the Queen Mary, 3 miles to the northwest.

Seven holes drilled for assessment requirements on the Betty and Poor Boy claims failed to reveal significant mineralization on the property or evidence of any extension of nearby ore occurrences. Drilling on near-by claims have had insignificant results.

Conditions are very similar to those existing on the adjoining Uranium Chief, Inc., property. An application for Government assistance in exploring this property under Docket DMEA-3663 was denied.

It is concluded that geological conditions are unfavorable for an exploration project; consequently denial of the application is recommended.

Commodity Committee Members' Comments:

Geological Survey - N. E. Nelson - September 8, 1955

The claims are underlain by the Brushy Basin and Salt Wash formation, but the thickness, crossbedding, channel scouring, and gray mudstone beds, considered essential for worthwhile uranium mineralization are probably missing. Work on adjoining and near-by claims has provided some production. Limited drilling on the subject claims and on the near-by Liberty claim provided unencouraging results. Concurs with the Field Team recommendation of denial.

Bureau of Mines - John E. Crawford - September 15, 1955

Discussed the report of examination with the AEC representative and concurs in the conclusions and recommendation of the Field Team.

Rare and Miscellaneous Metals Division - Michael Ching
September 12, 1955

The history of exploration and production of the immediately surrounding areas has not been encouraging. The Liberty (Sitton) mine immediately to the west of the main body of applicant's claims has produced an estimated 250 tons of ore containing 0.31% U_3O_8 and 2.63% U_2O_5. The mine has been inactive in recent years. Current wagon drilling east of the mine has not encountered ore. The property of Uranium Chief, Incorporated, which surrounds the Liberty claims and adjoins the applicant's property was considered unfavorable for an exploration project and denied without prejudice under Docket 3663. Uranium Chief is currently doing some drilling on its property, but results are not available.

The Blue Clay open pit, east of the main body of applicant's claims has produced approximately 32 tons of ore containing 0.14% U_3O_8 and 1.04% V_2O_5. This production was from the Brushy Basin, not the Salt Wash. The Federal Uranium Company is reported to have outlined a shallow ore body by drilling just east of the open cut, but details are not available.

A small ore body of a few tons was exposed by a discovery pit on the Little Indian claim which is surrounded by applicant's Betty group.

The limited extent of the foregoing ore bodies indicate that any deposits found on the Lucky Strike property are not likely to be of significant size. This fact, together with the unfavorable geological conditions prevailing in the area and the negative results of preliminary drilling, leads to the conclusion that an exploration project is not warranted.

Conclusions and Recommendations:

The chances of making a worthwhile discovery by the proposed exploration are not good. It is recommended that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

9/16/55 gla

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

RECEIVED
SEP 15 1955

September 15, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3844, Lucky Strike Uranium Corporation, San Juan County, Utah

I have reviewed the report of examination of the Field Team, Lucky Strike Uranium Corporation, DMEA Docket 3844; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The Lucky Strike Uranium Corporation has proposed to explore their group of claims in San Juan County, Utah, by drilling on a 500-foot grid on an undetermined pattern. The program would require 13,600 feet of dry drilling at a total estimated cost of $38,313.00.

The additional information requested in my memorandum of June 10, 1955, evidently was not submitted by the applicant; the application at that time appeared to be essentially a prospecting venture and I was reluctant at that time to recommend a field examination.

The field examiners conclude in their report that there are no known deposits or significant evidence of mineralization on the subject property and available data does not indicate the extension of known ore bodies into the property, and therefore recommend that the application be denied.

We concur in the recommendation of the field examiners 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
SEP 15 1955

September 15, 1955

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Uranium Commodity Committee, Room 4445

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Uranium Commodity Committee

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John E. Crawford

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

RECEIVED
SEP 15 1955

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John E. Crawford

9/9/55 glc

IN REPLY REFER TO:

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

RECEIVED
SEP - 9 1955

September 8, 1955

Re: DMEA 3844
Lucky Strike Uranium Corp.
Betty, Bottom, Big Chief,
Johnny, Log, Poor Boy and
Squaw Groups
San Juan Co., Colorado
$38,313.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The applicant has asked for assistance in wagon (6,600 feet) and dry rotary drilling (7,000 feet) at an estimated cost of $38,313.00. No definite drilling layout has been presented.

The claims are located in an area underlain by the Brushy Basin and Salt Wash sandstone formations, but the thickness, crossbedding, channel scouring and gray mudstone beds, considered essential for worthwhile uranium mineralization are probably missing in the applicant's claims. Work on adjoining and near-by claims has provided some production, in one case, the Sitton mine, 250 tons of 0.31% U_3O_8 and 2.63% V_2O_5. Drilling on the applicant's claims, 4 holes, returned only slight mineralization, and on the near-by Liberty claim drilling had (to the time of the examination) provided negative results.

The examiners conclude that there is no indication of the extension of known orebodies on adjacent ground into the subject claims and no known deposits or significant evidence of mineralization on the subject property. Such being the case the denial recommendation is justified.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

September 8, 1955

Re: DMEA 3844
Lucky Strike Uranium Corp.
Betty, Button, Big Chief,
Johnny, Log, Four Boy and
Spoor Groups
San Juan Co., Colorado
$38,313.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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The examiners conclude that there is no indication of the extension of known orebodies on adjacent ground into the subject claims and no known deposits or significant evidence of mineralization on the subject property. Such being the case the denial recommendation is justified.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-9/8/55
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.

September 8, 1955

Re: DMEA 384
Lucky Strike Uranium Corp.
Betty, Button, Big Chief,
Johnny, Leg, Four Bug and
Squaw Groups
San Juan Co., Colorado
$38,313.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The applicant has asked for assistance in wagon (6,600 feet) and dry rotary drilling (7,000 feet) at an estimated cost of $38,313.00. No definite drilling layout has been presented.

The claims are located in an area underlain by the Brushy Basin and Salt Wash sandstone formations, but the thickness, crossbedding, channel scouring and gray sandstone beds, considered essential for worthwhile uranium mineralization are probably missing in the applicant's claims. Work on adjoining and near-by claims has provided some production, in one case, the Kitten mine, 550 tons of 0.31% U_3O_8 and 2.63% V_2O_5. Drilling on the applicant's claims, 4 holes, returned only slight mineralization, and on the near-by Liberty claim drilling had (to the time of the examination) provided negative results.

The examiners conclude that there is no indication of the extension of known orebodies on adjacent ground into the subject claims and no known deposits or significant evidence of mineralization on the subject property. Such being the case the denial recommendation is justified.

I concur with that recommendation.

H. E. Nelson

HENelson:iml
G-9/8/55
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.

September 6, 1955

Re: DMEA 3844
Lucky Strike Uranium Corp.
Betty, Button, Big Chief,
Johnny, Leg, Four Bay and
Square Groups
San Juan Co., Colorado
$36,313.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The applicant has asked for assistance in wagon (6,600 feet) and dry rotary drilling (7,000 feet) at an estimated cost of $36,313.00. No definite drilling layout has been presented.

The claims are located in an area underlain by the Brushy Basin and Salt Wash sandstone formations, but the thickness, crossbedding, channel scouring and gray sandstone beds, considered essential for worthwhile uranium mineralization are probably missing in the applicant's claims. Work on adjoining and near-by claims has provided some production, in one case, the Sitton mine, 250 tons of 0.31% U_3O_8 and 2.63% V_2O_5. Drilling on the applicant's claims, 4 holes, returned only slight mineralization, and on the near-by Liberty claim drilling had (to the time of the examination) provided negative results.

The examiners conclude that there is no indication of the extension of known orebodies on adjacent ground into the subject claims and no known deposits or significant evidence of mineralization on the subject property. Such being the case the denial recommendation is justified.

I concur with that recommendation.

E. E. Nelson

EENelson:iml
G-9/8/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

E. E. Nelson

9/12/55 gla

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

RECEIVED
SEP 1955

August 31, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 3844 (Uranium), Lucky Strike Uranium Corporation, San Juan County, Utah

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

We concur in the recommendation of the field examiners that the application be denied.

W. M. Traver

for E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
9-9-55
(date)

RECEIVED
SEP 1 1955

Building 20
Denver Federal Center
Denver 3, Colorado
August 25, 1955

Region III

TRANSMITTED
AUG 31 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman
John F. Shaw

Subject: Docket No. DMEA 3844, Lucky Strike Uranium Corporation, San Juan County, Utah

Enclosed are the original and ten copies of a Joint Engineering and Geologic report by M. H. Salsbury, Mining Engineer and Frank M. Byers, Geologist covering Docket No. DMEA 3844.

The Lucky Strike Uranium Corporation applied for exploration assistance in the amount of $38,313.00 to explore their mining claims in the South Lisbon Valley area, San Juan County, Utah. The project calls for 6,600 feet of wagon drilling and 7,000 feet of dry rotary-drilling in two stages.

The property was examined on July 19, 1955 by Howard Albee and Frank Byers, geologists, and M. H. Salsbury, mining engineer.

The examining team concluded that the proposed project would not result in the discovery of a significant amount of Uranium. It is recommended that the application be denied.

E. N. Harshman

E. N. Harshman
Member Field Team

John F. Shaw

John F. Shaw
Supervising Mining Engineer

JFS:jw

cc: w/orig.
Wm. P. Hasler ✓
EN Harshman
DMEA 3844
Chron.

Reviewed by
DMEA OPERATING COMMITTEE
9-9-55
(date)

RECEIVED
SEP - 5 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3844

Betty, Bottom, Big Chief, Johnny, Log, Poor Boy, and Squaw Groups

Lucky Strike Uranium Corporation

San Juan County, Utah

Uranium

Reviewed by
DMEA OPERATING COMMITTEE
9-9-55
(date)

By

M. H. Salsbury
Mining Engineer
Bureau of Mines

Frank M. Byers
Geologist
Geological Survey

August 18, 1955

9/7/55 glen

SEP - 3 1955
RECEIVED

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

August 31, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

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We concur in the recommendation of the field examiners that the application be denied.

W. M. Traver
W. M. Traver

for D K Macharen
E. H. Harshman

Enclosures

RECEIVED
SEP 6 1955

Building 20
Denver Federal Center
Denver 3, Colorado
August 25, 1955

TRANSMITTED
AUG 31 1955

Region III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

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The property was examined on July 19, 1955 by Howard Albee and Frank Byers, geologists, and M. H. Salsbury, mining engineer.

The examining team concluded that the proposed project would not result in the discovery of a significant amount of Uranium. It is recommended that the application be denied.

E. N. Harshman

E. N. Harshman
Member Field Team

John F. Shaw

John F. Shaw
Supervising Mining Engineer

JFS:jw

cc: w/orig.
Wm. P. Healer
ENHarshman
DMEA 3844
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 344

Betty, Bottom, Big Chief, Johnny,

Lou, Poor Boy, and Sunny Groups

Lucky Strike Uranium Corporation

San Juan County, Utah

Uranium

By

M. H. Salsbury
Mining Engineer
Bureau of Mines

Frank N. Myers
Geologist
Geological Survey

August 16, 1953

DMEA 3844

BETTY, BOTTOM, BIG CHIEF, JOHNNY,
LOG, POOR BOY, AND SQUAW GROUPS
LUCKY STRIKE URANIUM CORPORATION
SAN JUAN COUNTY, UTAH

Joint Engineering and Geologic Report

By

M. H. Salisbury
Mining Engineer
Bureau of Mines

Frank M. Byers
Geologist
Geological Survey

DMEA 3844

BETTY, BOTTOM, BIG CHIEF, JOHNNY,
LOG, POOR BOY AND SQUAW GROUPS
LUCKY STRIKE URANIUM CORPORATION
SAN JUAN COUNTY, UTAH

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Local geology 8
Mineral deposits 8
Ore reserves 11
Proposed exploration 12
Conclusions and recommendations 12

ILLUSTRATIONS

Figure — Follows Page

1. Location map, Betty, Bottom, Big Chief, Johnny, Log, Poor Boy and Squaw claim groups, Lucky Strike Uranium Corporation, San Juan county, Utah 1

2. Geologic and claim map of area including Lucky Strike claims, T. 31 S., R. 25 E., Salt Lake Meridian, San Juan County, Utah 2

TABLES

Table

1. Production for properties near those held by Lucky Strike Uranium Corporation 5

2. Generalized stratigraphic section of rocks exposed in and near Big Indian Wash, Lisbon Valley area, Colorado-Utah 8

DMEA 384

BETTY, BOTTOM, BIG CHIEF, JUNEBUG,
LOG, POOR BOY, AND SQUAW GROUPS
LUCKY STRIKE URANIUM CORPORATION
SAN JUAN COUNTY, UTAH

JOINT ENGINEERING AND GEOLOGIC REPORT

By M. R. Salsbury and F. M. Byers, Jr.

INTRODUCTION AND SUMMARY

The Lucky Strike Uranium Corporation, 38 South Main Street, Salt Lake City, Utah, has applied for Defense Minerals Exploration Administration assistance in a wagon-and dry rotary-drilling project on their claims located in the South Lisbon Valley area, San Juan County, Utah (fig. 1). The project calls for 6,600 feet of wagon drilling and 7,000 feet of dry rotary-drilling in two stages at an estimated cost of $38,313.00, in which Government participation at 75 percent would amount to $28,734.75. The applicant does not present a definite drilling plan.

The property was examined on July 19, 1955 by Howard Albee and Frank Byers of the Geological Survey, and M. R. Salsbury of the Bureau of Mines. R. J. Crowley, consulting geologist, substituted for John G. St. Clair as a representative of the applicant.

The claims are underlain largely by the Brushy Basin and Salt Wash members of the Jurassic Morrison formation in an area in which only two small commercial uranium-vanadium deposits have been mined to date. One of these was found prior to 1944 in the Liberty (Sitton) mine just

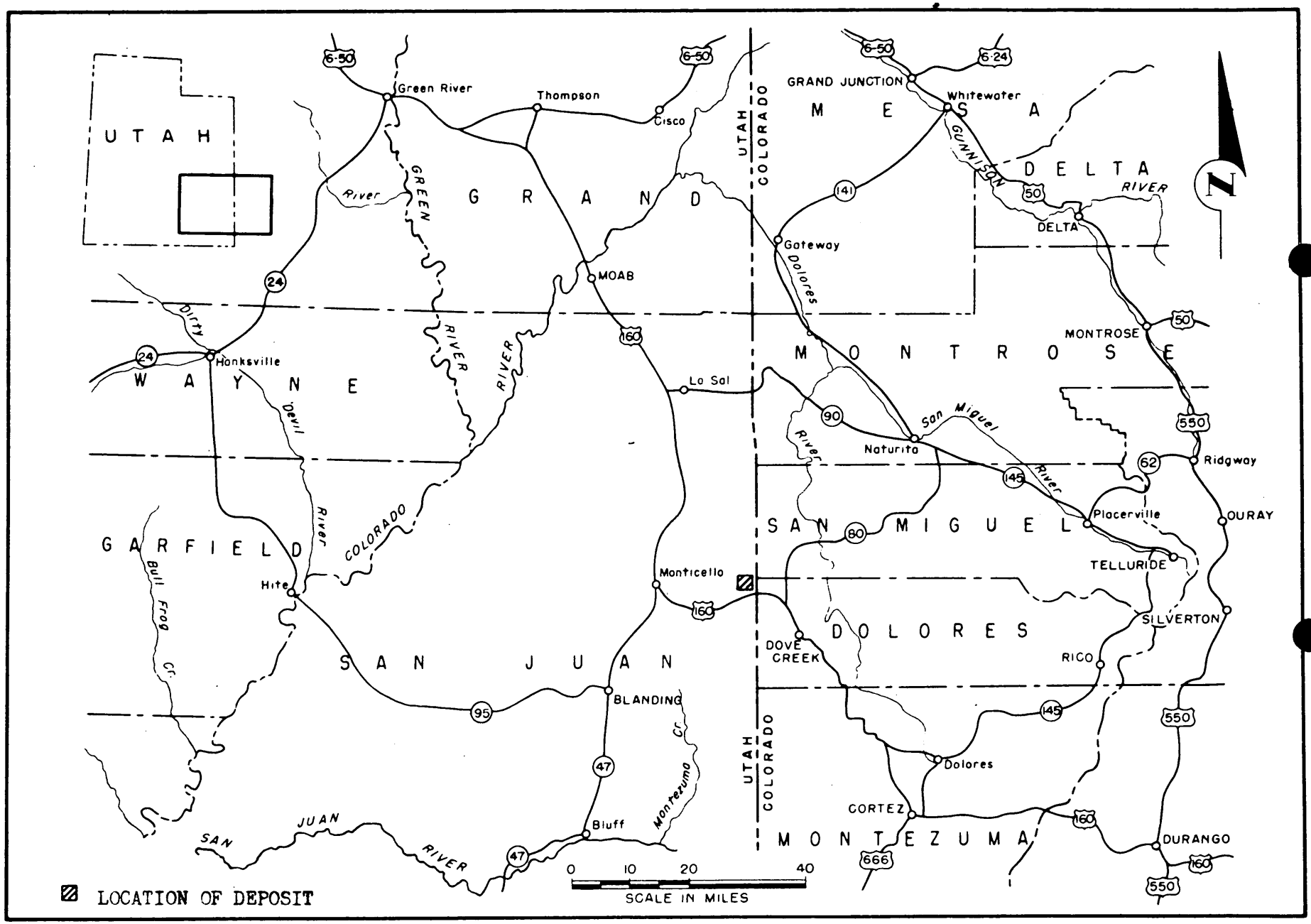


FIGURE 1 - LOCATION MAP, BETTY, BOTTOM, BIG CHIEF, JOHNNY, LOG, POOR BOY AND SQUAW CLAIM GROUPS, LUCKY STRIKE URANIUM CORPORATION, SAN JUAN COUNTY, UTAH. DMEA 3844

west of the largest group of the applicant's claims (fig. 2). A small surface deposit which does not appear to be of minable size has been found on the Little Indian claim of different ownership in the center of the applicant's Betty group. The Blue Clay open pit, also of different ownership, east of the Lag group has been excavated in a low-grade Brushy Basin deposit.

The nearest mine with a production record and established potential of any consequence is the Queen Mary on the Three Step Hill, 3 miles to the northwest. However, the ore occurs here above the Salt Wash unit which the applicant proposes to test by drilling.

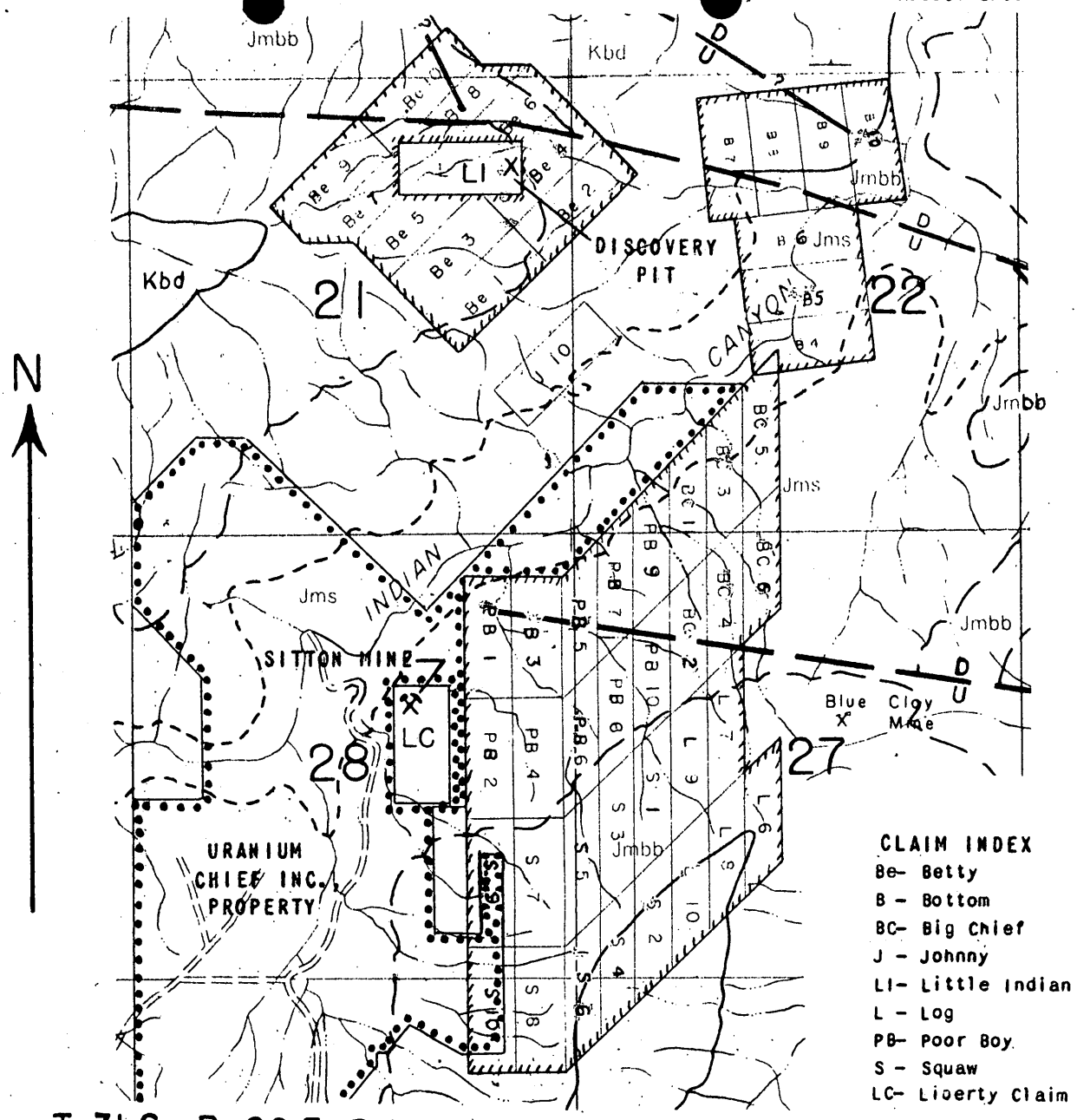
Seven holes drilled for assessment requirements on the Betty and Poor Boy groups have not revealed mineralization on the property nor any evidence of any extension of nearby ore occurrences.

Conditions are very similar to those existing on adjoining property owned by Uranium Chief, Incorporated. An application for Government assistance in exploration of this property under RMEA 3663 was denied. Uranium Chief is currently carrying out a drilling program with undisclosed results.

It is concluded that the proposed project under RMEA 3644 is unfavorable geologically and economically. Denial of the request for Government assistance is recommended.

ACKNOWLEDGMENTS

Data on the property were furnished by the applicant in a geological



T. 31 S., R. 26 E., S. L. M.

EXPLANATION

Kbd CRETACEOUS-BURRO CANYON FORMATION AND DAKOTA SANDSTONE UNDIFFERENTIATED

Jmbb BRUSHY BASIN MEMBER OF THE JURASSIC-MORRISON FORMATION

Jms SALT WASH MEMBER OF THE JURASSIC MORRISON FORMATION. DASHED LINE SHOWS POSITION OF BASE OF CARNOTITE-BEARING SANDSTONE

FORMATION CONTACT

FAULT, SHOWING RELATIVE MOVEMENT

BOUNDARY OF LUCKY STRIKE URANIUM PROPERTY

BOUNDARY OF URANIUM CHIEF INC. PROPERTY, DOCKET NO. 3663

Note: BASE FROM U. S. GEOLOGICAL SURVEY PHOTOGEOLOGIC QUADRANGLE MAP MT. PEALE 16.
CLAIM LOCATIONS FROM APPLICANT'S MAP

2000 0 4000 FEET

Figure 2. GEOLOGIC AND CLAIM MAP OF AREA INCLUDING LUCKY STRIKE CLAIMS, T. 31 S., R. 26 E. S. L. M., SAN JUAN COUNTY, UTAH

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No improvements other than access roads have been made.

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The 49 claims of the Lucky Strike Uranium Corporation are largely in the Salt Wash and Brushy Basin members of the Jurassic Morrison formation; parts of 18 claims are underlain by the Burro Canyon formation and the Dakota sandstone of cretaceous age (fig. 2). A generalized stratigraphic section after Dodson and Weir is given in Table 2.[1/] According to Dodson and Weir, the Salt Wash member exposed on the subject applicant's claims contains horizontally bedded and cross-bedded sandstone units, less than 30 feet in maximum thickness, interrelated

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Table 2. -- Generalized stratigraphic section of rocks exposed in and near Big Indian Wash, Lisbon Valley area, Colorado-Utah

System or period	Group	Formation	Estimated thickness (feet)	Character of rocks
Quaternary		Alluvium	0-50	Sandy and silty material in part cemented in streams and valleys.
		Gravel	0-50	Boulders, cobbles, and pebbles in sandy matrix, unconsolidated.
Upper Cretaceous		Mancos shale	200	Gray marine shale, fossiliferous at base; covers parts of mesas, Upper part removed by erosion.
Upper Cretaceous		Dakota sandstone	50-100	Gray and brown sandstone, brown carbonaceous shale and impure coal.
Lower Cretaceous		Burro Canyon	160-250	Brown conglomerate and sandstone and bright green and reddish shale and mudstone; commonly silicified to a dense quartzite in the Lisbon Valley faults zone.
Upper Jurassic		Morrison	300-420	Brushy Basin member; varicolored mudstone; some sandstone and conglomerate lenses commonly near base.
			300-375	Salt Wash Member; light colored sandstone and red and gray mudstone.

with reddish gray sandstone. Sandstone beds that contain uraniferous ore bodies in other areas are commonly 40 feet or more in thickness, strongly cross-bedded, and underlain by channel-scoured, gray sandstone. These features are lacking in the sandstone beds exposed on the subject applicant's property, and hence the Salt Wash sandstone beds are not likely to contain ore bodies of economic significance in this area.

Mineral Deposits

No ore-bearing or mineralized ground was observed by the examining team on any of the claims held by the Lucky Strike Uranium Corporation, but weakly mineralized uraniferous sandstone is reported in a few holes drilled by the applicant. Four holes drilled on the Betty Nos. 3 and 5 claims and three holes drilled along west side line of the Poor Boy No. 1 claim were located to cut possible extensions of known mineralization on the Little Indian and Liberty claims, respectively. Radioactivity slightly above background was reported on probing the holes on the Poor Boy claims, and several chemical analyses of cuttings were reported to range from 0.03 to 0.05 percent U_3O_8, according to Walter Snyder.

Ore-bearing or mineralized ground is exposed in three sandstone beds at different stratigraphic positions on adjacent properties. The Sitton mine and the prospect pit on the Little Indian claim are in sandstone beds of the Salt Wash, and the Elma Clay mine or open cut was excavated on a sandstone bed in the lower part of the Brushy Basin.

The Sitton mine on the Liberty Claim, adjoining the subject appli-

cant's claims (fig. 2), consists of two drifts: one about 75 feet in length and the other about 225 feet with a stope about 20 by 30 feet near the heading. The workings are in the second or third sandstone bed from the top of the Salt Wash. The ore-bearing layer now exposed in the walls is a blue-black carnotite-type mineral, according to Dodson and Weir, and has a maximum thickness of about three inches presently exposed. No ore is exposed in the headings of the drifts, and there is no evidence to suggest that the ore body exposed in the Sitton mine extends onto the adjoining claims held by the Lucky Strike Uranium Corporation. In fact, a narrow halo of bleached gray sandstone is limited to the ore exposures and grades into reddish gray sandstone within a few tens of feet laterally around the exposed edge of the ore body. This relation is believed also to indicate that the ore body exposed in the Sitton mine is not extensive. The Carpenter Drilling Company of Madera, California, is currently drilling east of the mine workings in the general direction of the applicant's Poor Boy Nos. 1 and 2 claims, but no extension of the ore has been found to date.

A discovery pit near the eastern end of the Little Indian claim, which is surrounded by the Betty group of the subject applicant's claims (fig. 2), has exposed a small uranium-vanadium ore body of a few tons and of unknown grade. This small ore body is confined to a roll in cross-bedded sandstone at the top of the uppermost sandstone ledge of the Salt Wash. The roll extends southerly but is unmineralized outside the immediate vicinity of the prospect pit. An area about 10 feet square, including the prospect pit, shows anomalous radioactivity up

to 40 times above background. Little ore remains in place; the radioactivity is mainly derived from loose blocks of ore that litter the bottom and sides of the pit. An ore-bearing portion of the roll about 5 feet long and 2 feet in diameter has been pushed 15 feet north of the pit by bulldozer. At least one hole has been drilled near the surface pit by the Federal Uranium Company, but the results are unknown.

The Blue Clay Mine or open cut lies a few hundred feet east of the subject applicant's main group of claims (fig. 2) and is entirely within the Brushy Basin. The back of the cut reaches a maximum of 15 feet in height and is about 150 feet in length. Bluish gray mudstones are well exposed in the upper part of the cut. The upper 5 feet of a sandstone bed or ledge is exposed at one place in the lower part of the back of the cut. Limonite stains follow joint surfaces, but no other evidence of mineralization was seen. Readings taken with scintillometer over the exposed area of the cut varied from normal to twice background count. It is presumed that whatever ore may originally have been present was mined out prior to the DMEA examination. The Federal Uranium Company is reported to have outlined a shallow ore body by drilling just east of the open cut.

ORE RESERVES

No ore reserves in the measured or indicated category are present on the Lucky Strike Uranium property. The lack of favorable geologic controls and the smallness of the two known ore bodies on properties adjoining the Lucky Strike Uranium Corporation's holdings suggests

that any inferred ore bodies are likely to be 250 tons or less in size and would contain about 0.3 percent U_3O_8 and about 2.5 percent V_2O_5.

PROPOSED EXPLORATION

The applicant proposed to explore the property by drilling on a 500-foot grid, requiring an estimated 9,100 feet of drilling in 66 holes, to be followed by 4,500 feet of closer-spaced drilling on any favorable mineralization encountered. A total of 6,600 feet of wagon drilling at sites where the Salt Wash member is at surface, and 7,000 feet of dry rotary drilling at sites on Brushy Basin sediments, is proposed at an estimated cost of $38,313.00 in which Government participation at 75 percent would be $28,734.75. A definite drilling pattern is not presented. The cost estimate is high. Costs other than actual drilling, bulldozing and sample analysis, average .97 per foot of drilling. Unit cost prices for dry rotary drilling and bulldozing are also high.

CONCLUSIONS AND RECOMMENDATIONS

There are no known deposits or significant evidence of mineralization on the subject property. The results of limited drilling on the claims as well as drilling and mining operations on adjacent ground do not indicate an extension of known ore bodies into the property.

In addition, the known habit of ore occurrence, as evidenced by development done to date, indicates that ore bodies found in this area are likely to be small and scattered. Although a fair grade of ore can be expected in the Salt Wash member, the total uranium content in

relation to the area which must be explored is probably small. Even if there were better evidence of the presence of ore bodies of this nature on the applicant's claims, it does not appear likely that the probable production would justify the proposed exploration.

It is recommended that the application under DMEA 3044 be denied.

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DMEA 3844

BETTY, BOTTOM, BIG CHIEF, JOHNNY, LOG, POOR BOY, AND SQUAW GROUPS LUCKY STRIKE URANIUM CORPORATION SAN JUAN COUNTY, UTAH

Joint Engineering and Geologic Report

By

M. H. Salsbury
Mining Engineer
Bureau of Mines

Frank M. Byers
Geologist
Geological Survey

DMEA 3844

BETTY, BOTTOM, BIG CHIEF, JOHNNY,
LOG, POOR BOY AND SQUAW GROUPS
LUCKY STRIKE URANIUM CORPORATION
SAN JUAN COUNTY, UTAH

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ILLUSTRATIONS

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1. Location map, Betty, Bottom, Big Chief, Johnny, Log, Poor Boy and Squaw claim groups, Lucky Strike Uranium Corporation, San Juan county, Utah	1
2. Geologic and claim map of area including Lucky Strike claims, T. 31 S., R. 26 E., Salt Lake Meridian, San Juan County, Utah	2

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DMEA 3844

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JOINT ENGINEERING AND GEOLOGIC REPORT

By M. H. Salsbury and F. M. Byers, Jr.

INTRODUCTION AND SUMMARY

The Lucky Strike Uranium Corporation, 38 South Main Street, Salt Lake City, Utah, has applied for Defense Minerals Exploration Administration assistance in a wagon-and dry rotary-drilling project on their claims located in the South Lisbon Valley area, San Juan County, Utah (fig. 1). The project calls for 6,600 feet of wagon drilling and 7,000 feet of dry rotary-drilling in two stages at an estimated cost of $38,313.00, in which Government participation at 75 percent would amount to $28,734.75. The applicant does not present a definite drilling plan.

The property was examined on July 19, 1955 by Howard Albee and Frank Byers of the Geological Survey, and M. H. Salsbury of the Bureau of Mines. R. J. Crowley, consulting geologist, substituted for John Q. St. Clair as a representative of the applicant.

The claims are underlain largely by the Brushy Basin and Salt Wash members of the Jurassic Morrison formation in an area in which only two small commercial uranium-vanadium deposits have been mined to date. One of these was found prior to 1944 in the Liberty (Sitton) mine just

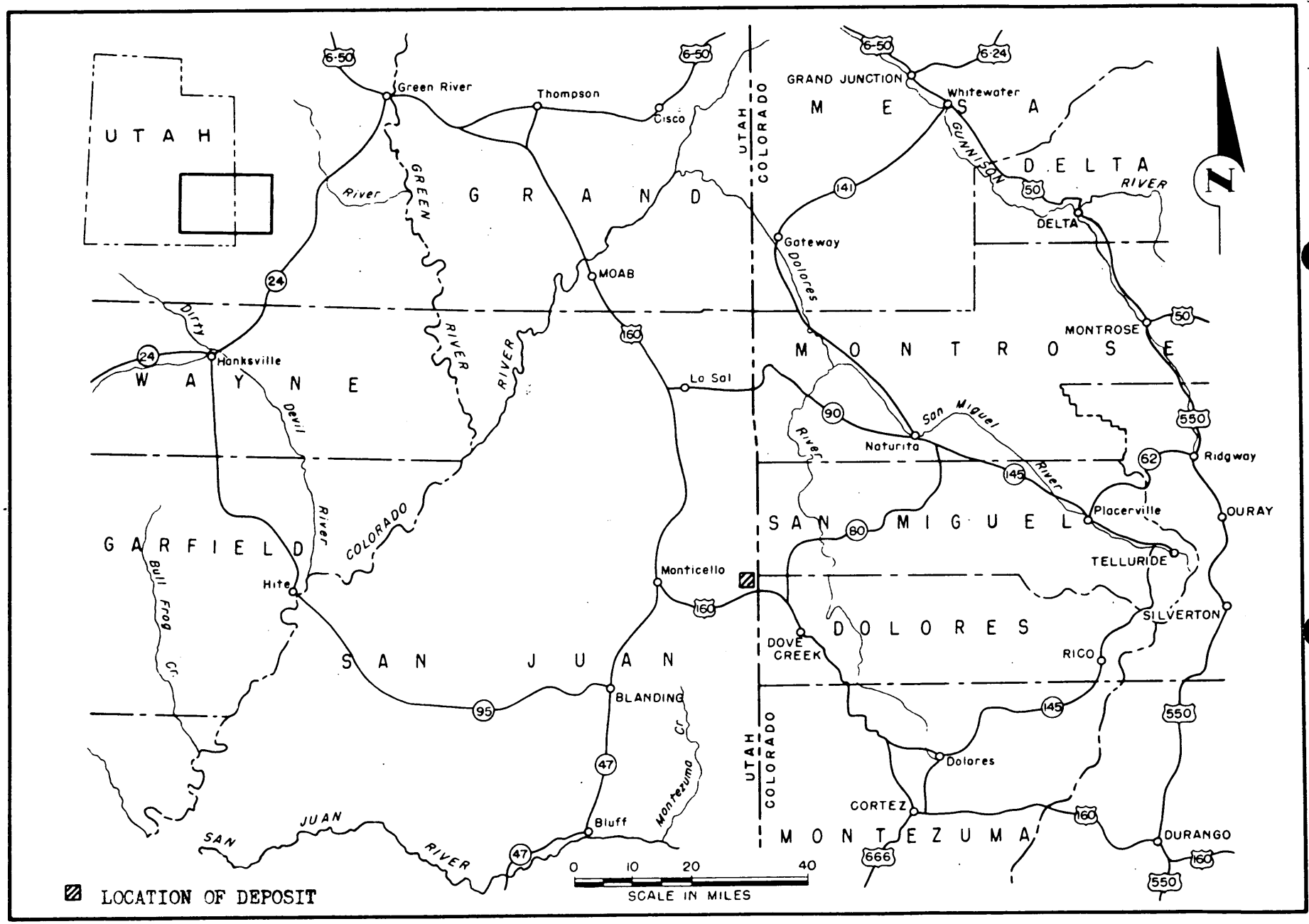

FIGURE 1 - LOCATION MAP, BETTY, BOTTOM, BIG CHIEF, JOHNNY, LOG, POOR BOY AND SQUAW CLAIM GROUPS, LUCKY STRIKE URANIUM CORPORATION, SAN JUAN COUNTY, UTAH. DMEA 3844

west of the largest group of the applicant's claims (fig. 2). A small surface deposit which does not appear to be of minable size has been found on the Little Indian claim of different ownership in the center of the applicant's Betty group. The Blue Clay open pit, also of different ownership, east of the Log group has been excavated in a low-grade Brushy Basin deposit.

The nearest mine with a production record and established potential of any consequence is the Queen Mary on the Three Step Hill, 3 miles to the northwest. However, the ore occurs here above the Salt Wash unit which the applicant proposes to test by drilling.

Seven holes drilled for assessment requirements on the Betty and Poor Boy groups have not revealed mineralization on the property nor any evidence of any extension of nearby ore occurrences.

Conditions are very similar to those existing on adjoining property owned by Uranium Chief, Incorporated. An application for Government assistance in exploration of this property under DMEA 3663 was denied. Uranium Chief is currently carrying out a drilling program with undisclosed results.

It is concluded that the proposed project under DMEA 3844 is unfavorable geologically and economically. Denial of the request for Government assistance is recommended.

ACKNOWLEDGEMENTS

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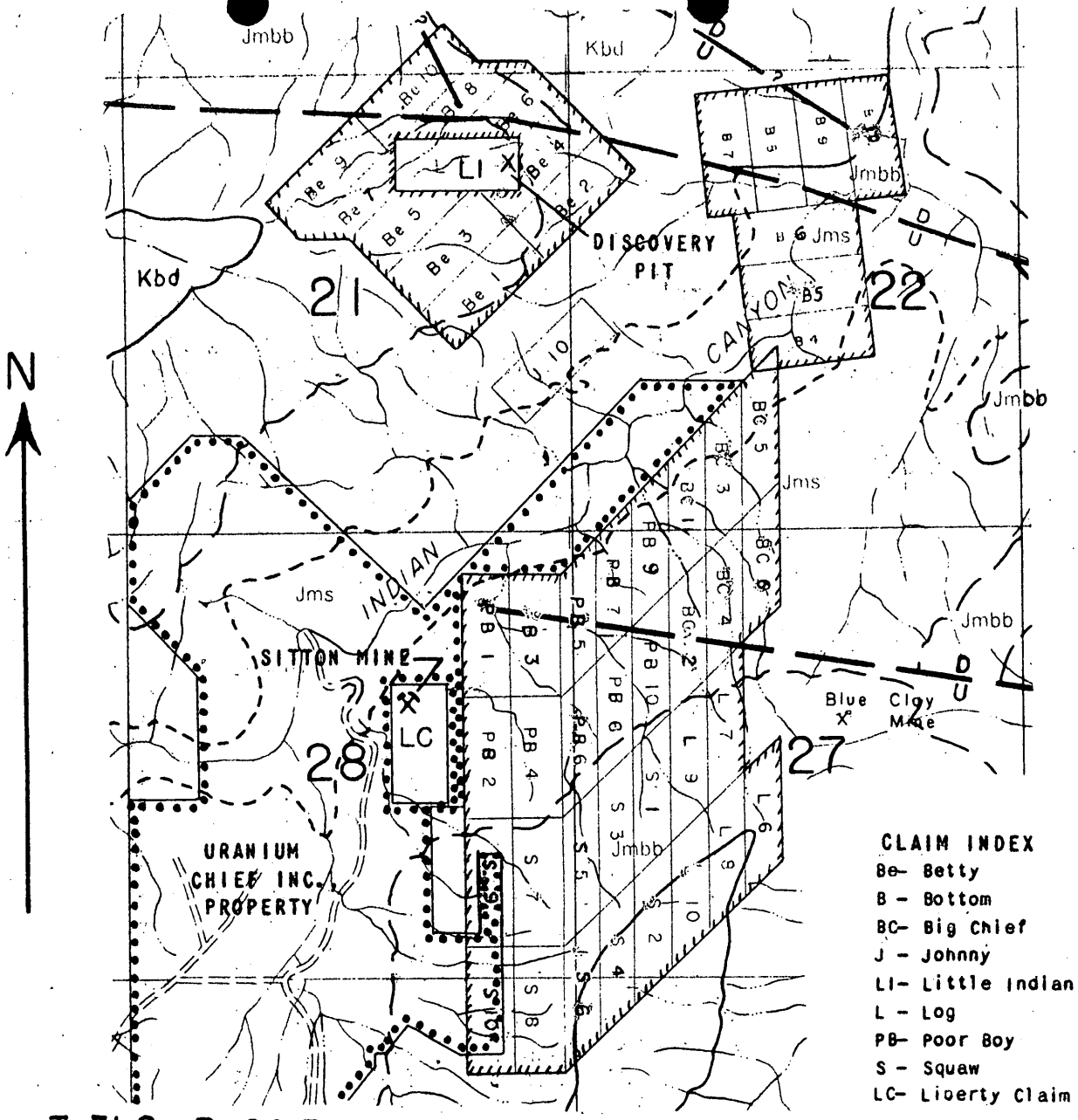

T. 31 S., R. 26 E., S. L. M.

EXPLANATION

Kbd CRETACEOUS-BURRO CANYON FORMATION AND DAKOTA SANDSTONE UNDIFFERENTIATED

Jmbb BRUSHY BASIN MEMBER OF THE JURASSIC-MORRISON FORMATION

Jms SALT WASH MEMBER OF THE JURASSIC MORRISON FORMATION. DASHED LINE SHOWS POSITION OF BASE OF CARNOTITE-BEARING SANDSTONE

FORMATION CONTACT

FAULT, SHOWING RELATIVE MOVEMENT

BOUNDARY OF LUCKY STRIKE URANIUM PROPERTY

BOUNDARY OF URANIUM CHIEF INC. PROPERTY, DOCKET NO. 3663

Note: BASE FROM U. S. GEOLOGICAL SURVEY PHOTOGEOLOGIC QUADRANGLE MAP MT. PEALE 16. CLAIM LOCATIONS FROM APPLICANT'S MAP

2000 0 4000 FEET

Figure 2. GEOLOGIC AND CLAIM MAP OF AREA INCLUDING LUCKY STRIKE CLAIMS, T. 31 S., R. 26 E. S. L. M., SAN JUAN COUNTY, UTAH

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with reddish gray mudstone. Sandstone beds that contain uraniferous ore bodies in other areas are commonly 40 feet or more in thickness, strongly cross-bedded, and underlain by channel-scoured, gray mudstone. These features are lacking in the sandstone beds exposed on the subject applicant's property, and hence the Salt Wash sandstone beds are not likely to contain ore bodies of economic significance in this area.

Mineral Deposits

No ore-bearing or mineralized ground was observed by the examining team on any of the claims held by the Lucky Strike Uranium Corporation, but weakly mineralized uraniferous sandstone is reported in a few holes drilled by the applicant. Four holes drilled on the Betty Nos. 3 and 5 claims and three holes drilled along west side line of the Poor Boy No. 1 claim were located to cut possible extensions of known mineralization on the Little Indian and Liberty claims, respectively. Radioactivity slightly above background was reported on probing the holes on the Poor Boy claims, and several chemical analyses of cuttings were reported to range from 0.03 to 0.05 percent U_3O_8, according to Walter Snyder.

Ore-bearing or mineralized ground is exposed in three sandstone beds at different stratigraphic positions on adjacent properties. The Sitton mine and the prospect pit on the Little Indian claim are in sandstone beds of the Salt Wash, and the Blue Clay mine or open cut was excavated on a sandstone bed in the lower part of the Brushy Basin.

The Sitton mine on the Liberty Claim, adjoining the subject appli-

cant's claims (fig. 2), consists of two drifts: one about 75 feet in length and the other about 225 feet with a stope about 20 by 30 feet near the heading. The workings are in the second or third sandstone bed from the top of the Salt Wash. The ore-bearing layer now exposed in the walls is a blue-black corvusite-type mineral, according to Dodson and Weir, and has a maximum thickness of about three inches presently exposed. No ore is exposed in the headings of the drifts, and there is no evidence to suggest that the ore body exposed in the Sitton mine extends onto the adjoining claims held by the Lucky Strike Uranium Corporation. In fact, a narrow halo of bleached gray sandstone is limited to the ore exposures and grades into reddish gray sandstone within a few tens of feet laterally around the exposed edge of the ore body. This relation is believed also to indicate that the ore body exposed in the Sitton mine is not extensive. The Carpenter Drilling Company of Madiera, California, is currently drilling east of the mine workings in the general direction of the applicant's Poor Boy Nos. 1 and 2 claims, but no extension of the ore has been found to date.

A discovery pit near the eastern end of the Little Indian claim, which is surrounded by the Betty group of the subject applicant's claims (fig. 2), has exposed a small uranium-vanadium ore body of a few tons and of unknown grade. This small ore body is confined to a roll in cross-bedded sandstone at the top of the uppermost sandstone ledge of the Salt Wash. The roll extends southerly but is unmineralized outside the immediate vicinity of the prospect pit. An area about 10 feet square, including the prospect pit, shows anomalous radioactivity up

to 40 times above background. Little ore remains in place; the radioactivity is mainly derived from loose blocks of ore that litter the bottom and sides of the pit. An ore-bearing portion of the roll about 5 feet long and 2 feet in diameter has been pushed 15 feet north of the pit by bulldozer. At least one hole has been drilled near the surface pit by the Federal Uranium Company, but the results are unknown.

The Blue Clay Mine or open cut lies a few hundred feet east of the subject applicant's main group of claims (fig. 2) and is entirely within the Brushy Basin. The back of the cut reaches a maximum of 15 feet in height and is about 150 feet in length. Bluish gray mudstones are well exposed in the upper part of the cut. The upper 5 feet of a sandstone bed or ledge is exposed at one place in the lower part of the back of the cut. Limonite stains follow joint surfaces, but no other evidence of mineralization was seen. Readings taken with scintillometer over the exposed area of the cut varied from normal to twice background count. It is presumed that whatever ore may originally have been present was mined out prior to the DMEA examination. The Federal Uranium Company is reported to have outlined a shallow ore body by drilling just east of the open cut.

ORE RESERVES

No ore reserves in the measured or indicated category are present on the Lucky Strike Uranium property. The lack of favorable geologic controls and the smallness of the two known ore bodies on properties adjoining the Lucky Strike Uranium Corporation's holdings suggests

that any inferred ore bodies are likely to be 250 tons or less in size and would contain about 0.3 percent U_3O_8 and about 2.5 percent V_2O_5.

PROPOSED EXPLORATION

The applicant proposed to explore the property by drilling on a 500-foot grid, requiring an estimated 9,100 feet of drilling in 66 holes, to be followed by 4,500 feet of closer-spaced drilling on any favorable mineralization encountered. A total of 6,600 feet of wagon drilling at sites where the Salt Wash member is at surface, and 7,000 feet of dry rotary drilling at sites on Brushy Basin sediments, is proposed at an estimated cost of $38,313.00 in which Government participation at 75 percent would be $28,734.75. A definite drilling pattern is not presented. The cost estimate is high. Costs other than actual drilling, bulldozing and sample analysis, average .97 per foot of drilling. Unit cost prices for dry rotary drilling and bulldozing are also high.

CONCLUSIONS AND RECOMMENDATIONS

There are no known deposits or significant evidence of mineralization on the subject property. The results of limited drilling on the claims as well as drilling and mining operations on adjacent ground do not indicate an extension of known ore bodies into the property.

In addition, the known habit of ore occurrence, as evidenced by development done to date, indicates that ore bodies found in this area are likely to be small and scattered. Although a fair grade of ore can be expected in the Salt Wash member, the total uranium content in

relation to the area which must be explored is probably small. Even if there were better evidence of the presence of ore bodies of this nature on the applicant's claims, it does not appear likely that the probable production would justify the proposed exploration.

It is recommended that the application under DMEA 3844 be denied.

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

RECEIVED
JUL - 5 1955

224 New Customhouse
Denver 2, Colorado

June 28, 1955

Memorandum

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

From: Field Team, Region III

Subject: Docket DMEA-3844 (Uranium), Lucky Strike Uranium Corporation, South Lisbon Valley claims, San Juan County, Utah

Enclosed is the subject application in the amount of $38,313.00.

This application has several shortcomings as noted in the attached letter from the Chairman of the Operating Committee and the memoranda of John Crawford and R. D. Trace.

A field examination and suitable report are required.

W. M. TRAVER

W. M. Traver

E. N. Harshman

E. N. Harshman

DMEA Field Team, Region III

Enclosures

HMC:pw

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

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

RECEIVED
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224 New Customhouse
Denver 2, Colorado

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A field examination and suitable report are required.

W. M. TRAVER

Enclosures

W. M. Traver

E. N. Harshman

E. N. Harshman

DMEA Field Team, Region III

HMC:pw

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

700

Surname copy

Ching
Ellis
Kilsgaard
Hedges
Selbridge
H R Johnson

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

JUN 23 1955

Lucky Strike Uranium Corporation
c/o Mr. Nathan Wechsler
1010 Vermont Avenue, N. W.
Washington, D.C.

Re: Docket No. DMEA-3844 (Uranium)
South Lisbon Valley Claims
San Juan County, Utah

Gentlemen:

The application for assistance in exploring the subject 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 to the Executive Officer of Region III at the following address:

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/gla
6-22-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Ching
DMEA Field Team, Region III (2)

R.C.S.

700

Surname copy

Ching
Ellis
Selfridge
Johnson

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

JUN 23 1955

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Washington 25, D. C.

Re: Docket No. DMEA-3844 (Uranium)
Lucky Strike Uranium Corp.
South Lisbon Valley Claims
San Juan County, Utah

Dear Mr. Traver:

The subject application is being referred to you for investigation, a field examination if warranted, and recommendation. A copy of the application was forwarded to you on June 1.

Enclosed are two copies each of comments and recommendations by John E. Crawford and R. D. Trace of the Uranium Commodity Committee, dated June 10 and June 16, 1955, respectively.

The Applicant has not shown the locations of the proposed Stage I holes on a map, nor has he submitted evidence that mineralization exists on the subject claims, even though extensive outcroppings of the principal ore horizon are present, and some drilling has been done.

Despite these shortcomings, we are referring the application to you because the Field Team recently examined the adjoining property of Uranium Chief, Inc. (Docket No. DMEA-3663) and recommended denial of that application, and sufficient first-hand information may be available for a recommendation in this case, without further examination.

We are not listing our requirements in connection with the property rights for the time being, as they may be obtained, if required, through the Applicant's Washington representative.

MChing/gla 6-22-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Ching

Enclosures

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (24B)

APPROVED:

J. H. Hedges (24B)
Member, Bureau of Mines

Thor H. Kiilsgaard (24B)
Member, Geological Survey

R.C.H.

6/17/55-gla

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 16, 1955

Re: DMEA-3844
Lucky Strike Uran. Corp.
Betty et al. claims
South Lisbon Valley
San Juan Co., Utah
$38,313 - 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 to wagon and rotary drill about 13,600 feet in three stages, to explore the Salt Wash. The holes will collar in either the Salt Wash or Brushy Basin and will average between 100 and 200 feet in depth.

The general area proposed for exploration does not have a good record. The few known small mines nearby have produced very limited quantities of ore. In May 1955, an application for exploration of an adjoining group of claims was denied (DMEA-3663). The subject application appears to cover an area little or no different from 3663. The subject application, however, does mention some mineralization found by drilling on the nearby Little Indian and Blue Clay areas. I doubt that these data would help the cause of the subject application, as the mineralization found seems to be small pods in the Brushy Basin. However, if you want a clear cut denial, I suppose you should get at least a Field Team comment. A field exam may not be necessary.

RDTrace

R. D. Trace

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 1., 1955

Re: DMEA-3044
Jacky Strike Uran. Corp.
Betty et al. claims
South Lisbon Valley
San Juan Co., Utah
$38,313 - 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 to wagon and rotary drill about 13,000 feet in three stages, to explore the Salt Wash. The holes will collar in either the Salt Wash or Brushy Basin and will average between 100 and 200 feet in depth.

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R. D. Trace

RDTrace:hlm
G-6/16/55

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

6/13/55 gl

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

June 10, 1955

RECEIVED
JUN 13 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 3844, Lucky Strike Uranium Corp., San Juan County, Utah

I have reviewed the attached application for assistance, Lucky Strike Uranium Corp., DMEA Docket 3844, San Juan County, Utah; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We recommend that the Lucky Strike Uranium Corp. be requested to submit additional information about the 3 holes previously drilled on the Poor Boy No. 1 claim, as well as a map showing the proposed exploration drilling program. As presented, the exploration program appears to be essentially prospecting, and the additional information is needed before the application can be fully evaluated.

John E. Crawford
John E. Crawford

Attachment

June 1, 1955

Subject: DMEA-3844
Re: Exploration Assistance

Lucky Strike Uranium Corp.
% Mr. Nathan Wechsler
1010 Vermont Ave.,
Washington, D.C.

Fentlemen:

The receipt of your application dated May 31, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number 3844 and referred to the Rare & Miscellaneous Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 1 1955

Not to be filled in by applicant

Docket No. 3844
Metal or Mineral Uranium & Van.
Date Received 6-1-55
Estimated Cost 38,313,000
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:

Lucky Strike Uranium Corporation
38 South Main Street
Salt Lake City, Utah

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

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

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

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

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

See Report - Appendix

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

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

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

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

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

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

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

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See Report - Page 6

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Report - Page 6

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

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

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

(*c*) The work will start within 20 days and be completed within 3 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See Report - Page 14

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project: See Report - Page 11

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). See Report - Page 12

(*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. See Report - Page 13

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

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

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

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes. See Report - Page 13

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

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

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

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

[X] Money [ ] 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 5/31, 1958

Lucky Strike Uranium Corporation
(Applicant)

By Nathan Wechsler

Nathan Wechsler

Power of Attorney

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

POWER OF ATTORNEY

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

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

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

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

IN WITNESS WHEREOF, the said LUCKY STRIKE URANIUM CORPORATION, has executed this power of attorney by causing its name to be hereunto signed by Briant G. Badger, its President, with its corporate seal affixed and attested by R. Dean Jones, its Secretary, this 26th day of March, 1955, A.D.

LUCKY STRIKE URANIUM CORPORATION

By: Briant G. Badger
President

ATTEST:

R. Dean Jones
Secretary

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

On the 26th day of March A.D. 1955 personally appeared before me Briant G. Badger and R. Dean Jones who, being by me duly sworn, did say that they are the President and Secretary, respectively, of the above corporation, whose names are signed to the foregoing power of attorney, and who have acknowledged the same before me in the city and county aforesaid.

Witness my hand and notarial seal this 26th day of March 1955.

My Commission Expires:
2-13-59

Robert W Fellmeth
Notary Public

REPORT ACCOMPANYING APPLICATION TO DMEA

BY

LUCKY STRIKE URANIUM CORPORATION

Prepared by:
John Q. St. Clair
Mining Geologist
Grand Junction, Colorado
May 1955

CONTENTS

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I. Name of Applicant	1
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VI. Operating Experience and Background of Applicant	14

ILLUSTRATIONS

Plate

1. Geologic and Claim Map (Front Cover)

2. Photogeologic Map - Mt. Peale 16 showing area. (In Pocket)

APPENDIX

Mining Agreement Following Page 17

Lucky Strike Uranium Corp.
38 South Main Street
Salt Lake City, Utah

REPORT ACCOMPANYING APPLICATION TO DMEA

I. NAME OF APPLICANT

(a) The applicant is the Lucky Strike Uranium Corporation, 38 South Main Street, Salt Lake City, Utah.

(b) The Lucky Strike Uranium Corporation is organized in and doing business under the laws of the State of Utah.

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

(1) President and Director:

Briant G. Badger
2487 Skyline Drive
Salt Lake City, Utah

(2) Vice-President and Director:

Robert Sorbonne
1009 South 14th East Street
Salt Lake City, Utah

(3) Secretary and Director:

R. Dean Jones
560 East 3750 South Street
Salt Lake City, Utah

(4) Treasurer and Director:

John E. Lach
1437 South Wasatch Drive
Salt Lake City, Utah

(5) Director:

Neuman C. Petty
1449 Laird Avenue
Salt Lake City, Utah

(6) Director:

Charles Snyder
Dove Creek,
Colorado

II. PROPERTY RIGHTS

The properties of the corporation which are relative to this application include 49 surveyed claims in Sections 15, 16, 21, 22, 27, 28, 33 and 34. Township 31 South, Range 26 East of the Salt Lake Meridian, San Juan County, Utah.

The names of the claims and the recording data are as follows:

Name of Claim	Book	Page
Betty 1	19	284
Betty 2	19	285
Betty 3	19	285
Betty 4	19	286
Betty 5	19	286
Betty 6	19	287
Betty 7	19	287
Betty 8	19	288
Betty 9	19	289
Betty 10	19	289

Lucky Strike Uranium Corp.
38 South Main Street
Salt Lake City, Utah

Name of Claim	Book	Page
Big Chief 1	23	8
Big Chief 2	23	8
Big Chief 3	23	9
Big Chief 4	23	9
Big Chief 5	23	10
Big Chief 6	23	10
Bottom 4	25	273
Bottom 5	25	273
Bottom 6	25	274
Bottom 7	25	274
Bottom 8	25	275
Bottom 9	25	275
Bottom 10	25	276
Johnny 10	25	351
Log 6	19	296
Log 7	19	297
Log 8	19	297
Log 9	19	298
Log 10	19	298
Poor Boy 1	23	3
Poor Boy 2	23	3
Poor Boy 3	23	4
Poor Boy 4	23	4
Poor Boy 5	23	5
Poor Boy 6	23	5
Poor Boy 7	23	6
Poor Boy 8	23	6
Poor Boy 9	23	7
Poor Boy 10	23	7
Squaw 1	23	95
Squaw 2	23	309
Squaw 3	23	96
Squaw 4	23	96
Squaw 5	23	97
Squaw 6	23	313
Squaw 7	23	98
Squaw 8	23	99
Squaw 9	23	99
Squaw 10	23	100

The locations of the claims are shown in Plate 1 of this application.

The applicant owns the above claims, which are free from any encumbrances except for a 5 per cent royalty on production, by virtue of an outright purchase. No further payments are required to maintain title, except the performance of the minimum annual assessment work required by mining law.

Refer to copy of agreement in the appendix for additional details.

The properties are known as the South Lisbon Valley Claims.

III. PHYSICAL DESCRIPTION

A. History

At the time of submitting this application, no exploration or development work is being carried out on the above described properties.

It is understood that three wagon drill holes were sunk to depths of 70 to 80 feet and low mineralization was recorded. These holes were bottomed in a blue clay horizon in the Salt Wash, and were located for the purpose of intercepting a possible eastwest ore trend established in the Sitton Mine, situated about 460 feet

from the west property line of Poor Boy No. 1 claim. The Sitton property has reportedly produced over $50,000 of uranium-vandium ore from a definite channel occurrence, with settlement sheets showing ore values of 0.30 per cent to 0.35 per cent U_3O_8. The Sitton property was originally mined for vanadium.

The Blue Clay Mine, located northeast of Log No. 6 claim at a distance of approximately 800 feet, occurs in a lenticular sandstone bed in the lower part of the Brushy Basin member about 30 feet above the base.

It is reported that 30 drill holes by the Federal Uranium showed mineralization west of the Blue Clay Area.

The Little Indian Claim (Federal Uranium), which is completely surrounded by Betty Claim Group, is a prospect from which some uranium-vanadium ore has been mined in the past. Some ore samples are reported to run as high as 0.40 per cent U_3O_8. Previous mining and bulldozing indicates that the trend of this ore channel is northeast with an outcrop length of 54 feet and a width of 12 feet.

Three holes were drilled by the Federal Uranium on this claim.

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B. Accessibility

The claims in the South Lisbon Valley Group may be reached from Monticello, a distance of approximately 29 miles, by U. S. Highway 160 for 13.5 miles eastward, thence by a country dirt road for 16 miles northward to the claim area.

C. Topography

The claim area is typified by topography formed by canyons and flat table lands, the latter being covered in places with scrub junipers and sage brush.

The central part of the claim area is occupied by Indian Canyon which forms a dry tributary to McIntyre Canyon.

D. Geologic Setting

The stratigraphic section (older to younger) in the claim area and vicinity is composed of the Morrison formation of Jurassic age, which is divided into the Salt Wash (the lower, and principal ore-bearing horizon) and the Brushy Basin members.

Overlying the Jurassic formation, occurs the Burro Canyon formation with undifferentiated Dakota sandstone of Cretaceous age (Refer to Plate 1).

The formations are generally flat lying, although in the central and northern sections of the claim areas, normal faults of small displacements have disturbed usual stratigraphic relationships.

E. Mineralization

A field examination carried out on the applicant's property and adjoining areas indicates that the principal ore-horizon occurs in the second sandstone rim below the top of the Salt Wash member. This rim appears as fairly continuous outcrop in the area. From the Sitton Mine (Refer to Plate), towards the northeast, this second rim crosses the Poor Boy and Big Chief Claims, all located on the southeast wall of Indian Canyon, and this same rim appears to be present on the Johnny No. 10 claim across the canyon to the northwest.

The thickness of this rim varies from 50 to 70 feet along the outcrop, and is positioned approximately 75 to 100 feet below the top of the Salt Wash member.

As mentioned under History, the Sitton Mine was a former producer of vanadium ore and subsequently recovered uranium-vanadium ore reportedly valued at $50,000 with grades of 0.30 per cent to 0.35 per cent U_3O_8. This property is located 460 feet

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from the Poor Boy No. 1 claim.

The Little Indian claim, situtated in the center of the Betty Group, has produced uranium-vanadium ore in the past, the highest reported grade being 0.40 per cent U_3O_8. A prospect on this claim, which showed U_3O_8 staining, appears to be located above the producing horizon, near the base of the Brushy Basin.

Three holes drilled on the Poor Boy No. 1 claim carried low mineralization.

From a regional viewpoint, it may be mentioned that the channel trends on the claims of the Dulaney Mining Company, a few miles east of the Lucky Strike Group, are considered to be North 45 degrees west, or generally parallel to the Dolores anticline. It may be interesting to note in this connection that an extension of this broad trend would cross the properties under consideration.

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IV. THE EXPLORATION PROJECT

A. Objective

The objective of the exploration program is the discovery of uranium-vanadium ore.

B. Proposed Work

Stage 1

Of the 49 claims involved in this exploration project, the equivalent of 12 claim areas are unsuitable for drilling because of (a) their location below the ore horizon or (b) the excessive hole depth required to reach the ore horizon. For these reasons, the 12 claim areas have been eliminated from the drilling program, leaving a balance of approximately 37 claim areas.

Holes collared in the Salt Wash horizon will average 100 feet in depth, and it is estimated that 41 holes would be required to prospect the acreage involved on a 500-foot grid basis, or 4100 feet. This work would be done by wagon drilling provided the ground is not too wet.

Holes collared in the Brushy Basin formation would average 200-foot in depth and it is estimated that 25 holes would be necessary to establish a 500-foot grid spacing. The footage for the drilling

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would approximate 5000 feet, and open-hole rotary work is recommended for holes of this depth.

For the estimated 9100 feet of drilling in Stage 1, it is understood that a 500-foot grid spacing will be for the primary purpose of obtaining a better understanding of the subsurface geologic conditions, especially those related to thickness, characteristics, and mineralization of the Salt Wash Ore horizon. It is further understood that with small ore bodies of the Salt Wash type, drill hole spacing should not exceed 50 feet, and probably as closely spaced as 25 feet, to disclose hidden ore deposits in the area.

Stage 2

This stage would be represented by drilling to follow-up any favorable holes or areas determined by Stage 1 drilling. On a basis of 50 per cent additional drilling footage completed in Stage 1, about 4500-foot would be required.

Summary of Stage 1 and 2

Stage	Wagon Drilling	Rotary
1	4100 ft.	5000 ft.
2	2500	2000
	6600 ft.	7000 ft.

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A total of 13600 feet of drilling would prospect the claim area as calculated. Drilling to block out ore reserves would not form part of the DMEA program.

Bulldozing in Stages 1 and 2 would be required to clear drilling sites, and with the exception of the higher ground underlain by the Brushy Basin formation, where drill roads would be necessary, the bulldozing work would be comparatively easy.

Radiometric logging would be carried out in all holes as the work progressed.

In summary, it may be mentioned that no rigid rules may be laid down at this time regarding the precise locations of the holes, as this factor will be dependent upon the results obtained. It is estimated, however, that the 13600 feet of drilling would adequately explore the property.

V. ESTIMATE OF COSTS

Costs for the project have been estimated on the basis of 13600 feet of drilling where an average of 200 feet of drilling is completed per day. The work under this program, therefore, should be completed within 3 months, with one drill (either wagon or rotary), and this period of time will be used in the calculations.

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Stages 1 and 2

(1) Independent Contracts

(a)	6600 feet of wagon drilling @ $1.00 per foot (including delays, stand-by time, etc.)	$ 6600
(b)	7000 feet of rotary drilling @ $2.00 per foot (including delays, stand-by time, etc.)	14000
(c)	Clearing drill sites, bull-dozing (20 days @ $125 per day)	2500
(d)	Assaying (400 samples @ $5 each)	2000
(e)	Surveying(5 days @ $125 per day)	625
	Subtotal	$25725

(2) Labor, Supervision and Consultants

(a)	Common labor (1 man @ $400 per month x3)	$1200
(b)	Geologist ($600 per month x3)	1800
(c)	Consultant (Geology)	1000
		$4000

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(3) Operating Equipment & Supplies

(a) Truck (3 months @ $500 per month, including gas, oil, repairs, etc.)	$1500
(b) Butler Building (3 months rental @ $50 per month)	150
(c) Sample Bags (400 @ .20 ea.)	80
Subtotal	$1730

(4) Miscellaneous $2000

Summary of Estimated Costs

(1) Independent Contracts	$25100
(2) Labor, Supervision and Consultants	4000
(3) Operating Equipment & Supplies	1730
(4) Miscellaneous	2000
	$34830
(5) Add 10% Contenguencies	3483
Total Estimated Cost	$38313

VI. OPERATING EXPERIENCE AND BACKGROUND OF APPLICANT

The backgrounds of the Officers and Directors of the Company are as follows:

Briant G. Badger, is president and director. He is a partner of Bradley-Badger Company, Salt Lake City, Utah, and is general manager of the Diamond Jim Mining Company, a producing lead and silver property in the Island Mountain Mining District, Elko County, Nevada. He holds 170,000 shares of stock of the issuer, for which he paid par.

Robert Sorbonne, is vice-president and director. He is a practicing dentist and vice-president of the Salt Lake chapter of the Utah Dental Association. He holds 100,000 shares of the stock of the issuer, for which he paid par.

R. Dean Jones, is secretary and director. He is presently employed in sales and advertising work. He holds 75,000 shares of the stock of the issuer, for which he paid par.

John E. Lach, is treasurer and director. He is a licensed contractor and landscape architect. He has been engaged in construction of residential and commercial buildings for the past sixteen years. He holds 100,000 shares of the stock of the issuer, for which he paid par.

Neuman C. Petty, is a director. He is president and general manager of Petty Motor Company, Salt Lake City, Utah, president of Sugarhouse Finance Company, Salt Lake City, Utah, and is president of the Utah Automobile Dealers Association. He holds 50,000 shares of the stock of the issuer, for which he paid par.

Charles Snyder, is a director. He is a farmer rancher, and has lived most of his life in the Colorado Plateau area. He holds 150,000 shares of the stock of the issurer, for which he paid par.

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

Education:	University of Minnesota University of Oklahoma B. S. Geology, 1934 (Phi Beta Kappa)
1924 - 1934	Experience as diamond drill runner and diamond setter and superintendent of drilling operations.
1934 - 1935	Superintendent of Diamond Drilling, East African Goldfields, Ltd., Lupa Goldfield, Tanganyika, East Africa.
1936 - 1939	Consultant on Exploration and Diamond Drilling for New Consolidated Gold Fields, Ltd., Nigel Gold Mining Company, Ltd., South Roodepoort Main Reef Areas, Ltd., and other companies on the Rand, South Africa.

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1939 - 1945	(Except for one and one-half years in the armed forces) Director of Research, New Consolidated Gold Fields - Boart Products Diamond Research Laboratory, Johannesburg; also Superintendent of Diamond Drilling Operations, New Consolidated Gold Fields, Ltd.
1945 - 1948	Manager, Boart Products, South Africa, Ltd., and Director, South African Diamond Crowns, Ltd., Johannesburg.
1948 - 1951	Licenced Diamond Dealer, Johannesburg; also Director, St. Clair Exploration Company (Pty) Ltd.
1951 - 1954	Consulting Mining Geologist.

APPENDIX

COPY

AGREEMENT

Mineral Administration
NOV 2 1955

THIS AGREEMENT, entered into on this 25th day of August, 1954 between Walter B. Snyder of Dove Creek, Colorado and R. J. Fellmeth of Moab, Utah hereinafter referred to as the Seller, and Lucky Strike Uranium Corporation, a corporation duly organized and incorporated pursuant to the laws of the sovereign State of Utah, hereinafter referred to as the buyers, WITNESSETH:

THAT WHEREAS, The Sellers desire to sell, transfer, and convey all of their right, title and interest in certain unpatented lode mining claims to the buyer;

AND WHEREAS, the buyer is represented to the sellers as being a corporation duly authorized under the laws of Utah to buy, sell, operate and traffic in mining ventures and that said buyer desires to purchase all of the sellers right, title and interest in certain unpatented lode mining claims,

NOW THEREFORE, the following conditions are entered into of our own free volition and will:

1. The sellers agree to sell, transfer, and convey to the buyer by quit claim deed who hereby agrees to purchase and receive the 89 unpatented lode mining claims and/or tract of 600 feet by 1500 feet covered by leases executed by the Atomic Energy Commission

pursuant to Domestic Uranium Program Circular 7, which are designated and listed on Exhibit A to this agreement. Said Exhibit A is hereby incorporated in the agreement by reference and is made a part hereof.

2. The buyer agrees to pay and the seller agrees to receive $870.00 for each claim or tract of land on which a satisfactory title is delivered.

3. The amount of $870.00 per claim will constitute the total consideration for the transfer and conveyance of the claims or tract of land covered by the agreement.

4. The buyer agrees to pay and the seller agrees to receive an installment of $24,030.00 upon the signing of this agreement, the receipt of which is hereby acknowledged, and that the balance of $53,400.00 of the total consideration of $77,430.00 which will be determined under this agreement is to be due and payable to the seller on or before December 1, 1954. Buyer shall do no drilling on said claims until full payment is received.

5. Sellers reserve from said sale five (5) per cent gross royalty out of production from any ores mined, marketed, and produced by Buyer from the following designated claims, with the right to elect to receive payment from the point of marketing:

	No. of Claims
Poor Boy Nos. 1 to 10, inclusive	10
Squaw Nos. 1 to 10, inclusive	10
Log Nos. 6 to 10, inclusive	5
Betty Nos. 1 to 10, inclusive	10
Johnny No. 10	1
Bottom Nos. 1 to 10, inclusive	10
Big Chief Nos. 1 to 6, inclusive	6
Total	52

Other claims carry no royalty.

6. The buyer may sell, assign or transfer his right under the agreement, but the interest of the seller is established by this agreement, ore not to be changed, altered, or damaged in any respect by any action of said buyer and the buyer is to remain properly liable under this agreement.

7. The seller is to furnish the buyer with a quit claim deed to each claim or tract of land under this agreement and if such quit claim deed conveying marketable title cannot be furnished by the seller to any particular claim or tract of land, the buyer is released from any obligation under this agreement in reference to that particular claim or tract of land. Such release will not affect the respective right and liability of the parties in respect to the remaining claims or tract of land.

8. The terms and provisions of this agreement shall survive the execution of any deed and shall be binding upon

the heirs, legal representatives and assigns of the parties hereto. This agreement may not be changed orally.

IN WITNESS WHEREOF, this agreement has been duly executed by the parties hereto.

LUCKY STRIKE URANIUM CORPORATION,

PURCHASER

By: /S/ Briant T. Badger
PRESIDENT

By: /S/ R. Dean Jones
SECRETARY

SELLERS:

/S/ Walter B. Snyder
Walter B. Snyder

/S/ R. J. Fellmeth
R. J. Fellmeth

State of Utah)
County of Salt Lake) ss:

On this 25th day of August, 1954, personally appeared before me the signers of the above instrument, who duly acknowledged to me that they executed the same.

In witness whereof. I have hereto attached my hand and seal this 25th day of August, 1954.

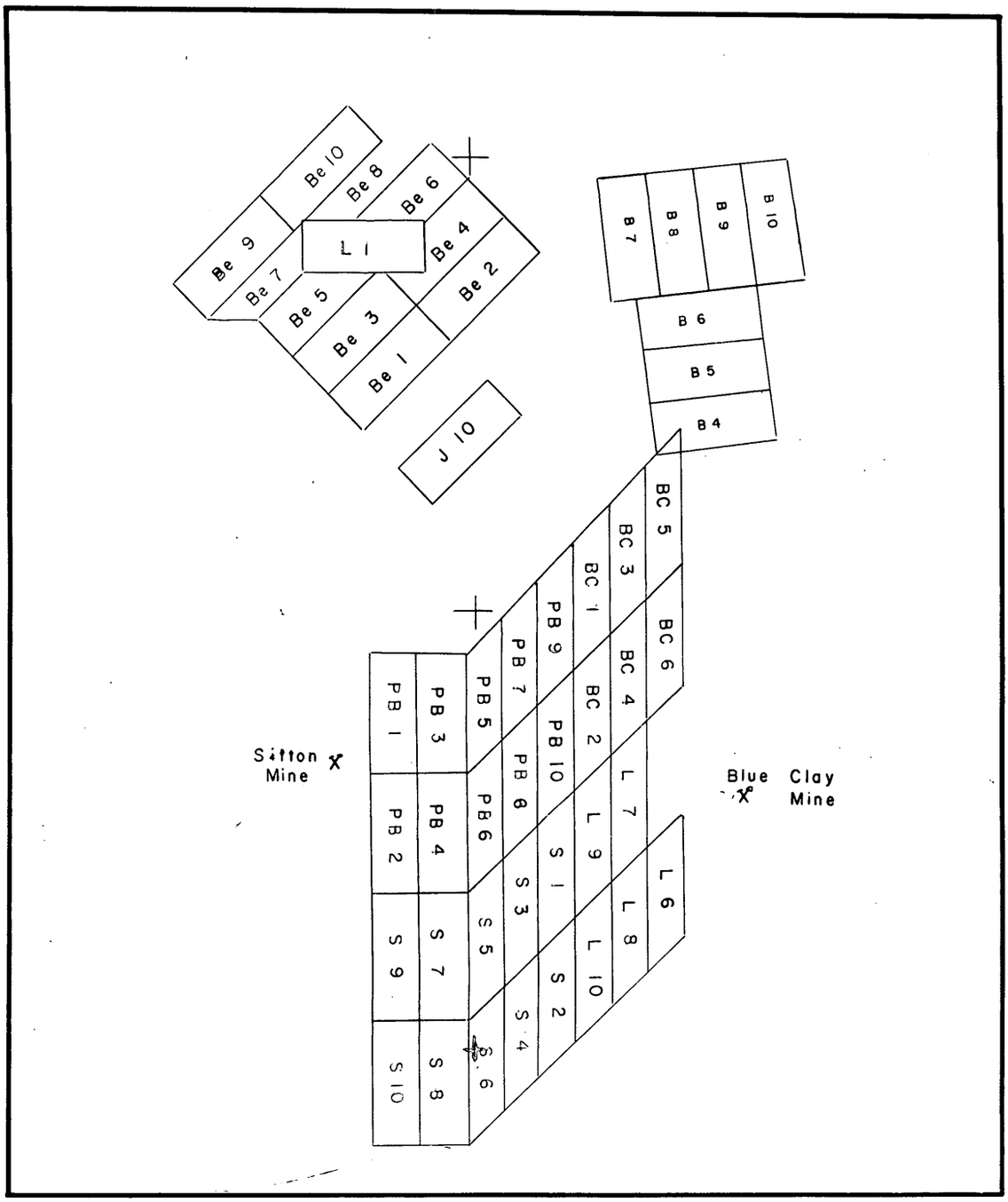
/S/ T. A. Bennion
Notary Public

EXHIBIT A

NAME OF CLAIM	DATE OF RECORDING	BOOK	PAGE
Johnny #10	May 15, 1953	25	351
Poor Boy #1	March 21, 1953	23	3
Poor Boy #2	March 21, 1953	23	3
Poor Boy #3	March 21, 1953	23	4
Poor Boy #4	March 21, 1953	23	4
Poor Boy #5	March 21, 1953	23	5
Poor Boy #6	March 21, 1953	23	5
Poor Boy #7	March 21, 1953	23	6
Poor Boy #8	March 21, 1953	23	6
Poor Boy #9	March 21, 1953	23	7
Poor Boy #10	March 21, 1953	23	7
Betty #1	March 21, 1953	19	284
Betty #2	March 21, 1953	19	285
Betty #3	March 21, 1953	19	285
Betty #4	March 21, 1953	19	286
Betty #5	March 21, 1953	19	286
Betty #6	March 21, 1953	19	287
Betty #7	March 21, 1953	19	287
Betty #8	March 21, 1953	19	288
Betty #9	March 21, 1953	19	288
Betty #10	March 21, 1953	19	289
Squaw #1	March 31, 1953	23	95
Squaw #2	March 31, 1953	23	309
Squaw #3	March 31, 1953	23	96
Squaw #4	March 31, 1953	23	96
Squaw #5	March 31, 1953	23	97
Squaw #6	March 31, 1953	23	313
Squaw #7	March 31, 1953	23	98
Squaw #8	March 31, 1953	23	99
Squaw #9	March 31, 1953	23	99
Squaw #10	March 31, 1953	23	100
Big Chief #1	March 21, 1953	23	8
Big Chief #2	March 21, 1953	23	8
Big Chief #3	March 21, 1953	23	9
Big Chief #4	March 21, 1953	23	9
Big Chief #5	March 21, 1953	23	10
Big Chief #6	March 21, 1953	23	10

Log #6	March 21, 1953	19	296
Log #7	March 21, 1953	19	297
Log #8	March 21, 1953	19	297
Log #9	March 21, 1953	19	298
Log 10	March 21, 1953	19	298
Lucky Strike #1	March 19, 1953	71	107
Lucky Strike #2	March 19, 1953	71	108
Lucky Strike #3	March 19, 1953	71	108
Lucky Strike #4	March 19, 1953	71	109
Lucky Strike #5	March 19, 1953	71	109
Lucky Strike #6	March 19, 1953	71	110
Lucky Strike #7	March 19, 1953	71	110
Bottom #4	March 16, 1953	25	273
Bottom #5	March 16, 1953	25	273
Bottom #6	March 16, 1953	25	274
Bottom #7	March 16, 1953	25	274
Bottom #8	March 16, 1953	25	275
Bottom #9	March 16, 1953	25	275
Bottom #10	March 16, 1953	25	276
Rock Wall #1	December 16, 1953	45	111
Rock Wall #2	December 16, 1953	45	111
Rock Wall #3	December 16, 1953	45	112
Rock Wall #4	December 16, 1953	45	112
Rock Wall #5	December 16, 1953	45	113
Rock Wall #6	December 16, 1953	45	113
Rock Wall #7	December 16, 1953	45	114
Rock Wall #8	December 16, 1953	45	114
Top Side #1	December 18, 1953	45	152
Top Side #2	December 18, 1953	45	152
Top Side #3	December 18, 1953	45	153
Top Side #4	December 18, 1953	45	153
Uranium Chief #16	June 15, 1954	109	366
Uranium Chief #17	June 15, 1954	109	367
Uranium Chief #18	June 15, 1954	109	367
Uranium Chief #19	June 15, 1954	109	368
Uranium Chief #20	June 15, 1954	109	368
Uranium Chief #21	June 15, 1954	109	369
Uranium Chief #22	June 15, 1954	109	369
Uranium Chief #23	June 15, 1954	109	370

Uranium Chief #24	June 15, 1954	109	370
Uranium Chief #25	June 15, 1954	109	371
Uranium Chief #26	June 15, 1954	109	371
Uranium Chief #27	June 15, 1954	109	372
Uranium Chief #28	June 15, 1954	109	372
Uranium Chief #29	June 15, 1954	109	373
Uranium Chief #30	June 15, 1954	109	373
Uranium Chief #31	June 15, 1954	109	374
Uranium Chief #32	June 15, 1954	109	374
Uranium Chief #33	June 15, 1954	109	375



EXPLANATION

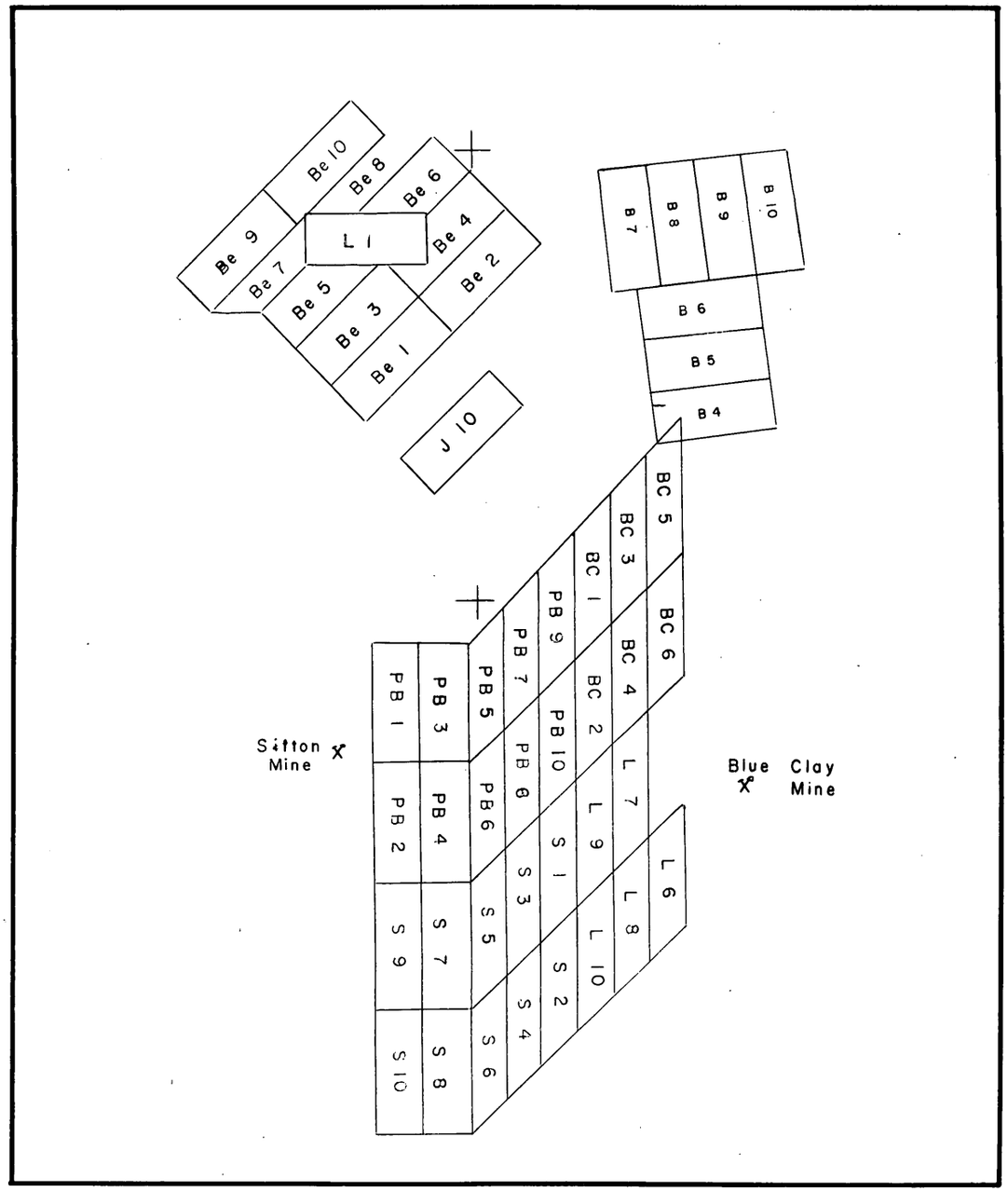
Be- Betty
B - Bottom
BC-Big Chief
J - Johnny
LI-Little Indian
L - Log
PB-Poor Boy
S - Squaw

0 1 2
MILES

Kbd Burro Canyon formation and Dakota sandstone undifferentiated

Jmbb Brushy Basin member
Jmsw Salt Wash member, Dashed line indicates base of carnotite bearing sandstone
} Morrison formation

GEOLOGIC AND CLAIM MAP FOR SOUTH LISBON VALLEY CLAIM GROUP



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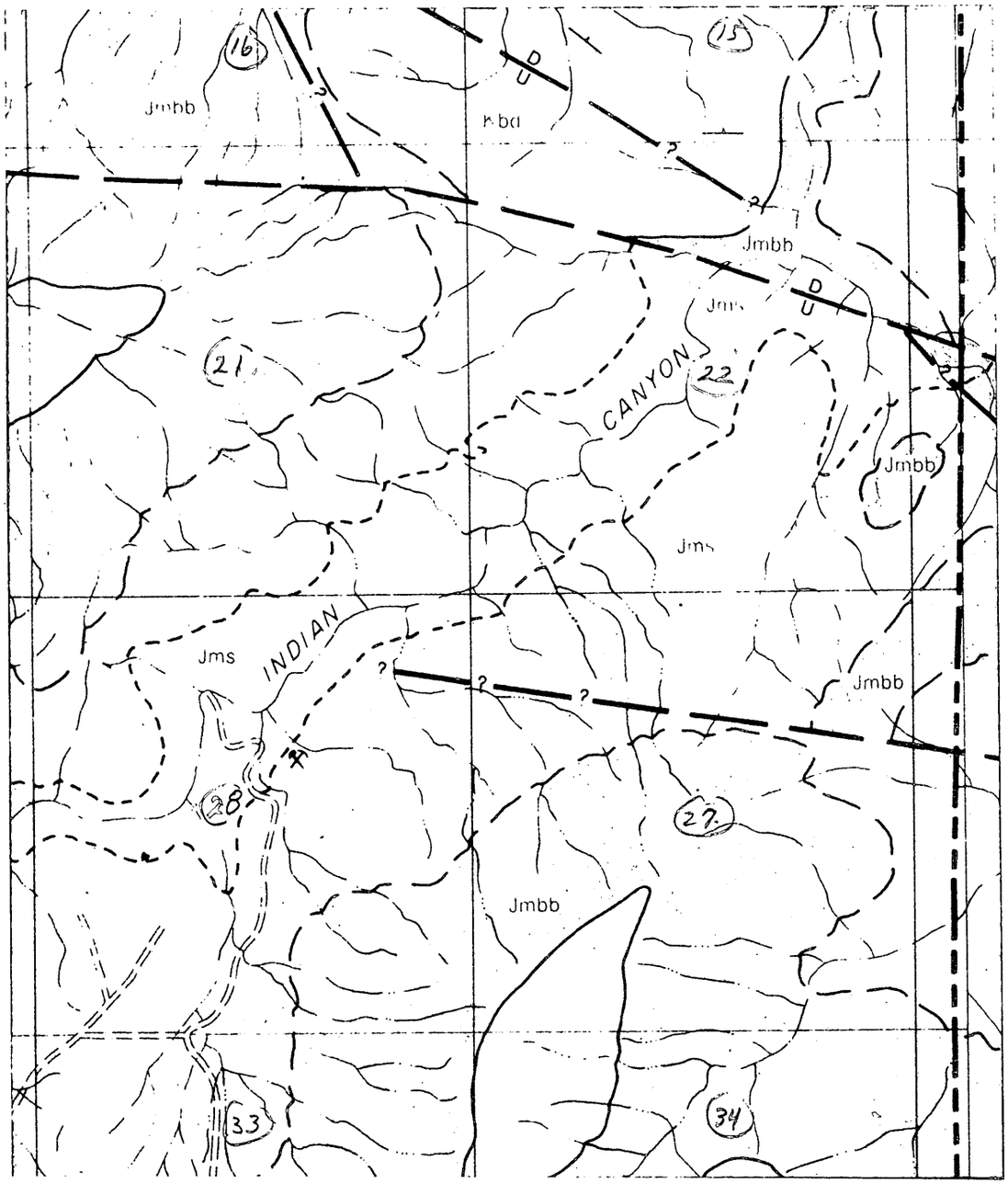
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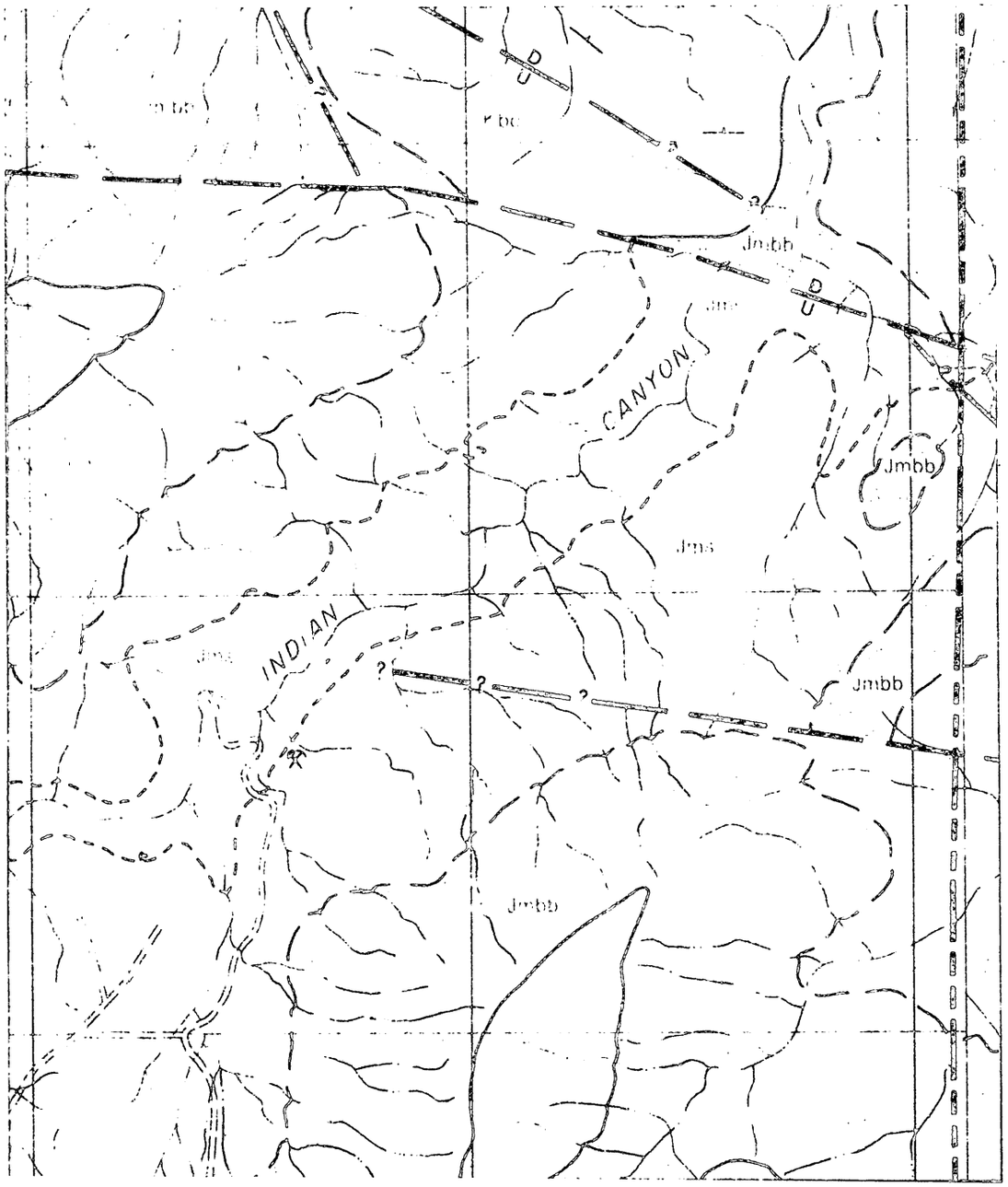
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Jms
INDIAN
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REPORT ACCOMPANYING APPLICATION TO DMEA

BY

LUCKY STRIKE URANIUM CORPORATION

Prepared by:
John Q. St. Clair
Mining Geologist
Grand Junction, Colorado
May 1955

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Defense Minerals Administration
RECEIVED
JUN 1 1955

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

Not to be filled in by applicant

Docket No. 3844
Metal or Mineral Uranium
Date Received 6-1-55
Estimated Cost 38,313.00
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:

Lucky Strike Uranium Corporation
38 South Main Street
Salt Lake City, Utah

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

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

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

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

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

See Report - Appendix

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

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

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

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

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

See Report - Page 2

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

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

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you. See Report - Page 6

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

See Report - Page 6

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

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

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

(*c*) The work will start within 20 days and be completed within 3 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See Report - Page 14

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project. See Report - Page 11

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.). See Report - Page 12

(*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. See Report - Page 13

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

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

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

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes. See Report - Page 13

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

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

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

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

[X] Money [ ] 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 5/31, 1955

Lucky Strike Uranium Corporation
(Applicant)

By [signature]

Nathan Wechsler

Power of Attorney

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

POWER OF ATTORNEY

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

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

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

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

IN WITNESS WHEREOF, the said LUCKY STRIKE URANIUM CORPORATION, has executed this power of attorney by causing its name to be hereunto signed by Briant G. Badger, its President, with its corporate seal affixed and attested by R. Dean Jones, its Secretary, this 26th day of March 1955 A.D.

LUCKY STRIKE URANIUM CORPORATION

By: Briant G. Badger
President

ATTEST:

R. Dean Jones
Secretary

STATE OF UTAH

CITY OF SALT LAKE

On the 26th day of MARCH A.D., 1955, personally appeared before me BRIANT G. BADGER and R. DEAN JONES who being by me duly sworn, did say that they are the President and Secretary, respectively, of the above corporation, whose names are signed to the foregoing power of attorney, and who have acknowledged the same before me in the city and county aforesaid.

Witness my hand and notarial seal this 26th day of March 1955.

My Commission Expires:
2-13-59

Robert J. Fellmeth
Notary Public

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ILLUSTRATIONS

Plate

1. Geologic and Claim Map (Front Cover)

2. Photogeologic Map - Mt. Peale 16 showing area. (In Pocket)

APPENDIX

Mining Agreement Following Page 17

Lucky Strike Uranium Corp.
38 South Main Street
Salt Lake City, Utah

REPORT ACCOMPANYING APPLICATION TO DMEA

I. NAME OF APPLICANT

(a) The applicant is the Lucky Strike Uranium Corporation, 38 South Main Street, Salt Lake City, Utah.

(b) The Lucky Strike Uranium Corporation is organized in and doing business under the laws of the State of Utah.

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

(1) President and Director:

Briant G. Badger
2487 Skyline Drive
Salt Lake City, Utah

(2) Vice-President and Director:

Robert Sorbonne
1009 South 14th East Street
Salt Lake City, Utah

(3) Secretary and Director:

R. Dean Jones
560 East 3750 South Street
Salt Lake City, Utah

(4) Treasurer and Director:

John E. Lach
1437 South Wasatch Drive
Salt Lake City, Utah

(5) Director:

Neuman C. Petty
1449 Laird Avenue
Salt Lake City, Utah

(6) Director:

Charles Snyder
Dove Creek,
Colorado

II. PROPERTY RIGHTS

The properties of the corporation which are relative to this application include 49 surveyed claims in Sections 15, 16, 21, 22, 27, 28, 33 and 34. Township 31 South, Range 26 East of the Salt Lake Meridian, San Juan County, Utah.

The names of the claims and the recording data are as follows:

Name of Claim	Book	Page
Betty 1	19	284
Betty 2	19	285
Betty 3	19	285
Betty 4	19	286
Betty 5	19	286
Betty 6	19	287
Betty 7	19	287
Betty 8	19	288
Betty 9	19	289
Betty 10	19	289

Lucky Strike Uranium Corp.
38 South Main Street
Salt Lake City, Utah

Name of Claim	Book	Page
Big Chief 1	23	8
Big Chief 2	23	8
Big Chief 3	23	9
Big Chief 4	23	9
Big Chief 5	23	10
Big Chief 6	23	10
Bottom 4	25	273
Bottom 5	25	273
Bottom 6	25	274
Bottom 7	25	274
Bottom 8	25	275
Bottom 9	25	275
Bottom 10	25	276
Johnny 10	25	351
Log 6	19	296
Log 7	19	297
Log 8	19	297
Log 9	19	298
Log 10	19	298
Poor Boy 1	23	3
Poor Boy 2	23	3
Poor Boy 3	23	4
Poor Boy 4	23	4
Poor Boy 5	23	5
Poor Boy 6	23	5
Poor Boy 7	23	6
Poor Boy 8	23	6
Poor Boy 9	23	7
Poor Boy 10	23	7
Squaw 1	23	95
Squaw 2	23	309
Squaw 3	23	96
Squaw 4	23	96
Squaw 5	23	97
Squaw 6	23	313
Squaw 7	23	98
Squaw 8	23	99
Squaw 9	23	99
Squaw 10	23	100

The locations of the claims are shown in Plate 1 of this application.

The applicant owns the above claims, which are free from any encumbrances except for a 5 per cent royalty on production, by virtue of an outright purchase. No further payments are required to maintain title, except the performance of the minimum annual assessment work required by mining law.

Refer to copy of agreement in the appendix for additional details.

The properties are known as the South Lisbon Valley Claims.

III. PHYSICAL DESCRIPTION

A. History

At the time of submitting this application, no exploration or development work is being carried out on the above described properties.

It is understood that three wagon drill holes were sunk to depths of 70 to 80 feet and low mineralization was recorded. These holes were bottomed in a blue clay horizon in the Salt Wash, and were located for the purpose of intercepting a possible eastwest ore trend established in the Sitton Mine, situated about 460 feet

from the west property line of Poor Boy No. 1 claim. The Sitton property has reportedly produced over $50,000 of uranium-vandium ore from a definite channel occurrence, with settlement sheets showing ore values of 0.30 per cent to 0.35 per cent U_3O_8. The Sitton property was originally mined for vanadium.

The Blue Clay Mine, located northeast of Log No. 6 claim at a distance of approximately 800 feet, occurs in a lenticular sandstone bed in the lower part of the Brushy Basin member about 30 feet above the base.

It is reported that 30 drill holes by the Federal Uranium showed mineralization west of the Blue Clay Area.

The Little Indian Claim (Federal Uranium), which is completely surrounded by Betty Claim Group, is a prospect from which some uranium-vanadium ore has been mined in the past. Some ore samples are reported to run as high as 0.40 per cent U_3O_8. Previous mining and bulldozing indicates that the trend of this ore channel is northeast with an outcrop length of 54 feet and a width of 12 feet.

Three holes were drilled by the Federal Uranium on this claim.

B. Accessibility

The claims in the South Lisbon Valley Group may be reached from Monticello, a distance of approximately 29 miles, by U. S. Highway 160 for 13.5 miles eastward, thence by a country dirt road for 16 miles northward to the claim area.

C. Topography

The claim area is typified by topography formed by canyons and flat table lands, the latter being covered in places with scrub junipers and sage brush.

The central part of the claim area is occupied by Indian Canyon which forms a dry tributary to McIntyre Canyon.

D. Geologic Setting

The stratigraphic section (older to younger) in the claim area and vicinity is composed of the Morrison formation of Jurassic age, which is divided into the Salt Wash (the lower, and principal ore-bearing horizon) and the Brushy Basin members.

Overlying the Jurassic formation, occurs the Burro Canyon formation with undifferentiated Dakota sandstone of Cretaceous age (Refer to Plate 1).

The formations are generally flat lying, although in the central and northern sections of the claim areas, normal faults of small displacements have disturbed usual stratigraphic relationships.

E. Mineralization

A field examination carried out on the applicant's property and adjoining areas indicates that the principal ore-horizon occurs in the second sandstone rim below the top of the Salt Wash member. This rim appears as fairly continuous outcrop in the area. From the Sitton Mine (Refer to Plate), towards the northeast, this second rim crosses the Poor Boy and Big Chief Claims, all located on the southeast wall of Indian Canyon, and this same rim appears to be present on the Johnny No. 10 claim across the canyon to the northwest.

The thickness of this rim varies from 50 to 70 feet along the outcrop, and is positioned approximately 75 to 100 feet below the top of the Salt Wash member.

As mentioned under History, the Sitton Mine was a former producer of vanadium ore and subsequently recovered uranium-vanadium ore reportedly valued at $50,000 with grades of 0.30 per cent to 0.35 per cent U_3O_8. This property is located 460 feet

from the Poor Boy No. 1 claim.

The Little Indian claim, situtated in the center of the Betty Group, has produced uranium-vanadium ore in the past, the highest reported grade being 0.40 per cent U_3O_8. A prospect on this claim, which showed U_3O_8 staining, appears to be located above the producing horizon, near the base of the Brushy Basin.

Three holes drilled on the Poor Boy No. 1 claim carried low mineralization.

From a regional viewpoint, it may be mentioned that the channel trends on the claims of the Dulaney Mining Company, a few miles east of the Lucky Strike Group, are considered to be North 45 degrees west, or generally parallel to the Dolores anticline. It may be interesting to note in this connection that an extension of this broad trend would cross the properties under consideration.

Lucky Strike Uranium Corp.
38 South Main Street
Salt Lake City, Utah

IV. THE EXPLORATION PROJECT

A. Objective

The objective of the exploration program is the discovery of uranium-vanadium ore.

B. Proposed Work

Stage 1

Of the 49 claims involved in this exploration project, the equivalent of 12 claim areas are unsuitable for drilling because of (a) their location below the ore horizon or (b) the excessive hole depth required to reach the ore horizon. For these reasons, the 12 claim areas have been eliminated from the drilling program, leaving a balance of approximately 37 claim areas.

Holes collared in the Salt Wash horizon will average 100 feet in depth, and it is estimated that 41 holes would be required to prospect the acreage involved on a 500-foot grid basis, or 4100 feet. This work would be done by wagon drilling provided the ground is not too wet.

Holes collared in the Brushy Basin formation would average 200-foot in depth and it is estimated that 25 holes would be necessary to establish a 500-foot grid spacing. The footage for the drilling

would approximate 5000 feet, and open-hole rotary work is recommended for holes of this depth.

For the estimated 9100 feet of drilling in Stage 1, it is understood that a 500-foot grid spacing will be for the primary purpose of obtaining a better understanding of the subsurface geologic conditions, especially those related to thickness, characteristics, and mineralization of the Salt Wash Ore horizon. It is further understood that with small ore bodies of the Salt Wash type, drill hole spacing should not exceed 50 feet, and probably as closely spaced as 25 feet, to disclose hidden ore deposits in the area.

Stage 2

This stage would be represented by drilling to follow-up any favorable holes or areas determined by Stage 1 drilling. On a basis of 50 per cent additional drilling footage completed in Stage 1, about 4500-foot would be required.

Summary of Stage 1 and 2

Stage	Wagon Drilling	Rotary
1	4100 ft.	5000 ft.
2	2500	2000
	6600 ft.	7000 ft.

A total of 13600 feet of drilling would prospect the claim area as calculated. Drilling to block out ore reserves would not form part of the DMEA program.

Bulldozing in Stages 1 and 2 would be required to clear drilling sites, and with the exception of the higher ground underlain by the Brushy Basin formation, where drill roads would be necessary, the bulldozing work would be comparatively easy.

Radiometric logging would be carried out in all holes as the work progressed.

In summary, it may be mentioned that no rigid rules may be laid down at this time regarding the precise locations of the holes, as this factor will be dependent upon the results obtained. It is estimated, however, that the 13600 feet of drilling would adequately explore the property.

V. ESTIMATE OF COSTS

Costs for the project have been estimated on the basis of 13600 feet of drilling where an average of 200 feet of drilling is completed per day. The work under this program, therefore, should be completed within 3 months, with one drill (either wagon or rotary), and this period of time will be used in the calculations.

Lucky Strike Uranium Corp.
38 South Main Street
Salt Lake City, Utah

Stages 1 and 2

(1) Independent Contracts

(a)	6600 feet of wagon drilling @ $1.00 per foot (including delays, stand-by time, etc.)	$ 6600
(b)	7000 feet of rotary drilling @ $2.00 per foot (including delays, stand-by time, etc.)	14000
(c)	Clearing drill sites, bull-dozing (20 days @ $125 per day)	2500
(d)	Assaying (400 samples @ $5 each)	2000
(e)	Surveying(5 days @ $125 per day)	625
	Subtotal	$25725

(2) Labor, Supervision and Consultants

(a)	Common labor (1 man @ $400 per month x3)	$1200
(b)	Geologist ($600 per month x3)	1800
(c)	Consultant (Geology)	1000
		$4000

Lucky Strike Uranium Corp.
38 South Main Street
Salt Lake City, Utah

(3) Operating Equipment & Supplies

(a) Truck (3 months @ $500 per month, including gas, oil, repairs, etc.)	$1500
(b) Butler Building (3 months rental @ $50 per month)	150
(c) Sample Bags (400 @ .20 ea.)	80
Subtotal	$1730

(4) Miscellaneous $2000

Summary of Estimated Costs

(1) Independent Contracts	$25100
(2) Labor, Supervision and Consultants	4000
(3) Operating Equipment & Supplies	1730
(4) Miscellaneous	2000
	$34830
(5) Add 10% Contenguencies	3483
Total Estimated Cost	$38313

VI. OPERATING EXPERIENCE AND BACKGROUND OF APPLICANT

The backgrounds of the Officers and Directors of the Company are as follows:

Briant G. Badger, is president and director. He is a partner of Bradley-Badger Company, Salt Lake City, Utah, and is general manager of the Diamond Jim Mining Company, a producing lead and silver property in the Island Mountain Mining District, Elko County, Nevada. He holds 170,000 shares of stock of the issuer, for which he paid par.

Robert Sorbonne, is vice-president and director. He is a practicing dentist and vice-president of the Salt Lake chapter of the Utah Dental Association. He holds 100,000 shares of the stock of the issuer, for which he paid par.

R. Dean Jones, is secretary and director. He is presently employed in sales and advertising work. He holds 75,000 shares of the stock of the issuer, for which he paid par.

John E. Lach, is treasurer and director. He is a licensed contractor and landscape architect. He has been engaged in construction of residential and commercial buildings for the past sixteen years. He holds 100,000 shares of the stock of the issuer, for which he paid par.

Neuman C. Petty, is a director. He is president and general manager of Petty Motor Company, Salt Lake City, Utah, president of Sugarhouse Finance Company, Salt Lake City, Utah, and is president of the Utah Automobile Dealers Association. He holds 50,000 shares of the stock of the issuer, for which he paid par.

Charles Snyder, is a director. He is a farmer rancher, and has lived most of his life in the Colorado Plateau area. He holds 150,000 shares of the stock of the issurer, for which he paid par.

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

Education:	University of Minnesota University of Oklahoma B. S. Geology, 1934 (Phi Beta Kappa)
1924 - 1934	Experience as diamond drill runner and diamond setter and superintendent of drilling operations.
1934 - 1935	Superintendent of Diamond Drilling, East African Goldfields, Ltd., Lupa Goldfield, Tanganyika, East Africa.
1936 - 1939	Consultant on Exploration and Diamond Drilling for New Consolidated Gold Fields, Ltd., Nigel Gold Mining Company, Ltd., South Roodepoort Main Reef Areas, Ltd., and other companies on the Rand, South Africa.

1939 - 1945	(Except for one and one-half years in the armed forces) Director of Research, New Consolidated Gold Fields - Boart Products Diamond Research Laboratory, Johannesburg; also Superintendent of Diamond Drilling Operations, New Consolidated Gold Fields, Ltd.
1945 - 1948	Manager, Boart Products, South Africa, Ltd., and Director, South African Diamond Crowns, Ltd., Johannesburg.
1948 - 1951	Licenced Diamond Dealer, Johannesburg; also Director, St. Clair Exploration Company (Pty) Ltd.
1951 - 1954	Consulting Mining Geologist.

APPENDIX

C O P Y

AGREEMENT

Minerals Administration
RECEIVED

THIS AGREEMENT, entered into on this 25th day of August, 1954 between Walter B. Snyder of Dove Creek, Colorado and R. J. Fellmeth of Moab, Utah hereinafter referred to as the Seller, and Lucky Strike Uranium Corporation, a corporation duly organized and incorporated pursuant to the laws of the sovereign State of Utah, hereinafter referred to as the buyers, WITNESSETH:

THAT WHEREAS, The Sellers desire to sell, transfer, and convey all of their right, title and interest in certain unpatented lode mining claims to the buyer;

AND WHEREAS, the buyer is represented to the sellers as being a corporation duly authorized under the laws of Utah to buy, sell, operate and traffic in mining ventures and that said buyer desires to purchase all of the sellers right, title and interest in certain unpatented lode mining claims,

NOW THEREFORE, the following conditions are entered into of our own free volition and will:

1. The sellers agree to sell, transfer, and convey to the buyer by quit claim deed who hereby agrees to purchase and receive the 89 unpatented lode mining claims and/or tract of 600 feet by 1500 feet covered by leases executed by the Atomic Energy Commission

pursuant to Domestic Uranium Program Circular 7, which are designated and listed on Exhibit A to this agreement. Said Exhibit A is hereby incorporated in the agreement by reference and is made a part hereof.

2. The buyer agrees to pay and the seller agrees to receive $870.00 for each claim or tract of land on which a satisfactory title is delivered.

3. The amount of $870.00 per claim will constitute the total consideration for the transfer and conveyance of the claims or tract of land covered by the agreement.

4. The buyer agrees to pay and the seller agrees to receive an installment of $24,030.00 upon the signing of this agreement, the receipt of which is hereby acknowledged, and that the balance of $53,400.00 of the total consideration of $77,430.00 which will be determined under this agreement is to be due and payable to the seller on or before December 1, 1954. Buyer shall do no drilling on said claims until full payment is received.

5. Sellers reserve from said sale five (5) per cent gross royalty out of production from any ores mined, marketed, and produced by Buyer from the following designated claims, with the right to elect to receive payment from the point of marketing:

	No. of Claims
Poor Boy Nos. 1 to 10, inclusive	10
Squaw Nos. 1 to 10, inclusive	10
Log Nos. 6 to 10, inclusive	5
Betty Nos. 1 to 10, inclusive	10
Johnny No. 10	1
Bottom Nos. 1 to 10, inclusive	10
Big Chief Nos. 1 to 6, inclusive	6
Total	52

Other claims carry no royalty.

6. The buyer may sell, assign or transfer his right under the agreement, but the interest of the seller is established by this agreement, ore not to be changed, altered, or damaged in any respect by any action of said buyer and the buyer is to remain properly liable under this agreement.

7. The seller is to furnish the buyer with a quit claim deed to each claim or tract of land under this agreement and if such quit claim deed conveying marketable title cannot be furnished by the seller to any particular claim or tract of land, the buyer is released from any obligation under this agreement in reference to that particular claim or tract of land. Such release will not affect the respective right and liability of the parties in respect to the remaining claims or tract of land.

8. The terms and provisions of this agreement shall survive the execution of any deed and shall be binding upon

the heirs, legal representatives and assigns of the parties hereto. This agreement may not be changed orally.

IN WITNESS WHEREOF, this agreement has been duly executed by the parties hereto.

LUCKY STRIKE URANIUM CORPORATION,

PURCHASER

By: /S/ Briant T. Badger
PRESIDENT

By: /S/ R. Dean Jones
SECRETARY

SELLERS:

/S/ Walter B. Snyder
Walter B. Snyder

/S/ R. J. Fellmeth
R. J. Fellmeth

State of Utah)
County of Salt Lake) ss:

On this 25th day of August, 1954, personally appeared before me the signers of the above instrument, who duly acknowledged to me that they executed the same.

In witness whereof. I have hereto attached my hand and seal this 25th day of August, 1954.

/S/ T. A. Bennion
Notary Public

EXHIBIT A

NAME OF CLAIM	DATE OF RECORDING	BOOK	PAGE
Johnny #10	May 15, 1953	25	351
Poor Boy #1	March 21, 1953	23	3
Poor Boy #2	March 21, 1953	23	3
Poor Boy #3	March 21, 1953	23	4
Poor Boy #4	March 21, 1953	23	4
Poor Boy #5	March 21, 1953	23	5
Poor Boy #6	March 21, 1953	23	5
Poor Boy #7	March 21, 1953	23	6
Poor Boy #8	March 21, 1953	23	6
Poor Boy #9	March 21, 1953	23	7
Poor Boy #10	March 21, 1953	23	7
Betty #1	March 21, 1953	19	284
Betty #2	March 21, 1953	19	285
Betty #3	March 21, 1953	19	285
Betty #4	March 21, 1953	19	286
Betty #5	March 21, 1953	19	286
Betty #6	March 21, 1953	19	287
Betty #7	March 21, 1953	19	287
Betty #8	March 21, 1953	19	288
Betty #9	March 21, 1953	19	288
Betty #10	March 21, 1953	19	289
Squaw #1	March 31, 1953	23	95
Squaw #2	March 31, 1953	23	309
Squaw #3	March 31, 1953	23	96
Squaw #4	March 31, 1953	23	96
Squaw #5	March 31, 1953	23	97
Squaw #6	March 31, 1953	23	313
Squaw #7	March 31, 1953	23	98
Squaw #8	March 31, 1953	23	99
Squaw #9	March 31, 1953	23	99
Squaw #10	March 31, 1953	23	100
Big Chief #1	March 21, 1953	23	8
Big Chief #2	March 21, 1953	23	8
Big Chief #3	March 21, 1953	23	9
Big Chief #4	March 21, 1953	23	9
Big Chief #5	March 21, 1953	23	10
Big Chief #6	March 21, 1953	23	10

Log #6	March 21, 1953	19	296
Log #7	March 21, 1953	19	297
Log #8	March 21, 1953	19	297
Log #9	March 21, 1953	19	298
Log 10	March 21, 1953	19	298
Lucky Strike #1	March 19, 1953	71	107
Lucky Strike #2	March 19, 1953	71	108
Lucky Strike #3	March 19, 1953	71	108
Lucky Strike #4	March 19, 1953	71	109
Lucky Strike #5	March 19, 1953	71	109
Lucky Strike #6	March 19, 1953	71	110
Lucky Strike #7	March 19, 1953	71	110
Bottom #4	March 16, 1953	25	273
Bottom #5	March 16, 1953	25	273
Bottom #6	March 16, 1953	25	274
Bottom #7	March 16, 1953	25	274
Bottom #8	March 16, 1953	25	275
Bottom #9	March 16, 1953	25	275
Bottom #10	March 16, 1953	25	276
Rock Wall #1	December 16, 1953	45	111
Rock Wall #2	December 16, 1953	45	111
Rock Wall #3	December 16, 1953	45	112
Rock Wall #4	December 16, 1953	45	112
Rock Wall #5	December 16, 1953	45	113
Rock Wall #6	December 16, 1953	45	113
Rock Wall #7	December 16, 1953	45	114
Rock Wall #8	December 16, 1953	45	114
Top Side #1	December 18, 1953	45	152
Top Side #2	December 18, 1953	45	152
Top Side #3	December 18, 1953	45	153
Top Side #4	December 18, 1953	45	153
Uranium Chief #16	June 15, 1954	109	366
Uranium Chief #17	June 15, 1954	109	367
Uranium Chief #18	June 15, 1954	109	367
Uranium Chief #19	June 15, 1954	109	368
Uranium Chief #20	June 15, 1954	109	368
Uranium Chief #21	June 15, 1954	109	369
Uranium Chief #22	June 15, 1954	109	369
Uranium Chief #23	June 15, 1954	109	370

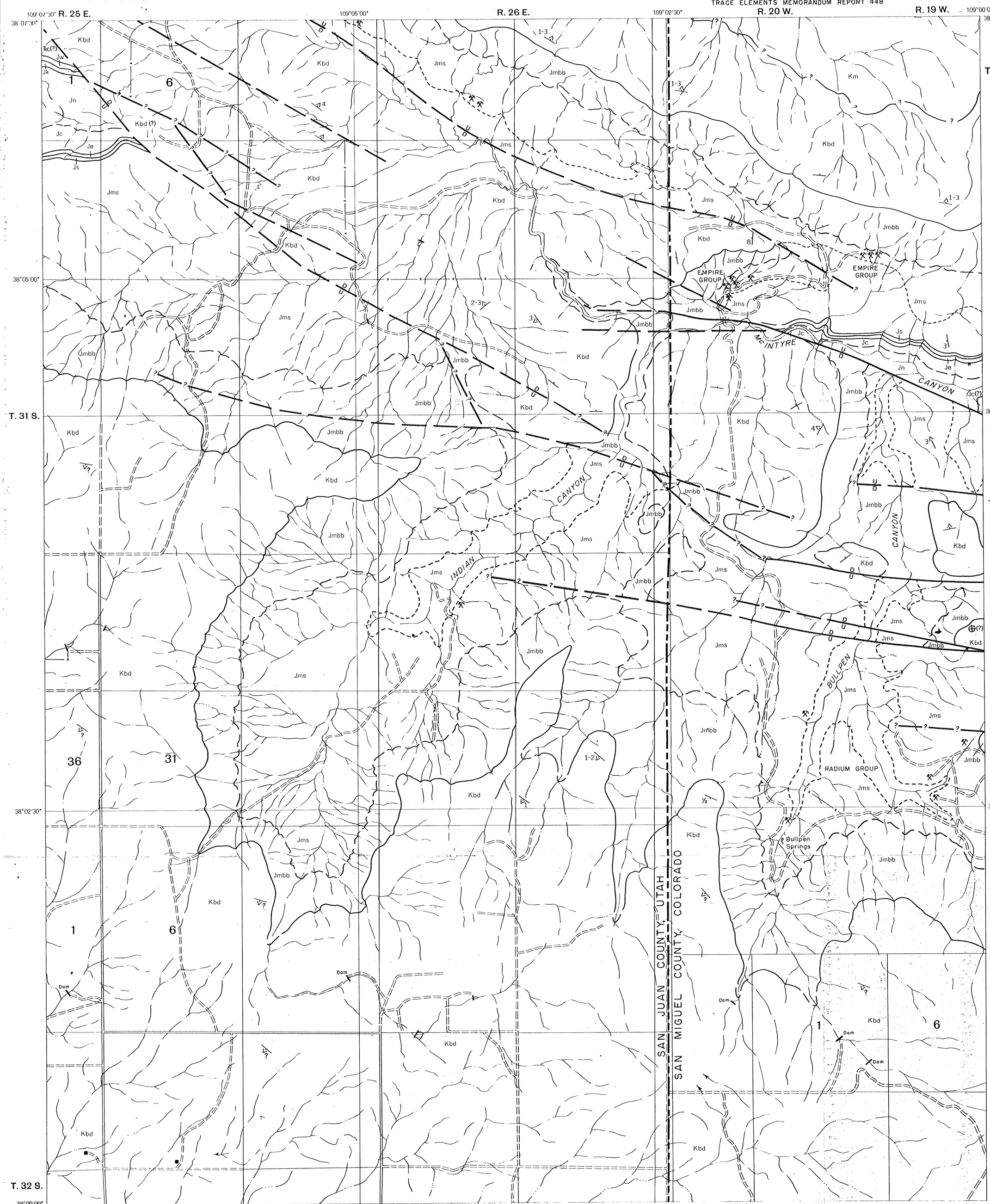
Uranium Chief #24	June 15, 1954	109	370
Uranium Chief #25	June 15, 1954	109	371
Uranium Chief #26	June 15, 1954	109	371
Uranium Chief #27	June 15, 1954	109	372
Uranium Chief #28	June 15, 1954	109	372
Uranium Chief #29	June 15, 1954	109	373
Uranium Chief #30	June 15, 1954	109	373
Uranium Chief #31	June 15, 1954	109	374
Uranium Chief #32	June 15, 1954	109	374
Uranium Chief #33	June 15, 1954	109	375

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 448



EXPLANATION

QUATERNARY

Qal — Alluvium
Valley fill and terrace gravel

CRETACEOUS

Upper: Km — Mancos shale

Lower: Kbd — Burro Canyon formation and Dakota sandstone, undifferentiated (In places may be covered by thin mantle of Mancos shale (Upper Cretaceous))

JURASSIC

Upper: Jmbb, Jms — Morrison formation
Brushy Basin shale member, Jmbb; Salt Wash sandstone member, Jms. Dashed line shows position of base of carnotite-bearing sandstone

Js — Summerville formation

Je — Entrada formation

Middle: Jc — Carmel formation

JURASSIC (?)

Jn — Navajo sandstone

Jk — Kayenta formation

TRIASSIC

Jw — Wingate sandstone

Upper: Rc — Chinle formation

Contact
(Can be accurately located within 30 feet horizontally)

Contact
(Can be approximately located within 30 to 200 feet horizontally)

Contact
(Cannot be located accurately; probable error greater than 200 feet)

Probable or doubtful contact

Fault
(Dashed where approximately located)

Probable or doubtful fault

High-angle fault
(U, upthrown side; D, downthrown side)

Strike and dip of beds
(Based on field measurement)

Strike and dip of beds
(Based on photo-interpretation)

Horizontal beds

Mine or quarry

Spring

Primary road

Secondary road

Trail

Fence

State boundary

BASE MAP COMPILED BY SOIL CONSERVATION SERVICE
U S DEPT. OF AGRICULTURE

JULY 1952

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

MT. PEALE QUADRANGLE

TRUE NORTH 15°

PHOTOGEOLOGIC MAP
MT. PEALE - 16
UTAH - COLORADO

PHOTOGEOLOGY BY R. J. HACKMAN
PHOTOGEOLOGIC UNIT, ALASKAN GEOLOGY BRANCH

SCALE 1:24,000
0 — 1 MILE

Stratigraphic column modified from Colorado Geol. Survey Bull. 16; U. S. Geol. Survey Strategic Minerals Inv., Geologic map of vanadium region of southwestern Colorado and southeastern Utah, by R. P. Fischer, 1944; Oil and Gas Inv., Prelim. Map 93; and U. S. Geol. Survey unpublished report.

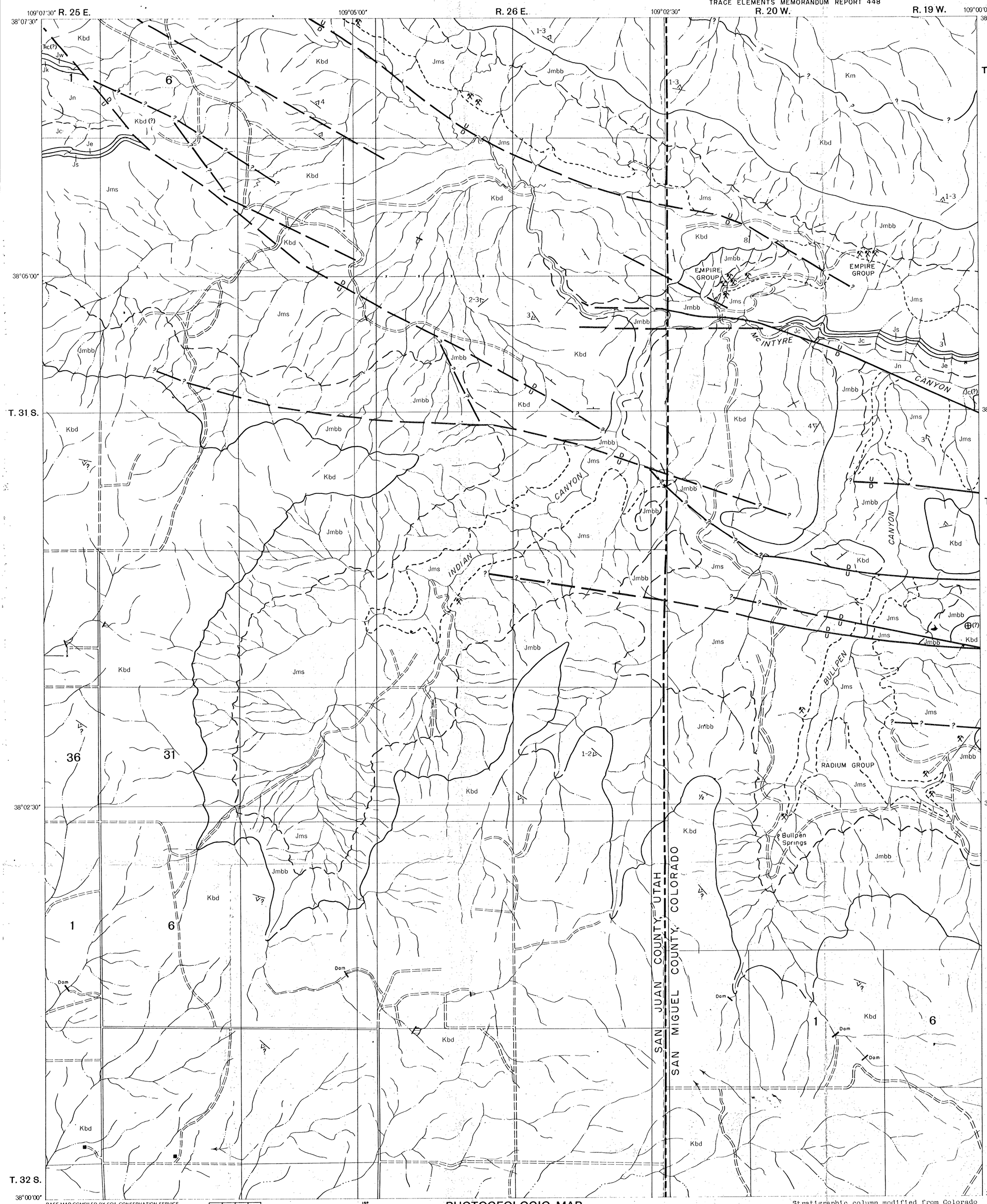
U 288 SE

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 448



EXPLANATION

QUATERNARY

- **Qal** — Alluvium; Valley fill and terrace gravel

CRETACEOUS

- Upper: **Km** — Mancos shale
- Lower: **Kbd** — Burro Canyon formation and Dakota sandstone, undifferentiated (In places may be covered by thin mantle of Mancos shale (Upper Cretaceous))

JURASSIC

- Upper: **Jmbb**, **Jms** — Morrison formation; Brushy Basin shale member, Jmbb; Salt Wash sandstone member, Jms. Dashed line shows position of base of carnotite-bearing sandstone
- Upper: **Js** — Summerville formation
- Upper: **Je** — Entrada formation
- Middle: **Jc** — Carmel formation
- **Jn** — Navajo sandstone

JURASSIC (?)

- **Jk** — Kayenta formation
- **Jw** — Wingate sandstone

TRIASSIC

- Upper: **Ꞧc** — Chinle formation

Contact
(Can be accurately located within 30 feet horizontally)

Contact
(Can be approximately located within 30 to 200 feet horizontally)

Contact
(Cannot be located accurately; probable error greater than 200 feet)

Probable or doubtful contact

Fault
(Dashed where approximately located)

Probable or doubtful fault

High-angle fault
(U, upthrown side; D, downthrown side)

Strike and dip of beds
(Based on field measurement)

Strike and dip of beds
(Based on photo-interpretation)

Horizontal beds

Mine or quarry

Spring

Primary road

Secondary road

Trail

Fence

State boundary

BASE MAP COMPILED BY SOIL CONSERVATION SERVICE
U. S. DEPT. OF AGRICULTURE

JULY 1952

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

MT. PEALE QUADRANGLE

TRUE NORTH 15°

PHOTOGEOLOGIC MAP
MT. PEALE - 16
UTAH - COLORADO

PHOTOGEOLOGY BY R. J. HACKMAN
PHOTOGEOLOGIC UNIT, ALASKAN GEOLOGY BRANCH

SCALE 1:24,000
0 1 MILE

Stratigraphic column modified from Colorado Geol. Survey Bull. 16; U. S. Geol. Survey Strategic Minerals Inv., Geologic map of vanadium region of southwestern Colorado and southeastern Utah, by R. P. Fischer, 1944; Oil and Gas Inv., Prelim. Map 93; and U. S. Geol. Survey unpublished report.

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