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Surname 700

Murphy
Ellis
Hudson
Kilsgaard
Selfridge
Johnson

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

JUL - 5 1955

Mr. George C. Heikes, Vice President
British-Western American Uranium Corp.
C. A. Johnson Building
509 Seventeenth Street
Denver, Colorado

Re: Docket No. DMEA-3709 (Uranium)
Gray Mesa Group
Montrose County, Colorado

Dear Mr. Heikes:

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, although noting a small amount of uranium mineralization on your property, 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, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy:am
6-29-55
cc to: Admr. Reading File
Operating Committee
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

A.C.H.

(Docket Copy) 700

Murphy
Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.

June 29, 1955

SUMMARY OF PROPOSED PROJECT

Object: Denial of application for an exploration project.

Docket No.: DMEA-3709

Commodity: Uranium

Applicant: British-Western America Uranium Corporation
C. A. Johnson Building
509 Seventeenth Street
Denver, Colorado

Property: Owner, "WRAY MESA Group," consisting of 51 unpatented claims located in secs. 4, 5,8,9,16, and 17, T.46 N., R.19 W., Montrose County, Colorado

Date of Application: February 25, 1955

Date of Field Team Referral: March 21, 1955

Date Field Team Report received: June 17, 1955

Amount of Application: $20,718.00

Work Proposed: 5,000 feet wagon drilling. (80 holes averaging 66 feet in depth)

Estimated Costs: (3 months for completion)

5,000 feet drilling @ $2.00/ft.	$10,000.00
Access roads and drill-sites, Bulldozing 200 hours @ $12.50/hr.	2,500.00
Labor, Supervision, Consultants	3,600.00
Operating Materials and Supplies	1,210.00
Operating Equipment	1,525.00
Contingencies	1,883.00
Total Estimated Cost of Project	$20,718.00

Field Team
Report of
Examination,
Transmitted: June 14, 1955

The claims are on the southwestern part of Wray Mesa overlooking the valley of the Dolores River which is about 2 miles east of the claims.

In the vicinity of the subject claims uranium mineralization is normally found in the uppermost sandstone lenses of the Salt Wash member of the Morrison formation.

The rocks exposed on the Pole Cat, Boomer, and Hot Rock groups of claims which comprise the "Wray Mesa Group" are those of the Salt Wash member of the Jurassic Morrison formation. The exposed rocks present almost the entire Salt Wash section, but only in the north central part of the claim group is the uppermost sandstone, a lenticular, light brown to white sandstone, known as the "ore-bearing sandstone" present in errosinal remnants. The ore-bearing sandstone has been eroded from the remaining area. No complete section of the "ore-bearing sandstone" was observed on the claims. The beds dip slightly to the south. A north trending fault with a measured displacement of 125 feet passes through the northeast corner of the claim group. The beds are upthrown to the east of the fault, making it extremely unlikely that the "ore-bearing sandstone" is present in the alluvium covered northeast portion of the group.

The examining team found that the ore-bearing sandstone outcrops as thin erosional remnants in the north end of the claim group. Only a trace of mineralization was observed in a very thin manganiferous siltstone lying beneath the "ore-bearing sandstone." It is extremely doubtful that uranium of ore grade and quantity would be found in such an unfavorable environment. It is recommended that the subject application be denied for the following reasons: 1) the mineralization on the property was not of ore grade and in only trace quantity; 2) the presence of a fault in the claim group area eliminates the presence of "ore-bearing sandstone" in the east central and northeast areas of the claim group; and 3) the only present normally, "ore-bearing sandstone" is in the north central part of the claim group and it is deemed unfavorable for uranium deposits.

Commodity Committee Members' Comments

U. S. Geological Survey

Mr. N. E. Nelson, June 21, 1955

"The conclusions of the Field Team are accepted as correct, but should the patch in the northern end of the property, Fig. 2. Geological Map, be labeled, "Outcrop of ore-bearing sandstone?"

"I concur with the recommendation of denial."

U. S. Bureau of Mines

John E. Crawford, June 24, 1955, in part states:

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

Rare and Miscellaneous Metals Division

F. M. Murphy, June 29, 1955

Because the potential ore-bearing upper sandstone lenses of the Salt Wash member have been almost entirely erroded on the subject claims, there is very little possibility that significant uranium ore deposits would be disclosed by the drilling program proposed by the Applicant. Therefore this Division concurs with the Field Team in recommending that the subject application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis

6/28/55 gla

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

RECEIVED

June 24, 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 3709 (Uranium), British-Western America Uranium Corp., Boomer, Hot Rock and Pole Cat groups, Montrose County, Colorado

I have reviewed the Field Team report of examination, DMEA Docket 3709; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

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

The report has been 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.

June 24, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 6445

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

Subject: Report of Examination, DMEA Docket 3709 (Uranium), British-Western American Uranium Corp., Beaver, Hot Rock and Pole Cat groups, Montrose County, Colorado

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

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

John E. Crawford

JECrawford:et
Copy to: Div. of Minerals
Br. of Rare and Precious Metals
J. O. Hosted
J. E. Crawford
F i l e s

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

June 24, 1955

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Uranium Commodity Committee, Room 4445

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

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

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

John E. Crawford

JECrawford:et
Copy to: Div. of Minerals
Br. of Rare and Precious Metals
J. O. Hested
J. E. Crawford
F i l e s

Murphy

6/22/55-gh

IN REPLY REFER TO:

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

RECEIVED
JUN 22 1955

June 21, 1955

Re: DMEA-3709
British-Western America
Uran. Corp.
Boomer, Hot Rock and
Pole Cat Groups
Wray Mesa, La Sal Creek
Mining District
Montrose Co., Colorado
$20,718.00 - 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 conclusions of the Field Team are accepted as correct, but should the patch in the northern end of the property, Fig. 2, Geologic Map, be labeled, "Outcrop of Ore-Bearing Sandstone?"

I concur with the recommendation of denial.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
JUN 2 2 1955

June 21, 1955

Re: DMEA-3709
British-Western America Uran. Corp.
Boomer, Hot Rock and Pole Cat Groups
Wray Mesa, La Sal Creek Mining District
Montrose Co., Colorado
$20,718.00 - 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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I concur with the recommendation of denial.

N. E. Nelson

N. E. Nelson

NENelson:hlm
G-6/21/55

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

IN REPLY REFER TO:

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

RECEIVED
JUN 22 1955

June 21, 1955

Re: DMEA-3709
British-Western America Uran. Corp.
Rosmer, Hot Rock and Pole Cat Groups
Wray Mesa, La Sal Creek Mining District
Montrose Co., Colorado
$20,715.00 - 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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I concur with the recommendation of denial.

N. E. Nelson

N. E. Nelson

NENelson:hlm
G-6/21/55

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

IN REPLY REFER TO:

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

RECEIVED
JUN 22 1955

June 21, 1955

Re: DMEA-3709
British-Western American
Uran. Corp.
Boomer, Hot Rock and
Pole Cat Groups
Wray Mesa, La Sal Creek
Mining District
Montrose Co., Colorado
$20,718.00 - 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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I concur with the recommendation of denial.

N. E. Nelson

N. E. Nelson

NENelson:hlm
G-6/21/55

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

6/22/55

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

RECEIVED
JUN 17 1955

224 New Customhouse
Denver 2, Colorado

June 14, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3709 (Uranium), British-Western America Uranium Corp., Boomer, Hot Rock and Pole Cat groups, Montrose County, Colorado

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.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
6-20-55
(date)

/DMEA
Date Rec'd.

JUN 9 1955

RECEIVED
JUN 17 1955

TRANSMITTED
JUN 14 1955

BUREAU OF MINES
Denver, Colorado

Region III

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
June 6, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: DMEA 3709, British-Western America Uranium Corporation (Boomer, Hot Rock, and Pole Cat claim group) Wray Mesa, La Sal Creek Mining District, Montrose County, Colorado

Enclosed are the original and eleven copies of a "Summary, Conclusions, and Recommendations," by W. D. McMillan, mining engineer, Bureau of Mines, and J. L. Gualteri, geologist, Geological Survey, and the original and eleven copies of an engineering report by W. D. McMillan, covering DMEA 3709.

The British-Western America Uranium Corporation applied for exploration assistance in the amount of $20,718.00 to explore the Boomer, Hot Rock, and Pole Cat group of claims by 5,000 feet of wagon drilling. The field examination was made on April 7, 1955, by an examining team from the Bureau of Mines and Geological Survey. The examining team concluded that there was little possibility of discovering a significant amount of uranium as a result of the proposed exploration. It is recommended that the application by denied.

W. H. King, for
John F. Shaw

cc 11
DMEA 3709
DMEA Chron.

JFS/pah

6-20-55

RECEIVED
JUN 17 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3709, Boomer, Hot Rock and Pole Cat Claim Group
British-Western America Uranium Corporation
Wray Mesa, La Sal Creek Mining District
Montrose County, Colorado

Uranium

W. D. McMillan, Mining Engineer
Bureau of Mines

J. L. Gualteri, Geologist
Geological Survey

June 1, 1955

Reviewed by
DMEA OPERATING COMMITTEE
6-20-55
(date)

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

RECEIVED
JUN 17 1955

Summary, Conclusions, and Recommendations

By W. D. McMillan
Mining Engineer
Bureau of Mines

J. L. Gualteri
Geologist
Geological Survey

Reviewed by
DMEA OFFICIALS (PTNERS)
6-20-55
(date)

TRANSMITTED
JUN 14 1955

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

RECEIVED
JUN 17 1955

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By W. D. McMillan and J. L. Gualteri

An application was made to the Defense Minerals Exploration Administration for Government assistance in exploration of a group of 51 claims in Montrose County, Colorado, which were located in May, June, and July, 1954 and transferred to the applicant in December, 1954. The applicant proposed wagon drilling at an estimated cost of $20,718.00 for 5,000 feet of drilling in 80 holes averaging 66 feet in depth. Government participation at 75 percent would be $15,538.50.

A field examination was made on April 7, 1955.

The claims are on the southwestern part of Wray Mesa overlooking the valley of the Dolores River about 2 miles east of the claims. From Moab they are reached by driving south 24 miles on U. S. Highway 160 to Utah State Highway 46, thence east 19 miles to a truck road, thence south a distance of about 14 miles.

Eroded parts of the Salt Wash member of the Jurassic Morrison formation outcrop over most of the property. In the La Sal Creek Mining District, most of the uranium ore is in from 2 to 3 sandstone beds in the upper part of the Salt Wash member. A shallow thickness of the ore-bearing sandstones occurs in parts of 3 claims in the northwestern area.

Only traces of uranium mineralization were found in a thin bed of manganiferous silt stone beneath the ore bearing sandstone. Radiometric tests in the sandstone were negative.

The examining team recommends denial of DMEA application 3709.

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

RECEIVED
JUN 17 1955

Engineering Report

By W. D. McMillan
Mining Engineer
Bureau of Mines

Reviewed by
DMEA Classification Committee
6-20-55
(Date)

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

RECEIVED
JUN 17 1955

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Conclusions 5
Recommendations 5

ILLUSTRATIONS

Figure — Follows Page

1. Location map, British-Western America Uranium Corporation, Inc., properties, Wrey Mesa, Montrose County, Colo. DMEA 3709 2

2. Sketch map of British-Western America Uranium Corporation, Inc. claims and proposed exploration, Wrey Mesa, Montrose County, Colo. DMEA 3709 5

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

RECEIVED
JUN 17 1955

ENGINEERING REPORT

By W. D. McMillan

INTRODUCTION

The British-Western America Uranium Corporation applied for Defense Minerals Exploration Administration assistance for exploration by rotary drilling of their 51 claims on Wray Mesa, Montrose County, Colorado.

Their proposal was for a first stage of 40 holes spaced at 200-foot centers, with a total depth of 2,500 feet; if favorable results were obtained, this would be followed by an additional 40 holes, and bring the total drilling to 5,000 feet at an estimated total cost of $20,718.00, Government participation at 75 percent or $15,538.50.

An examination by a DMEA Region III examining team consisting of W. D. McMillan of the Bureau of Mines and Douglas Carter, Jim Worman, and J. L. Gualteri of the Geological Survey was made on April 7, 1955. An attempt to have a representative of the applicant present was unsuccessful.

This examination and further investigation by J. L. Gualteri resulted in the examining team recommending denial of the application for the geological reasons given in this report.

Reviewed by
DMEA OPERATING COMMITTEE
6-20-55
(date)

ACKNOWLEDGMENTS

Data pertaining to the Wray Mesa Group were obtained from personal observation and from experience and mapping of the Geological Survey members of the team.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Boomer-Hot Rock-Pole Cat Claim Group consists of 51 claims located in secs. 4, 5, 8, 9, 16 and 17, T. 46 N., R. 19 W., N.M.P.M., in the southwestern corner of the U. S. Geological Paradox Quadrangle, Montrose County, Colorado. The claims are the Boomer Nos. 1 to 30, Hot Rock Nos. 1 to 10, and Pole Cat Nos. 1 to 11 with an area of about 1,000 acres. They are on a mesa 2.5 miles west of the Dolores River, and 4 miles south of La Sal Creek and are reached most easily from Moab, Utah, by driving south 24 miles on U. S. Highway 160 to the junction with Utah State Highway 46 (as shown on fig. 1), thence east on this highway for 19 miles, and over a truck trail leading south up a hill for 7 miles. Here the road branches, and the south branch should be taken from the Upper Mesa for 7 miles, where there is a large sage brush flat. A rough road 1 mile in length leads to the northwest corner of the Pole Cat No. 11 claim. A discovery post and three shallow pits are at the north center of the Pole Cat No. 1 claim. During the summer and autumn the 15 miles to the claims is passable, but during the winter and spring they can be reached only by 4-wheel drive vehicles.

La Sal, 26 miles, and Moab, 58 miles distant from the claims, are the nearest sources of supply, and at Moab there is also an Atomic Energy Commission purchasing depot.

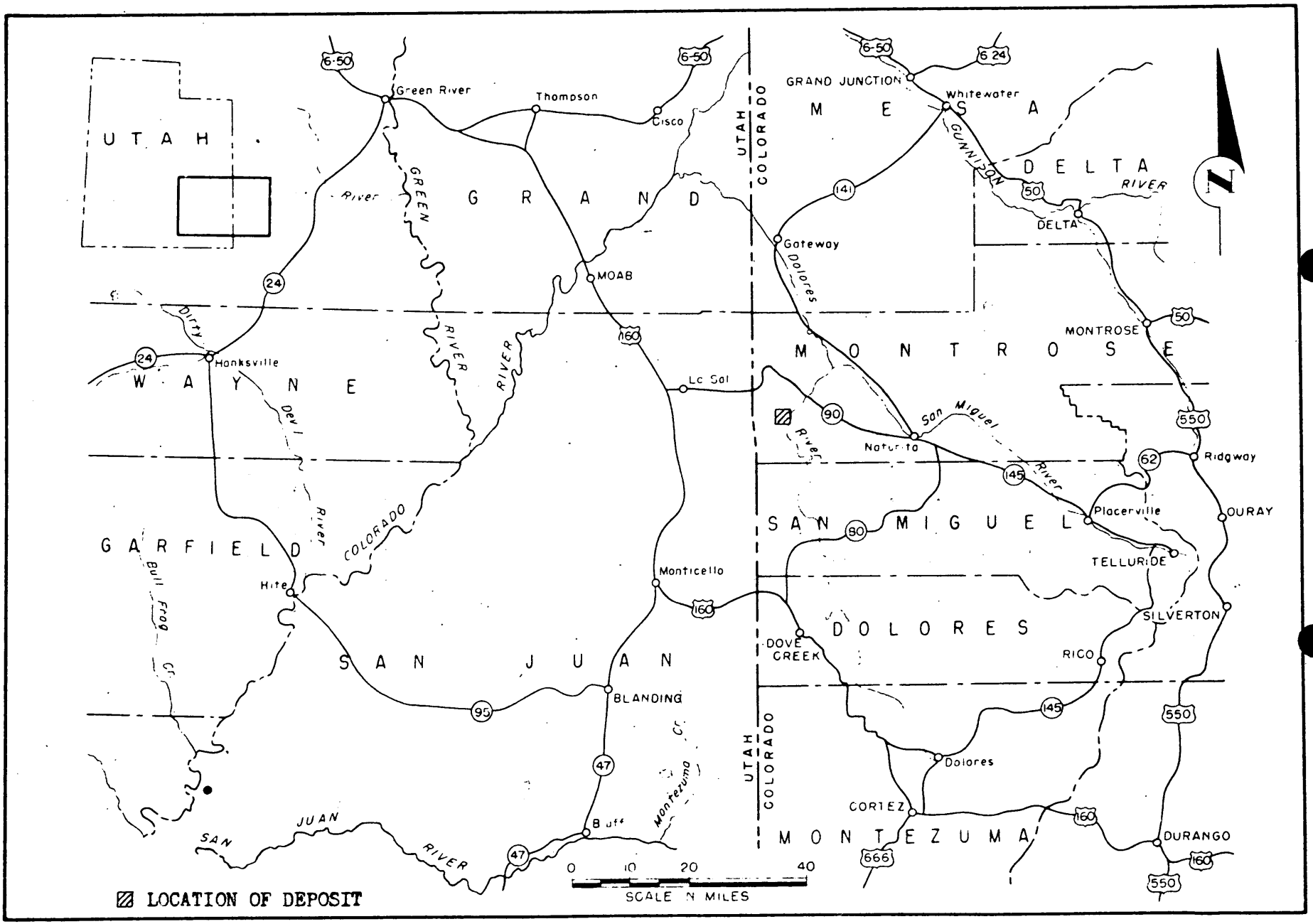


FIGURE 1 - LOCATION MAP, BRITISH-WESTERN AMERICA URANIUM CORPORATION, INC., PROPERTIES, WREY MESA, MONTROSE COUNTY, COLO. DMEA 3709

The topography of the area is relatively flat with a relief of 230 feet and a mean altitude of 6,500 feet.

The claims are mostly covered with sage brush and scattered pine trees. The climate of the area is arid, with warm to cool summers and moderate winters, with infrequent periods of extreme cold.

HISTORY, PRODUCTION, AND OWNERSHIP

The Boomer, Hot Rock, and Pole Cat claim groups were located by Edward Wales and George Wales during the spring of 1954, and were recorded at the Montrose County Recorder's office during May, June and early July, 1954. On July 17, 1954, the locators gave a quit claim mining deed to George W. Barnes and Ralph O. Brown of Denver, Colorado. On December 10, 1954, Barnes and Brown gave a quit claim mining deed to British-Western America Uranium Corporation, and an inspection of the records in Montrose, Colorado, on April 8, 1955, showed the entire group of claims as recorded by British-Western America Uranium Corporation under date of December 9, 1954. The discrepancy in dates of the quit claim mining deed and the recording by British-Western America Uranium Corporation is probably due to the fact that George W. Barnes is a Vice-President and Director of the corporation.

There has not been any production from the claims.

DESCRIPTION OF THE DEPOSITS

The formation exposed on the Boomer, Hot Rock, and Pole Cat group of claims is the Salt Wash member of the Jurassic Morrison formation. The upper sandstone beds of the Salt Wash member are the ones that contain uranium ore in the area, but due to erosion, these are only

exposed in parts of 3 claims in the northwestern part of the group.

The only work done on the claims are three 4-foot discovery pits at the northern center of the Pole Cat No. 1 claim. These showed less than 1 foot of manganiferous silt stone. Five samples taken by A. J. Matson, Mining Engineer, Grand Junction, Colorado, from the three pits assayed from 0.07 to 0.34 percent U_3O_8, but the thickness was given for only one sample. This sample was 6 inches thick and the analysis was 0.12 percent U_3O_8. A few small pieces on the dumps were of ore grade, but a radiometric check of the manganiferous silt stone bed at its outcrops showed anomolies only slightly above background.

This silt stone bed is unimportant for ore, as it is about 20 feet below the ore bearing sandstone.

The nearest uranium production is from 3 relatively small deposits in the Brushy Basin member of the Morrison formation, several miles distant, and ranging in production from a few tens to hundreds of tons.

MINABLE RESERVES

NONE

PRESENT STATUS

Exploration and Development

The only work of this nature was 3 small discovery pits on the Pole Cat No. 1 claim, and short shallow bulldozer cuts on a few of the northeast claims. Although location posts have been placed at the corners of all claims, they have apparently not been surveyed, as no brush or timber cutting was found.

Mining and Milling Equipment and Other Facilities

There are no buildings, equipment, or other facilities on the property.

PROJECT PROPOSALS WITH COSTS

The applicants proposed a drilling program in two stages of 2,500 feet each at a total estimated cost of $20,718.00, Government participation at 75 percent or $15,538.50. Figure 2 shows the claims and the proposed locations of 40 holes spaced at 200-foot intervals in Stage I.

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

CONCLUSIONS

On the Boomer, Hot Rock and Pole Cat claim group of the British-Western America Uranium Corporation there is only a thin erosional remnant of the ore bearing sandstone of the Salt Wash member of the Morrison formation. Only traces of uranium mineralization were found in a thin bed of manganiferous silt stone lying beneath the ore bearing sandstone. The chances of finding ore grade uranium under these conditions are unfavorable.

RECOMMENDATIONS

It is recommended that DMEA application No. 3709 be denied without prejudice because the uranium mineralization in the claim group area was only in trace quantity and the only normally ore bearing sandstone beds in the Salt Wash member of the claim group is small in area and is considered unfavorable for uranium mineralization.

/mh

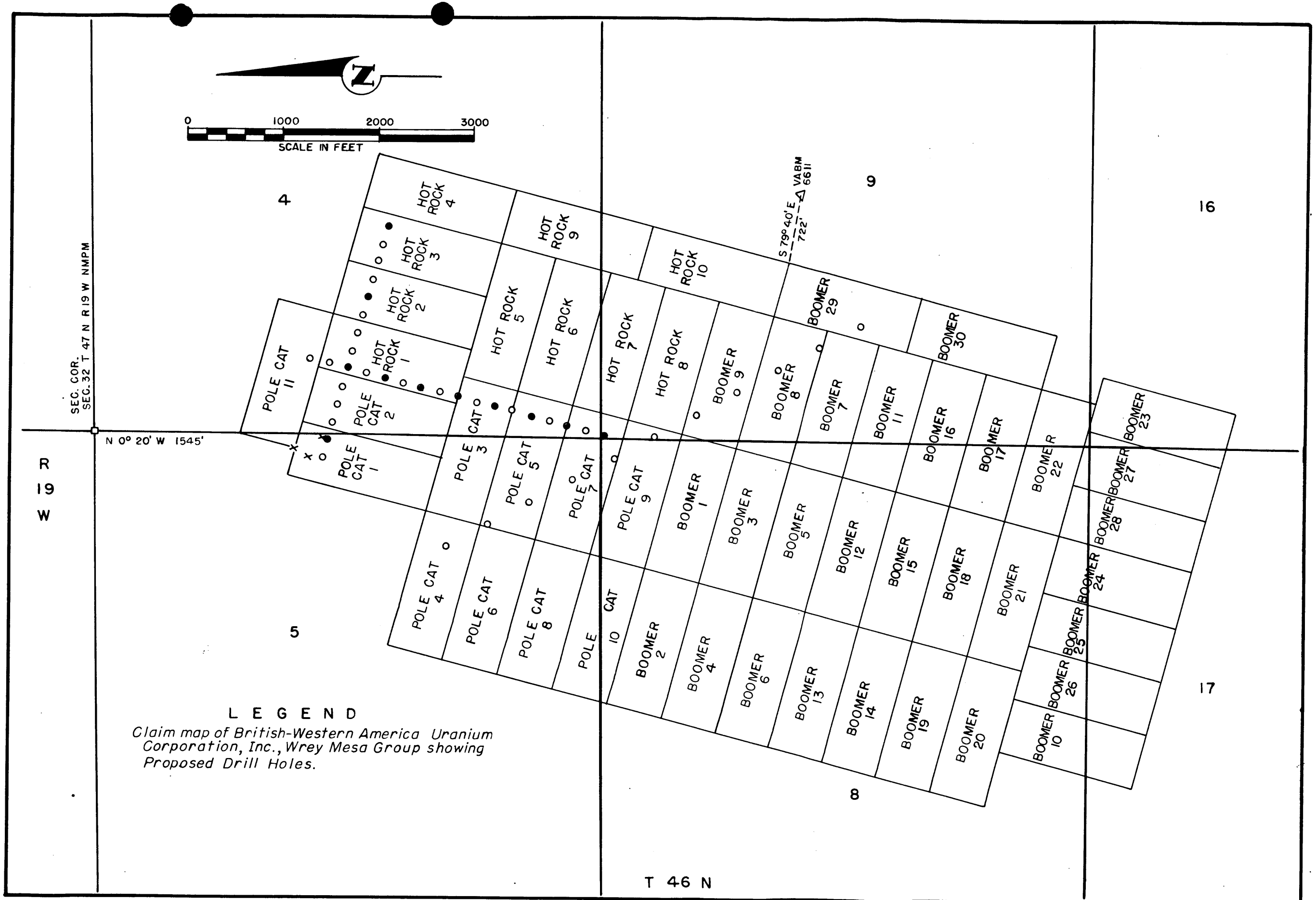


FIGURE 2 - SKETCH MAP OF BRITISH-WESTERN AMERICA URANIUM CORPORATION, INC., CLAIMS AND PROPOSED EXPLORATION, WREY MESA, MONTROSE COUNTY, COLO. DMEA 3709

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

RECEIVED
JUN 1 7 1955

IN REPLY REFER TO:
DMEA
Date Rec'd.
MAY 24 1955
BUREAU OF MINES
Denver, Colorado

May 23, 1955

TRANSMITTED
JUN 14 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3709 (Uranium), British-Western America Uranium Corporation, Pole Cat, Boomer, and Hot Rock groups of claims, Montrose County, Colorado

Enclosed are 10 copies of a geologic report by J. L. Gualtieri, U. S. Geological Survey, covering his examination of the subject property.

Because of faulting and erosion, the "ore-bearing" sandstone has been removed from all but the north-central part of the claim group. Gualtieri concludes that the "ore-bearing" sandstone where exposed is lithologically unfavorable for uranium deposits, and he recommends denial of the application for exploration assistance.

I concur with the recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

Reviewed by
DMEA Operations Office
6-20-55
(Date)

MINERAL DEPOSITS
DMEA
RECEIVED
MAY 23 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

RECEIVED
JUN 17 1955

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O. BOX 360
GRAND JUNCTION, COLORADO

May 10, 1955

Memorandum

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

From: W. P. Williams

Subject: 3709, British-Western America Uranium Corporation, Pole Cat, Boomer, and Hot Rock groups of claims, Montrose County, Colo.

Transmitted herewith are 11 copies of a geologic report by J. L. Gualtieri, covering a field examination of the above-referenced property.

In the vicinity of the Pole Cat, Boomer, and Hot Rock claims uranium mineralization is normally found in the uppermost sandstone bed of the Salt Wash member. As a result of faulting and erosion only a very small area of the "ore-bearing" sandstone is present. Mineralized material on the claims is found 20 feet below the base of the ore-bearing sandstone. Gualtieri concludes that the chances are poor of finding a significant uranium deposit on the subject property. He recommends that the application for DMEA assistance be denied and I concur with his recommendation.

This application was brought to the attention of the Exploration Division, U. S. Atomic Energy Commission, Grand Junction Operations Office. The Commission had no specific information concerning the property.

W P Williams

W. P. Williams
Geologist

WPW/mlr
Enclosures

Reviewed by
DMEA MINERAL CLAIMS
6-20-55

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

RECEIVED
JUN 17 1955

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

DMEA 3709, British-Western America Uranium Corporation, Pole Cat, Boomer, and Hot Rock groups of claims, Montrose County, Colo.

Uranium

Geologic Report

by

J. L. Gualtieri
U. S. Geological Survey

May 6, 1955

6-20-55

DMEA 3709

INTRODUCTION AND SUMMARY

The Pole Cat, Boomer, and Hot Rock claim group composed of the Pole Cat Nos. 1-11, the Boomer Nos. 1-30, and Hot Rock Nos. 1-10 were visited on April 7, 1955, by a DMEA examining team composed of D. McMillan of the U. S. Bureau of Mines and W. D. Carter, J. C. Warman, W. R. Barton, and J. L. Gualtieri of the U. S. Geological Survey.

Access to the Pole Cat, Boomer, and Hot Rock groups of claims is reached by traveling about 14 miles east of LaSal, Utah, over Utah Highway 46 and about 15 miles south over unimproved access roads. The claims are located in the Paradox Mining District in Secs. 4, 5, 8, 9, 16, and 17, T. 47 N., R. 19 W., N.M.P.M., Montrose County, Colo. (fig. 1). The claims are accessible when roads are dry or frozen, but travel is difficult during the spring thaw.

The Pole Cat, Boomer, and Hot Rock groups of claims consist of 51 unpatented claims originally staked by Edward and George E. Wales of Mesa County, Colo., in April, May, and July of 1954. On July 17, 1954, the claims were purchased by George W. Barnes and Ralph O. Brown of Denver, Colo. All the claims were then sold to the applicant, British-Western America Uranium Corporation, December 10, 1954.

The Pole Cat, Boomer, and Hot Rock groups of claims are located at the extreme south end of Wray Mesa. The topography is generally of low relief and of the bench and slope type, dropping away to the south and west toward Coyote Wash. There are no surface facilities or underground workings on the claims outside of discovery and prospect pits. Mineral discovery is restricted to the Pole Cat No. 1 claim, with visible mineralization appearing in or on material excavated from two of several shallow holes.

GEOLOGY AND ORE RESERVES

The rocks exposed on the Pole Cat, Boomer, and Hot Rock group of claims are those of the Salt Wash member of the Jurassic Morrison formation. The exposed rocks present almost the entire Salt Wash section, but only in the north central part of the claim group is the uppermost sandstone, a lenticular, light brown to white sandstone, known as the "ore-bearing sandstone" present as erosional remnants. No complete section of the "ore-bearing sandstone" was observed on the claims. The beds dip slightly to the south. A north trending fault with a measured displacement of 125 feet passes through the northeast corner of the claim group. The beds are upthrown to the east of the fault, making it extremely unlikely that the "ore-bearing sandstone" is present in the alluvium covered northeast portion of the group.

The mineralized material found on the Pole Cat No. 1 was found in a thin (less than one foot thick) manganiferous siltstone bed located 20 feet below the base of the "ore-bearing sandstone". The examining team made a radiometric check of the bed at its outcrops and anomalies only slightly above background were detected. The nearest uranium production comes from the Brushy Basin Nos. 1 and 3, the Too High, and the Yip Yip mines (Strategic Minerals Development Corporation). The Brushy Basin Nos. 1 and 3 mines and the Too High mine are situated in the Brushy Basin member of the Jurassic Morrison formation. The Yip Yip mine is located in the uppermost sandstone unit of the Salt Wash member of the Jurassic Morrison formation. All are relatively small deposits ranging from a few tons to a few hundred tons.

Drilling in this general area of Wray Mesa has been restricted to the immediate vicinity of the mines and promising prospects and no wide-spaced exploration drilling has been undertaken by the Government or private enterprise. Therefore, only local trends of mineralization or environments favorable to mineralization have been recognized. Similarly, inspection of the "ore-bearing sandstone" rim within the claim groups area revealed nothing promising.

CONCLUSIONS AND RECOMMENDATIONS

Inspection by the examining team found that the ore-bearing sandstone outcrops as thin erosional remnants in the north end of the claim group. Only a trace of mineralization was observed in a very thin manganiferous siltstone lying beneath the "ore-bearing sandstone". It is extremely doubtful that uranium of ore-grade and quantity would be found in such an unfavorable environment. It is recommended that DMEA application No.

3709 be denied for the following reasons: (1) the mineralization on the property was not of ore grade and in only trace quantity; (2) the presence of a fault in the claim group area eliminates the presence of "ore-bearing sandstone" in the east central and northeast areas of the claim group; and (3) the only present normally "ore-bearing sandstone" is in the north central part of the claim group and it is deemed unfavorable for uranium deposits.

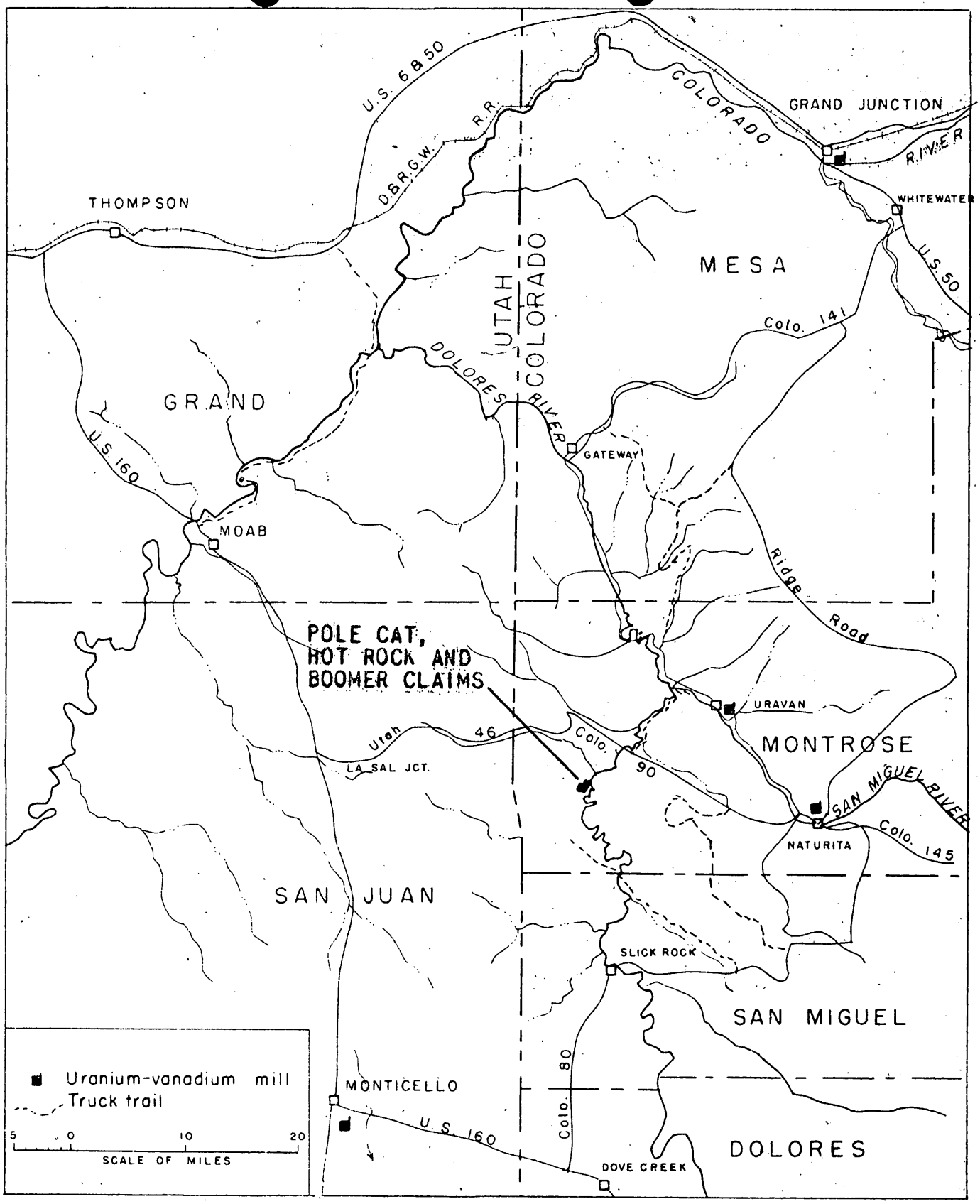
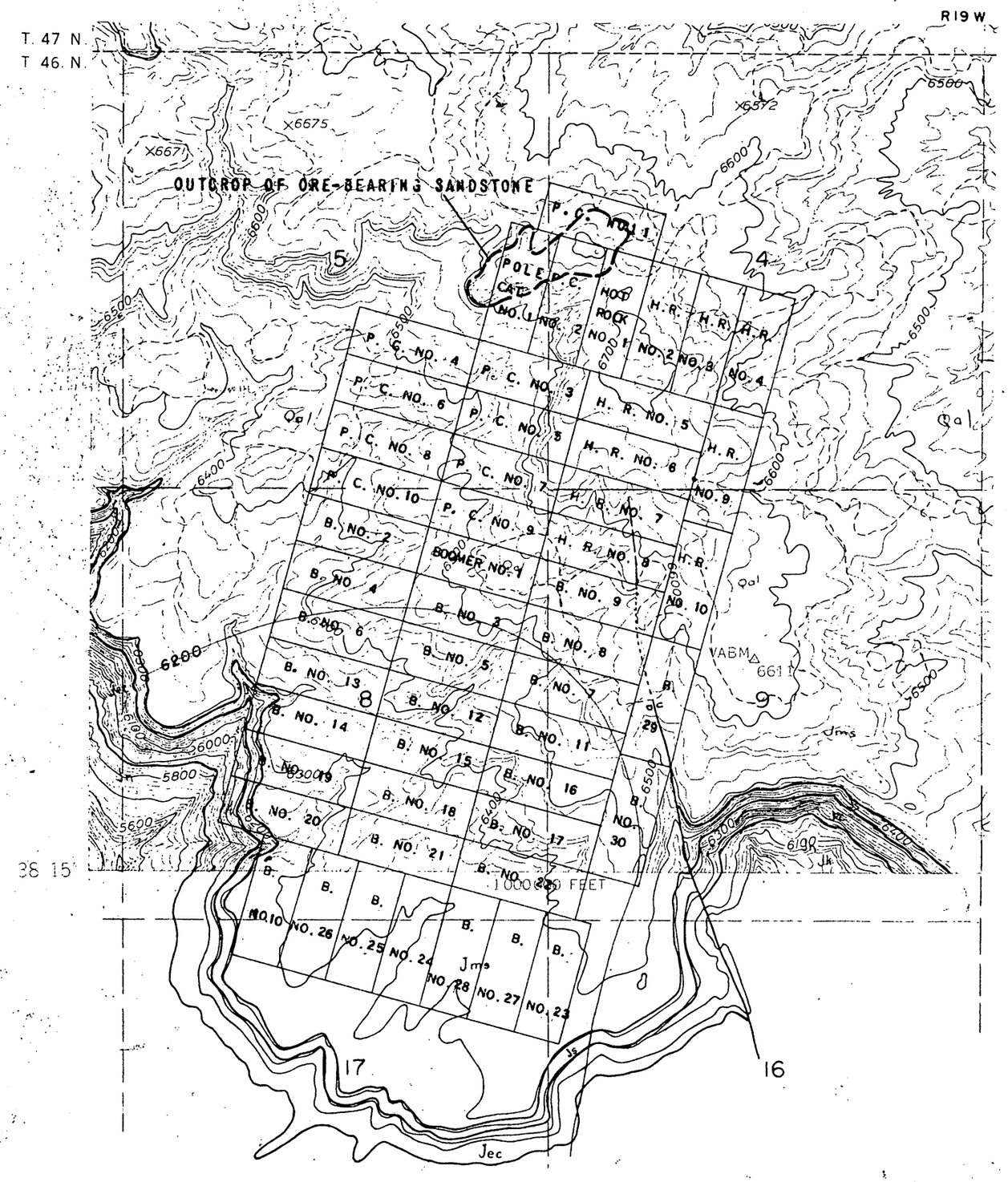


Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF POLE CAT, HOT ROCK AND BOOMER CLAIMS, BRITISH-WESTERN AMERICAN URANIUM CORPORATION, MONTROSE COUNTY, COLORADO



EXPLANATION

Qal	QUATERNARY ALLUVIUM
Jms	SALT WASH MEMBER, JURASSIC MORRISON FORMATION
Js	JURASSIC SUMMERVILLE FORMATION
Jec	JURASSIC CARMEL - ENTRADA FORMATION
Jn	JURASSIC NAVAJO FORMATION
Jk	JURASSIC KAYENTA FORMATION

GEOLOGIC CONTACT (DASHED WHERE INFERRED)

U/D FAULT, U, UPTHROWN SIDE, D, DOWNTHROWN SIDE. DASHED WHERE APPROXIMATELY LOCATED

6200 STRUCTURE CONTOUR ON TOP OF ENTRADA FORMATION

N. 15°

Note: BASE FROM U. S. G. S. QUADRANGLE MAPS PARADOX AND ANDERSON MESA

2000 0 4000 FEET

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Figure 2. GEOLOGIC MAP SHOWING POLECAT, HOT ROCK, AND BOOMER CLAIMS, BRITISH - WESTERN AMERICA URANIUM CORPORATION, MONTROSE COUNTY, COLORADO

Surname 700

Murphy
Ellis
Kiilsgaard
Hodges
Selfridge
Johnson

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

MAR 21 1955

Mr. George C. Heikes, Vice President
British-Western America Uranium Corp.
C. A. Johnson Building
509 Seventeenth Street
Denver, Colorado

Re: Docket No. DMEA-3709 (Uranium)
Wray Mesa Group
Montrose County, Colorado

Dear Mr. Heikes:

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator (by EST)

FMMurphy:am
3-17-55
cc to: Admr. Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

R.C.S.

Surname 700
Murphy
Ellis
Kiilsgaard
Selfridge
Johnson

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

MAR 21 1955

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

Re: Docket No. DMEA-3709 (Uranium)
British-Western America Uranium
Corporation
Wray Mesa Group
Montrose County, Colorado

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for investigation, a field examination, and recommendations. A copy of this application was forwarded to your office on March 4, 1955.

Enclosed are copies of memoranda, both dated March 14, 1955, from J. E. Crawford and R. D. Trace, members of the Uranium Commodity Committee. Only one copy of the map mentioned by Mr. Trace in his memorandum is being forwarded.

The Applicant should be advised that any royalty payments due to other persons on the subject property must be subordinated to the Government's interest. We will require 6 executed copies of each "Subordination Agreement" (Form MF-201) in the event a contract is recommended.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JB)

Enclosures

FMMurphy:am
3-17-55

APPROVED:

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

Thor H. Kiilsgaard
Member, Geological Survey (JB)

cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy

A.C.

3/15/55 gla

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

RECEIVED

March 14, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3709, British-Western America Uranium Corp., C. A. Johnson Bldg., Denver, Colorado

I have reviewed the application included in the subject docket and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

We recommend that the attached application be referred to the Field Team for investigation and report, and that the Field Team be requested to discuss the application with Ernest R. Gordon, Atomic Energy Commission, Grand Junction, Colorado.

J. E. Crawford

J. E. Crawford

Attachment

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford (2)

3/15/55 gla

IN REPLY REFER TO:

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

RECEIVED
MAR 15 1955

March 14, 1955

Re: DMEA-3709
British-Western
American Uran. Corp.
Wray Mesa Group
Montrose County, Colo.
$20,718 - Uranium

Memorandum

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

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

Subject: Review of application

Part of the applicant's property is underlain by the topmost massive sandstone lense (main ore-bearing sandstone) of the Salt Wash member of the Morrison formation. In this area, this lense is the most favorable for ore deposits. In the NW part of the claim group, 3 small pits in the main ore-bearing sandstone contain material of ore grade, although there is little or no data of value on the thickness. The applicant proposes to drill about 5,000 feet of holes, mostly to explore the main ore-bearing sandstone.

In order to discuss the area, I enclose one copy of an overlay map showing the geology. The overlay can be placed over the applicant's Enclosure E. The geology is taken from a soon to be published map of the Paradox Quadrangle, by C. F. Withington of the Survey.

Note: I have sketched this geology on Enclosure E. Dawson Lake. Murphy

about Approx 25

The map shows that nearly all the property lies on outcrops of the Salt Wash member (or scattered patches of alluvium that are not shown). A north trending fault is present in the east central part of the claim group but this fault seems to die out or the displacement is less than 20 feet on the Hotrock 7 claim, approximately near the southernmost extent of the main ore-bearing sandstone.

In addition to the geology as shown on the Paradox Quadrangle, Withington and I have added to the overlay map the outcrop of the base of the main ore-bearing sandstone. Commonly, this can be done where the topographic map is good. This contact trends eastward across the Polecat 1 and part of Polecat 2, then trends southward on the Polecat 2, Polecat 3, Polecat 5 and Polecat 7. Near the southeast corner of Polecat 7, the contact turns eastward and the sandstone abruptly thins, judging from the lack of closely spaced contours. Using the same factor, the upper rim is either absent or too thin to be very favorable to the east and north of this area.

The net result of this interpretation is that the possibly favorable lense of the main ore-bearing sandstone is small, with an areal extent on the applicant's property equivalent to as much as 2 or possibly 3 standard size lode claims. If any drilling is approved, this interpretation, at least, would limit the area to be explored.

As ore grade mineralization is known on the Polecat 1, I recommend that the application be referred to the Field Team. Because of the small and scattered nature of favorable sandstone lenses in this general area, I am not impressed with the applicant's property. I trust that D. Carter, who I am guessing will do the Survey part of the field examination, will comment upon my topographic interpretation of the areal extent of the sandstone, and also will take a close look at the rim exposures for favorable criteria or mineralization.

Bob Trace

R. D. Trace

Attachment

IN REPLY REFER TO:

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

March 14, 1955

Re: DMEA-3709
British-Western
American Uran. Corp.
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Montrose County, Colo.
$20,718 - Uranium

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R. D. Trace

Attachment

RDTrace:hlm
0-3/14/55

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

March 4, 1955
Subject: DMEA 3709
Re: Exploration Assistance
Wray Mesa Group

British-Western America Uranium Corp.
C. A. Johnson Building
509 Seventeenth Street
Denver, Colorado

Gentlemen:

The receipt of your application dated February 25, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3709 and referred to the Rare and Miscellaneous Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

BRITISH-WESTERN AMERICA URANIUM CORPORATION

C. A. JOHNSON BUILDING
509 SEVENTEENTH STREET
DENVER, COLORADO

TELEPHONE: CHERRY 4-1811
CABLES: GEBAR, DENVER

LEADENHALL BUILDINGS
1, LEADENHALL STREET
LONDON, E. C. 3., ENGLAND

TELEPHONES: MANSION HOUSE 0795-6 2393
CABLES: HUNTREX, LONDON

MAR 3 - 1955

25 FEBRUARY 1955

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

GENTLEMEN:

PLEASE FIND ENCLOSED FOR YOUR CONSIDERATION AND APPROPRIATE ACTION, ORIGINAL AND THREE COPIES, WITH ENCLOSURES, OF AN APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED.

YOURS VERY TRULY,

BRITISH WESTERN AMERICA URANIUM CORPORATION

BY George C. Heikes

GEORGE C. HEIKES, VICE PRESIDENT

3 COPIES

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

RECEIVED BY THE Defense Minerals Adm. RECEIVED MAR 3 - 1955

Not to be filled in by applicant

Docket No. 3709
Metal or Mineral Uranium, Vanadium
Date Received 3-3-55
Estimated Cost $20,718
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: BRITISH-WESTERN AMERICA URANIUM CORPORATION (A COLORADO CORPORATION) C. A. JOHNSON BUILDING, DENVER, COLO. THE OFFICERS OF THE ABOVE CORPORATION ARE LISTED IN THE ATTACHED BROCHURE, ENCLOSURE A.

(*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 51 UNPATENTED MINING CLAIMS LOCATED IN SECTIONS 4, 5, 8, 9, 16 AND 17 OF TOWNSHIP 46 NORTH, RANGE 19 WEST, MONTROSE COUNTY, COLORADO, AS EVIDENCED BY QUIT CLAIM MINING DEEDS DATED 17 JULY 1954 AND 10 DEC. 1954, COPIES OF WHICH ACCOMPANY THIS APPLICATION, ENCLOSURE B.

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

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

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

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

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

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

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

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

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

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

16—66551-1

PLEASE SEE ATTACHED TYPEWRITTEN PAGES FOR INFORMATION NOT FURNISHED ON THIS SHEET.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore URANIUM AND VANADIUM OXIDES (CARNOTITE TYPE ORES)

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

(*c*) The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated February 25, 1955.

BRITISH-WESTERN AMERICA URANIUM CORPORATION
(Applicant)

By Angus C. Hikes V.P.

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

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
MAR 3 - 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. 3709
Metal or Mineral Uranium, Vanadium
Date Received 3-3-55
Estimated Cost $20,718
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C. A. JOHNSON BUILDING, DENVER, COLO.
THE OFFICERS OF THE ABOVE CORPORATION ARE LISTED IN THE ATTACHED BROCHURE, ENCLOSURE A.

(*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 51 UNPATENTED MINING CLAIMS LOCATED IN SECTIONS 4, 5, 8, 9, 16 AND 17 OF TOWNSHIP 46 NORTH, RANGE 19 WEST, MONTROSE COUNTY, COLORADO, AS EVIDENCED BY QUIT CLAIM MINING DEED DATED 17 JULY 1954, A COPY OF WHICH ACCOMPANIES THIS APPLICATION, ENCLOSURE B.

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

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

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

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

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

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

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

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

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore URANIUM AND VANADIUM OXIDES (CARNOTITE TYPE ORES)

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

(*c*) The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated February 25, 1955

BRITISH WESTERN AMERICA URANIUM CORP.
(Applicant)

By Gerald Heiden V.P.

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

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3. (E) THE APPLICANT HAS PURCHASED THE GROUP OF 51 UNPATENTED CLAIMS FROM EDWARD WALES AND GEORGE E. WALES OF MESA COUNTY, COLORADO, AND THE CLAIMS ARE SUBJECT TO A ROYALTY OF 10% PAYABLE TO GEORGE E. WALES AND EDWARD WALES AND OF 2½% PAYABLE TO JACK SMITH, ALSO OF MESA COUNTY, COLORADO.

4. (A) NO MINING OPERATIONS HAVE BEEN CONDUCTED TO DATE ON THE PROPERTY. EXPLORATION WORK IS LIMITED TO THREE SHALLOW PITS ON THE POLE CAT NO. 1 CLAIMS. THE PROPERTY HAS NOT BEEN DRILLED.

(B) THERE IS NO RECORD OF PAST PRODUCTION FROM THE CLAIMS, NOR ARE THERE AS YET ANY ORE RESERVES.

(C) THE CLAIMS ARE IN THE MORRISON FORMATION OF THE UPPER JURASSIC AGE ON THE MESA SURMOUNTING THE NORTH FLANK OF COYOTE WASH. THE MINERALIZATION WHICH HAS BEEN FOUND OCCURS IN WHAT IS PROBABLY THE THIRD OR FOURTH LENS FROM THE BOTTOM OF THE SALT WASH OR LOWER MEMBER OF THE MORRISON FORMATION. THIS PUTS THE MINERALIZATION IN THE STRATIGRAPHIC ZONE NEAR THE TOP OF THE SALT WASH. THE SANDSTONE LENSES IN THE UPPER PART OF THE SALT WASH ARE GENERALLY CONSIDERED IN THIS PART OF THE PLATEAU TO BE MORE FAVORABLE FOR HIGH GRADE CARNOTITE ORE DEPOSITION THAN THE LENSES LOWER DOWN, ALTHOUGH IN PLACES ORE HAS BEEN FOUND NEAR THE BOTTOM OF THE FORMATION.

THE TYPICAL CARNOTITE ORE BODY OF THE REGION IS A GENERALLY FLAT LYING, TABULAR TO PODLIKE MASS LYING ON THE FLANKS OF A SANDSTONE LENS. IN PLACES, THE ORE WILL BE NEARLY SOLID MINERAL WHILE IN OTHERS THE INTERSTICES OF THE SANDSTONE AND CREVICES ONLY WILL BE MINERALIZED. DRILLING IS CONSIDERED ONE OF THE BEST MEANS OF EXPLORATION, FOR EVEN BLANK HOLES, BY OUTLINING THE LENSES, HELP TO CONFINE EXPLORATION WORK TO THE MOST FAVORABLE LOCALITIES. OREBODIES RANGE FROM A FEW TONS TO SEVERAL THOUSAND TONS IN SIZE. IN THE REGION OF THE YELLOW BIRD MINE, ABOUT 4 MILES TO THE NORTH, OREBODIES ARE SAID TO HAVE BEEN FOUND OF 8,000 TO 20,000 TONS.

THE PRESENT APPLICATION PROPOSES TO EXPLORE BY DRILLING THE POLE CAT, HOT ROCK AND BOOMER CLAIMS. THE REASON FOR THE PROJECT IS THE

BELIEF THAT THE CLAIMS OCCUPY A FAVORABLE AREA FOR ORE OCCURENCE BASED ON (1) ORE WHICH HAS ACTUALLY BEEN UNCOVERED BY DISCOVERY PITS ON THE PROPERTY, (2) PROXIMITY TO PRODUCING MINES SUCH AS YELLOW BIRD 4 MILES TO THE NORTH AND THE RAVEN AND NEARBY MINES ABOUT 2 MILES TO THE SOUTH. DRILLING WOULD BE SHALLOW, IN THE NEIGHBORHOOD OF 60 FEET, AND IT IS BELIEVED THAT THE 5000 FEET OF EXPLORATION DRILLING PROPOSED WOULD HAVE A FAIR CHANCE OF FINDING AN OREBODY. A COPY OF A REPORT BY FRANK H. MACPHERSON, CONSULTING MINING ENGINEER AND WHO HAS EXAMINED THE PROPERTY, IS ATTACHED AS ENCLOSURE C. ENCLOSURE D SHOWS THE GENERAL GEOLOGY OF THE AREA INVOLVED WHILE ENCLOSURE E SHOWS THE TOPOGRAPHY WITH THE CLAIM GROUP SUPERIMPOSED.

(D) THE CLAIMS ARE LOCATED ON WRAY MESA AND ARE REACHED AS FOLLOWS: (1) TAKE THE PAVED HIGHWAY SOUTH OF MOAB, UTAH, FOR 24 MILES TO THE JUNCTION OF STATE HIGHWAY NO. 46. (A) TURN EAST ON HIGHWAY 46, AN IMPROVED GRAVEL ROAD, FOR 1.9 MILES. (3) TAKE DIRT ROAD LEADING SOUTH UP A HILL FOR 7 MILES. HERE THE ROAD BRANCHES. (4) TAKE SOUTH BRANCH, FOLLOWING MAIN TRAVELLED DIRT ROAD DOWN FROM THE UPPER MESA FOR 7 MILES. THE ROAD AT THIS POINT OPENS UP ON TO A SAGEBRUSH FLAT AND THE NW CORNER POST OF THE POLE CAT NO. 11 CLAIM WILL BE READILY VISIBLE.

THE 14 MILES OF DIRT ROAD LEADING TO THE PROPERTY FROM HIGHWAY 46 ARE PASSABLE TO ALL VEHICLES IN THE SUMMER AND AUTUMN. IN THE WINTER PASSAGE IS DIFFICULT EXCEPT FOR 4-WHEEL DRIVE MACHINES AND CONSIDERABLE GRADING AND BALLASTING WOULD HAVE TO BE DONE TO MAKE THIS 14 MILE ROAD STRETCH "ALL WEATHER."

THE PROPERTY ITSELF HAS NO ROADS UPON IT EXCEPT FOR A FEW HUNDRED YARDS AT THE NORTH END. ACCESS ROADS FOR DRILLING WOULD HAVE TO BE CONSTRUCTED, BUT THE CHARACTER OF THE TERRAIN IS SUCH THAT THIS WOULD PRESENT NO DIFFICULTY. IT IS ESTIMATED THAT A HEAVY BULLDOZER COULD MAKE ABOUT ONE-HALF MILE OF DRILL ACCESS ROAD PER DAY.

THE NEAREST SUPPLY POINT FOR MATERIALS AND LABOR IS MOAB, UTAH. THE ORE WOULD EITHER BE SOLD THERE OR AT MONTICELLO, DEPENDING ON PURCHASE TERMS. MOAB IS ABOUT EIGHT MILES CLOSER TO THE PROPERTY THAN MONTICELLO.

(E) DRILLING WOULD BE BY THE DRY, ROTARY, AIR BLAST METHOD FOR WHICH LITTLE WATER IS NEEDED. DOMESTIC WATER COULD BE HAULED FROM A SMALL SPRING SAID TO LIE AT A DISTANCE OF ABOUT ½ MILE. MANPOWER, MATERIALS, SUPPLIES AND EQUIPMENT ARE AVAILABLE AT NEARBY TOWNS SUCH AS MOAB, UTAH AND MONTICELLO.

5. (B) THE EXPLORATION PROJECT:

THE PROJECT CONSISTS OF DRILLING A SERIES OF HOLES AS INDICATED ON THE ACCOMPANYING MAP (ENCLOSURE F).

IT IS BELIEVED THAT THE PURPOSE OF EXPLORING THE UPPER OR MORE FAVORABLE SANDSTONE OF THE SALT WASH IS BEST SERVED BY TWO INTERSECTING LINES OF HOLES AT 200 FOOT SPACING. SLIGHT DEVIATIONS FROM THE DRILL HOLE SITES SHOWN MAY BE NECESSARY ON ACCOUNT OF TOPOGRAPHY BUT THE PATTERN SHOWN IS TO BE FOLLOWED AS NEARLY AS POSSIBLE. THE TWO LINES WILL ACCOUNT FOR ABOUT 2500 FEET, OR HALF OF THE DRILLING PROJECTED.

THE BALANCE OF THE DRILL FOOTAGE IS TO BE USED IN DRILLING HOLES WHOSE LOCATION WILL BE GOVERNED BY THE FINDINGS OF THE WIDE SPACED DRILLING. AN ESTIMATED QUANTITY OF FIVE HOLES IS TO BE DRILLED TO THE BASE OF THE SALT WASH FORMATION OR TO A DEPTH OF ABOUT 200 FEET. ALL HOLES ARE TO BE LOGGED BY A GEOLOGIST WHO WILL BE PRESENT DURING DRILLING.

(D) THE APPLICANT RETAINS AS ITS OFFICER IN CHARGE OF MINING OPERATIONS, MR. GEORGE C. HEIKES, CONSULTING MINING GEOLOGIST. MR. HEIKES HAS A WIDE EXPERIENCE IN MINE OPERATION AND EXPLORATION, INCLUDING MANY YEARS WITH THE UNITED STATES GOVERNMENT, THE ANACONDA COPPER COMPANY, THE KENNECOTT COPPER COMPANY, AND THE NATIONAL LEAD COMPANY. HIS EXPERIENCE IS FURTHER DESCRIBED IN ENCLOSURE A.

MR. E. T. KNIGHT, MINING ENGINEER, WHO WILL SUPERVISE OPERATIONS, HAS OVER FIFTEEN YEARS EXPERIENCE IN THE OPERATION OF VARIOUS TYPES OF LODE AND PLACER MINES. FOR THE LAST SIX YEARS HE HAS BEEN WITH THE FRESNILLO COMPANY IN MEXICO IN THE CAPACITY OF ASSISTANT SUPERINTENDENT AND ACTING SUPERINTENDENT OF ONE OF THE PRINCIPAL UNITS OF THAT COMPANY.

IT IS BELIEVED THAT THE APPLICANT IS WELL ADAPTED TO CARRY OUT THE EXPLORATION PROJECT FROM THE STANDPOINT OF ABILITY.

6. ESTIMATE OF COSTS

(A) INDEPENDENT CONTRACTS

DRILLING

5000 FEET @ $2.00 PER FOOT	$10,000.00

BULLDOZER OPERATION

200 HOURS @ $12.50 PER HOUR	2,500.00

(B) LABOR, SUPERVISION, CONSULTANTS

LABOR

NONE

SUPERVISOR

2 DAYS PER WEEK FOR 12 WEEKS @ $25.00 PER DAY	600.00

CONSULTANTS

SALARY OF RESIDENT GEOLOGIST 3 MONTHS AT $600 PER MONTH	1,800.00	3600.00
DETAILED SURVEYING OF DRILL HOLE SITES AND SURFACE. 5 DAYS AT $200 PER DAY?	1,000.00	
OUTSIDE GEOLOGIC CONSULTANT	200.00	

(C) OPERATING MATERIALS AND SUPPLIES

IN GENERAL, ONLY THOSE MATERIALS AND SUPPLIES WILL BE NEEDED AS WILL BE REQUIRED TO SUPPORT THE ACTIVITIES OF THE RESIDENT GEOLOGIST, AS FOLLOWS:

DOMESTIC WATER

300 GALLONS PER DAY FOR 90 DAYS @ 1¢ PER GAL.	270.00

ASSAYING

100 DETERMINATIONS @ $5.00	500.00	
100 SAMPLE SACKS @ 50¢	50.00	
2000 PAPER BAGS @ $5.00 PER 1000	10.00	1210.00

BUTANE DOMESTIC FUEL

12 WEEKS @ $10.00 PER WEEK	120.00
GASOLINE AND OIL FOR LIGHT PLANT @ $2.00 PER DAY	180.00
GASOLINE FOR JEEP STATION WAGON 2000 MILES - 200 GALS. GAS @ 40¢ PER GAL.	80.00

(D) OPERATING EQUIPMENT

RENT JEEP STATION WAGON -

90 DAYS AT $7.50 PER DAY	675.00	
2000 MILES @ 5¢ PER MILE	100.00	
RENT DOMESTIC LIGHT PLANT FOR 3 MONTHS	150.00	1525.00
RENT TRAILER FOR 3 MONTHS @ $200.00 PER MONTH	600.00	

(E) REHABILITATION AND REPAIRS

NONE

(F) NEW BUILDINGS, IMPROVEMENTS, INSTALLATIONS

NONE

(G) MISCELLANEOUS

NONE

	SUB TOTAL	$18,835.00
(H) CONTINGENCIES		
10%		1,883.00
	TOTAL	$20,718.00

QUIT CLAIM MINING DEED

THIS INDENTURE, Made this 17th day of July in the year of our Lord one thousand nine hundred fifty-four, between EDW. WALES, also known as EDWARD WALES, and GEO. E. WALES of the County of Mesa and State of Colorado, parties of the first part, and

George W. Barnes and Ralph O. Brown

of the County of Denver and State of Colorado, parties of the second part;

WITNESSETH, That the said parties of the first part, for and in consideration of the sum of Ten Dollars and other valuable consideration, to them in hand paid by the said parties of the second part, the receipt whereof is hereby acknowledged, have granted, bargained, sold, remised, released and forever quit-claimed, and by these presents do grant, bargain, sell, remise, release and forever quit-claim, unto the said parties of the second part, their heirs and assigns, the following described property, situate, lying and being in Coyote Wash, Wray Mesa Mining District in the County of Montrose and State of Colorado, to-wit:

POLE CAT MINING CLAIM Nos. 1 to 10, inclusive, the location certificates for which were filed for record in the office of the County Clerk & Recorder, Montrose County, Colorado, on May 3, 1954, being document numbers 291572 to 291580, and 291581, respectively, and

LRW. G.E.W.

POLE CAT MINING CLAIM No. 11, the location certificate for which was filed for record in said office on June 2, 1954, being document number 293172;

BOOMER MINING CLAIM Nos. 1 to 6, inclusive, the location certificates for which were filed for record in said office on May 3, 1954, being document numbers 291589 to 291594, respectively, and

BOOMER MINING CLAIM Nos. 7, and 10 to 30, inclusive, the location certificates for which were filed for record in said office on June 2, 1954, being document numbers 293146 to 293167, respectively;

HOT ROCK MINING CLAIM Nos. 1 to5, inclusive, the location certificates for which were filed for record in said office on May 3, 1954, being document numbers 291584 to 291588, respectively, and

HOT ROCK MINING CLAIM Nos. 6, 7, 9 and 10, the location certificates for which were filed for record in said office on June 2, 1954, being document numbers 293168 to 293171, respectively;

BOOMER MINING CLAIM Nos. 8 and 9, the location certificates for which were filed for record in said office on July 17, 1954, being document numbers 295682 and 295683, respectively and

HOT ROCK MINING CLAIM No. 8, the location certificate for which was filed for record in said office on July 17, 1954, being document number 295684.

All of the foregoing claims being located in Sections 4 and 5, 8 and 9, 16 and 17, Township 46 North, Range 19 West.

The grantors herein reserve to themselves a royalty of ten per cent (10%) payable on the gross proceeds of all ores sold from any of said claims, together with 10% of any bonus or gratuities paid on account of the production of ores therefrom.

TOGETHER with all the dips, spurs and angles, and all the metals, ores, gold and silver-bearing quartz, rock and earth therein, and all the rights, privileges and franchises thereto incident, appendant and appurtenant, or therewith usually had and enjoyed; and all and singular the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining, and the rents, issues and profits thereof; and all the e state, right, title, interest, claim and demand whatsoever, as well in law as in equity, of the said parties of the first part, of, in or to the said premises, and every part and parcel thereof, with the appurtenances.

TO HAVE AND TO HOLD, all and singular, the said premises, together with the appurtenances and privileges thereto incident, unto the said parties of the second part, their heirs and assigns forever.

IN WITNESS WHEREOF, The said parties of the first part have hereunto set their hands and seals the day and year first above written.

Edw Wales (SEAL)
also known as Edward Wales

Geo. E. Wales (SEAL)

STATE OF COLORADO)
) ss
COUNTY OF M E S A)

The foregoing instrument was acknowledged before me this 17th day of July, 1954, by Edw. Wales, also known as Edward Wales, and Geo. E. Wales.

My Commission expires: OCT. 21, 1954.

Witness my hand and official seal.

EUGENE H. WEST NOTARY PUBLIC MESA COUNTY, COLO.

Eugene H. West
Notary Public

QUIT CLAIM MINING DEED

THIS INDENTURE, Made this 10th day of December in the year of our Lord one thousand nine hundred fifty-four, between GEORGE W. BARNES and RALPH O. BROWN of the County of Denver and State of Colorado, parties of the first part, and BRITISH WESTERN AMERICA URANIUM CORPORATION, a Colorado corporation, party of the second part;

WITNESSETH, That the said parties of the first part, for and in consideration of the sum of Ten Dollars and other valuable consideration, to them in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, have granted, bargained, sold, remised, released and forever quit-claimed, and by these presents do grant, bargain, sell, remise, release and forever quit-claim, unto the said party of the second part, its successors and assigns, the following described property, situate, lying and being in Coyote Wash, Wray Mesa Mining District in the County of Montrose and State of Colorado, to-wit:

POLE CAT MINING CLAIM Nos. 1 to 10, inclusive, the location certificates for which were filed for record in the office of the County Clerk & Recorder, Montrose County, Colorado, on May 3, 1954, being document numbers 291572 to 291580, and 291581, respectively, and

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BOOMER MINING CLAIM Nos. 8 and 9, the location certificates for which were filed for record in said office on July 17, 1954, being document numbers 295682 and 295683, respectively and

7

HOT ROCK MINING CLAIM No. 8, the location certificate for which was filed for record in said office on July 17, 1954, being document number 295684.

All of the foregoing claims being located in Sections 4 and 5, 8 and 9, 16 and 17, Township 46 North, Range 19 West.

The grantors herein reserve to themselves a royalty of ten per cent (10%) payable on the gross proceeds of all ores sold from any of said claims, together with 10% of any bonus or gratuities paid on account of the production of ores therefrom.

TOGETHER with all the dips, spurs and angles, and all the metals, ores, gold and silver-bearing quartz, rock and earth therein, and all the rights, privileges and franchises thereto incident, appendant and appurtenant, or therewith usually had and enjoyed; and all and singular the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining, and the rents, issues and profits thereof; and all the estate, right, title, interest, claim and demand whatsoever, as well in law as in equity, of the said parties of the first part, of, in or to the said premises, and every part and parcel thereof, with the appurtenances.

TO HAVE AND TO HOLD, all and singular, the said premises, together with the appurtenances and privileges thereto incident, unto the said party of the second part, its successors and assigns forever.

IN WITNESS WHEREOF, the said parties of the first part have hereunto set their hands and seals the day and year first above written.

George W. Barnes (SEAL)
George W. Barnes

Ralph O. Brown (SEAL)
Ralph O. Brown

STATE OF COLORADO)
) ss
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 10th day of December, 1954, by George W. Barnes and Ralph O. Brown.

My commission expires: July 29, 1957.

Witness my hand and official seal.

Meretta A. Miller
Notary Public.

DMEA
Date Rec'd.

JUN 9 1955

TRANSMITTED
JUN 14 1955

RECEIVED
JUN 17 1955

BUREAU OF MINES
Denver, Colorado

Region III

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
June 6, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: DMEA 3709, British-Western America Uranium Corporation (Boomer, Hot Rock, and Pole Cat claim group) Wray Mesa, La Sal Creek Mining District, Montrose County, Colorado

Enclosed are the original and eleven copies of a "Summary, Conclusions, and Recommendations," by W. D. McMillan, mining engineer, Bureau of Mines, and J. L. Gualteri, geologist, Geological Survey, and the original and eleven copies of an engineering report by W. D. McMillan, covering DMEA 3709.

The British-Western America Uranium Corporation applied for exploration assistance in the amount of $20,718.00 to explore the Boomer, Hot Rock, and Pole Cat group of claims by 5,000 feet of wagon drilling. The field examination was made on April 7, 1955, by an examining team from the Bureau of Mines and Geological Survey. The examining team concluded that there was little possibility of discovering a significant amount of uranium as a result of the proposed exploration. It is recommended that the application by denied.

W H King
W. H. King, for
John F. Shaw

cc 11
DMEA 3709
DMEA Chron.

JFS/pah

RECEIVED
JUN 17 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3709, Boomer, Hot Rock and Pole Cat Claim Group
British-Western America Uranium Corporation
Wray Mesa, La Sal Creek Mining District
Montrose County, Colorado

Uranium

W. D. McMillan, Mining Engineer
Bureau of Mines

J. L. Gualteri, Geologist
Geological Survey

June 1, 1955

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By W. D. McMillan
Mining Engineer
Bureau of Mines

J. L. Gualteri
Geologist
Geological Survey

TRANSMITTED
JUN 14 1955

RECEIVED
JUN 17 1955

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By W. D. McMillan and J. L. Gualteri

An application was made to the Defense Minerals Exploration Administration for Government assistance in exploration of a group of 51 claims in Montrose County, Colorado, which were located in May, June, and July, 1954 and transferred to the applicant in December, 1954. The applicant proposed wagon drilling at an estimated cost of $20,718.00 for 5,000 feet of drilling in 80 holes averaging 66 feet in depth. Government participation at 75 percent would be $15,538.50.

A field examination was made on April 7, 1955.

The claims are on the southwestern part of Wray Mesa overlooking the valley of the Dolores River about 2 miles east of the claims. From Moab they are reached by driving south 24 miles on U. S. Highway 160 to Utah State Highway 46, thence east 19 miles to a truck road, thence south a distance of about 14 miles.

Eroded parts of the Salt Wash member of the Jurassic Morrison formation outcrop over most of the property. In the La Sal Creek Mining District, most of the uranium ore is in from 2 to 3 sandstone beds in the upper part of the Salt Wash member. A shallow thickness of the ore-bearing sandstones occurs in parts of 3 claims in the northwestern area.

Only traces of uranium mineralization were found in a thin bed of manganiferous silt stone beneath the ore bearing sandstone. Radiometric tests in the sandstone were negative.

The examining team recommends denial of DMEA application 3709.

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

RECEIVED
JUN 17 1955

Engineering Report

By W. D. McMillan
Mining Engineer
Bureau of Mines

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WREY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

RECEIVED
JUN 17 1955

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ILLUSTRATIONS

Figure — Follows Page

1. Location map, British-Western America Uranium Corporation, Inc., properties, Wrey Mesa, Montrose County, Colo. DMEA 3709 2

2. Sketch map of British-Western America Uranium Corporation, Inc. claims and proposed exploration, Wrey Mesa, Montrose County, Colo. DMEA 3709 5

DMEA 3709
BOOMER, HOT ROCK AND POLE CAT CLAIM GROUP
BRITISH-WESTERN AMERICA URANIUM CORPORATION
WRAY MESA, LA SAL CREEK MINING DISTRICT
MONTROSE COUNTY, COLORADO

ENGINEERING REPORT

By W. D. McMillan

INTRODUCTION

The British-Western America Uranium Corporation applied for Defense Minerals Exploration Administration assistance for exploration by rotary drilling of their 51 claims on Wray Mesa, Montrose County, Colorado.

Their proposal was for a first stage of 40 holes spaced at 200-foot centers, with a total depth of 2,500 feet; if favorable results were obtained, this would be followed by an additional 40 holes, and bring the total drilling to 5,000 feet at an estimated total cost of $20,718.00, Government participation at 75 percent or $15,538.50.

An examination by a DMEA Region III examining team consisting of W. D. McMillan of the Bureau of Mines and Douglas Carter, Jim Worman, and J. L. Gualteri of the Geological Survey was made on April 7, 1955. An attempt to have a representative of the applicant present was unsuccessful.

This examination and further investigation by J. L. Gualteri resulted in the examining team recommending denial of the application for the geological reasons given in this report.

ACKNOWLEDGMENTS

Data pertaining to the Wray Mesa Group were obtained from personal observation and from experience and mapping of the Geological Survey members of the team.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Boomer-Hot Rock-Pole Cat Claim Group consists of 51 claims located in secs. 4, 5, 8, 9, 16 and 17, T. 46 N., R. 19 W., N.M.P.M., in the southwestern corner of the U. S. Geological Paradox Quadrangle, Montrose County, Colorado. The claims are the Boomer Nos. 1 to 30, Hot Rock Nos. 1 to 10, and Pole Cat Nos. 1 to 11 with an area of about 1,000 acres. They are on a mesa 2.5 miles west of the Dolores River, and 4 miles south of La Sal Creek and are reached most easily from Moab, Utah, by driving south 24 miles on U. S. Highway 160 to the junction with Utah State Highway 46 (as shown on fig. 1), thence east on this highway for 19 miles, and over a truck trail leading south up a hill for 7 miles. Here the road branches, and the south branch should be taken from the Upper Mesa for 7 miles, where there is a large sage brush flat. A rough road 1 mile in length leads to the northwest corner of the Pole Cat No. 11 claim. A discovery post and three shallow pits are at the north center of the Pole Cat No. 1 claim. During the summer and autumn the 15 miles to the claims is passable, but during the winter and spring they can be reached only by 4-wheel drive vehicles.

La Sal, 26 miles, and Moab, 58 miles distant from the claims, are the nearest sources of supply, and at Moab there is also an Atomic Energy Commission purchasing depot.

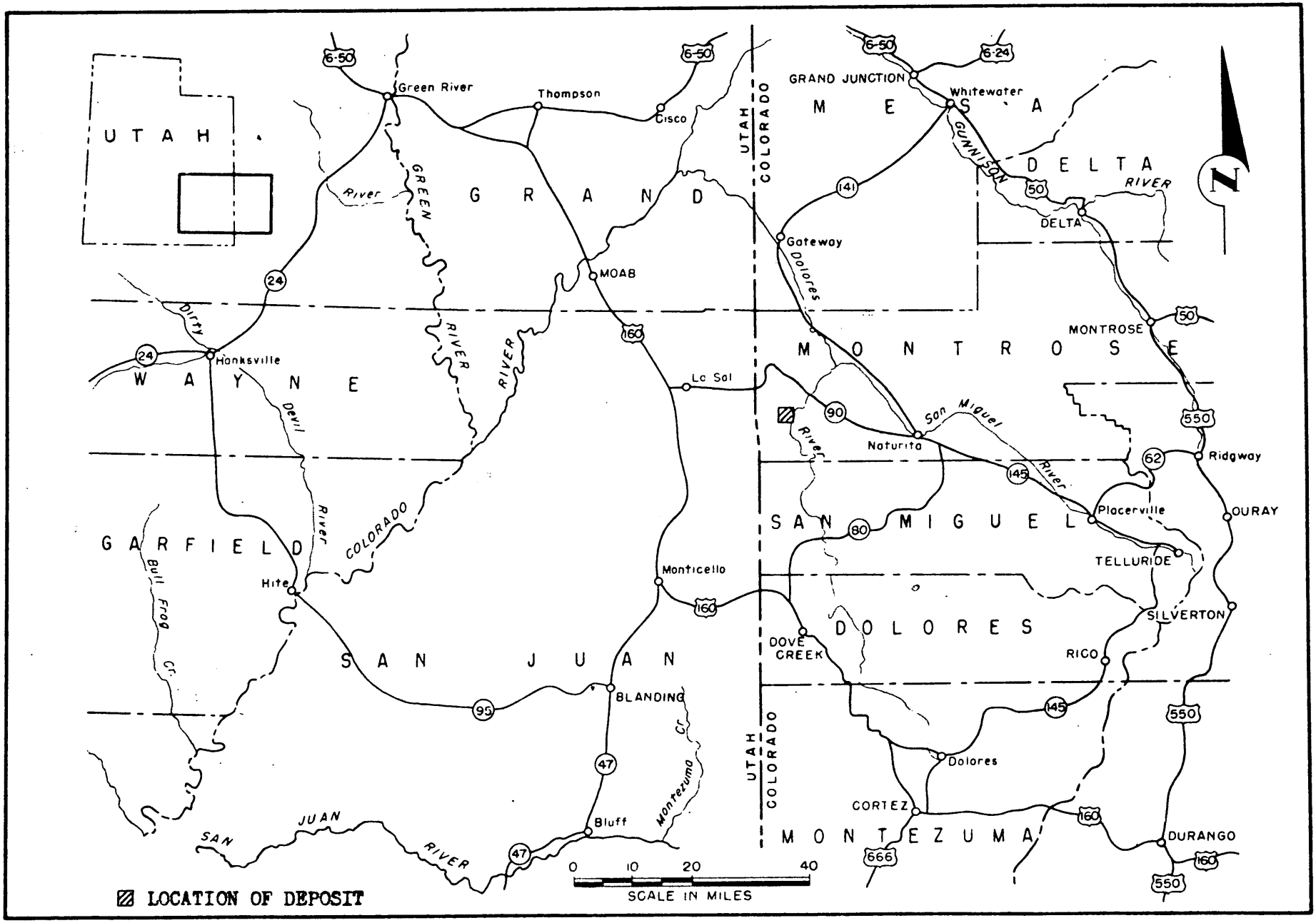


FIGURE 1 - LOCATION MAP, BRITISH-WESTERN AMERICA URANIUM CORPORATION, INC., PROPERTIES, WREY MESA, MONTROSE COUNTY, COLO. DMEA 3709

The topography of the area is relatively flat with a relief of 230 feet and a mean altitude of 6,500 feet.

The claims are mostly covered with sage brush and scattered pine trees. The climate of the area is arid, with warm to cool summers and moderate winters, with infrequent periods of extreme cold.

HISTORY, PRODUCTION, AND OWNERSHIP

The Boomer, Hot Rock, and Pole Cat claim groups were located by Edward Wales and George Wales during the spring of 1954, and were recorded at the Montrose County Recorder's office during May, June and early July, 1954. On July 17, 1954, the locators gave a quit claim mining deed to George W. Barnes and Ralph O. Brown of Denver, Colorado. On December 10, 1954, Barnes and Brown gave a quit claim mining deed to British-Western America Uranium Corporation, and an inspection of the records in Montrose, Colorado, on April 8, 1955, showed the entire group of claims as recorded by British-Western America Uranium Corporation under date of December 9, 1954. The discrepancy in dates of the quit claim mining deed and the recording by British-Western America Uranium Corporation is probably due to the fact that George W. Barnes is a Vice-President and Director of the corporation.

There has not been any production from the claims.

DESCRIPTION OF THE DEPOSITS

The formation exposed on the Boomer, Hot Rock, and Pole Cat group of claims is the Salt Wash member of the Jurassic Morrison formation. The upper sandstone beds of the Salt Wash member are the ones that contain uranium ore in the area, but due to erosion, these are only

exposed in parts of 3 claims in the northwestern part of the group.

The only work done on the claims are three 4-foot discovery pits at the northern center of the Pole Cat No. 1 claim. These showed less than 1 foot of manganiferous silt stone. Five samples taken by A. J. Matson, Mining Engineer, Grand Junction, Colorado, from the three pits assayed from 0.07 to 0.34 percent U_3O_8, but the thickness was given for only one sample. This sample was 6 inches thick and the analysis was 0.12 percent U_3O_8. A few small pieces on the dumps were of ore grade, but a radiometric check of the manganiferous silt stone bed at its outcrops showed anomolies only slightly above background.

This silt stone bed is unimportant for ore, as it is about 20 feet below the ore bearing sandstone.

The nearest uranium production is from 3 relatively small deposits in the Brushy Basin member of the Morrison formation, several miles distant, and ranging in production from a few tens to hundreds of tons.

MINABLE RESERVES

NONE

PRESENT STATUS

Exploration and Development

The only work of this nature was 3 small discovery pits on the Pole Cat No. 1 claim, and short shallow bulldozer cuts on a few of the northeast claims. Although location posts have been placed at the corners of all claims, they have apparently not been surveyed, as no brush or timber cutting was found.

Mining and Milling Equipment and Other Facilities

There are no buildings, equipment, or other facilities on the property.

PROJECT PROPOSALS WITH COSTS

The applicants proposed a drilling program in two stages of 2,500 feet each at a total estimated cost of $20,718.00, Government participation at 75 percent or $15,538.50. Figure 2 shows the claims and the proposed locations of 40 holes spaced at 200-foot intervals in Stage I.

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

CONCLUSIONS

On the Boomer, Hot Rock and Pole Cat claim group of the British-Western America Uranium Corporation there is only a thin erosional remnant of the ore bearing sandstone of the Salt Wash member of the Morrison formation. Only traces of uranium mineralization were found in a thin bed of manganiferous silt stone lying beneath the ore bearing sandstone. The chances of finding ore grade uranium underthese conditions are unfavorable.

RECOMMENDATIONS

It is recommended that DMEA application No. 3709 be denied without prejudice because the uranium mineralization in the claim group area was only in trace quantity and the only normally ore bearing sandstone beds in the Salt Wash member of the claim group is small in area and is considered unfavorable for uranium mineralization.

/mh

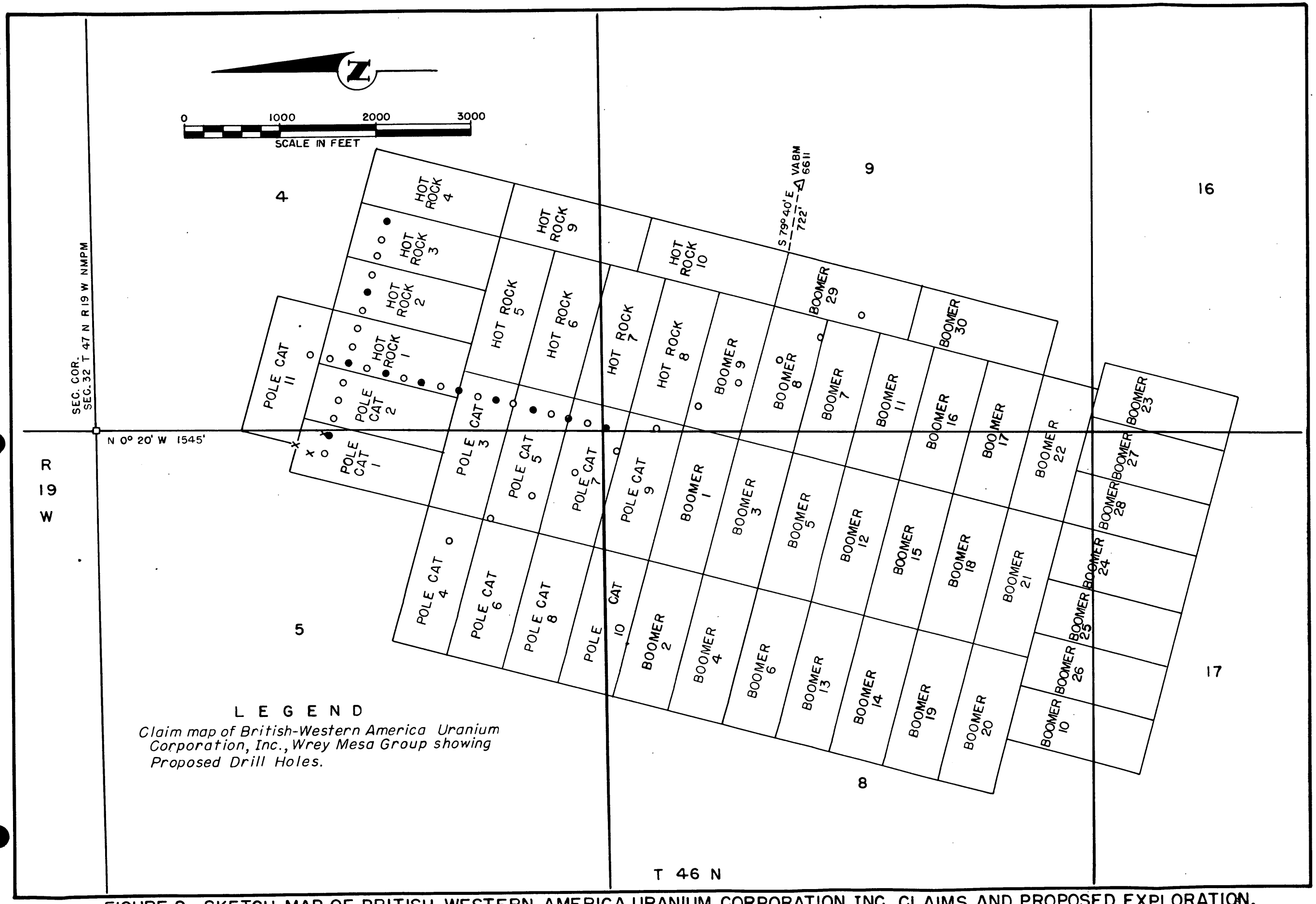


FIGURE 2 - SKETCH MAP OF BRITISH-WESTERN AMERICA URANIUM CORPORATION, INC., CLAIMS AND PROPOSED EXPLORATION, WREY MESA, MONTROSE COUNTY, COLO. DMEA 3709

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Denver, Colorado

Defense Minerals Exploration Administration
Denver Federal Center

RECEIVED
JUN 17 1955

DMEA
Date Rec'd
MAY 24 1955

IN REPLY REFER TO:

BUREAU OF MINES
Denver, Colorado

May 23, 1955

TRANSMITTED
JUN 14 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3709 (Uranium), British-Western America Uranium Corporation, Pole Cat, Boomer, and Hot Rock groups of claims, Montrose County, Colorado

Enclosed are 10 copies of a geologic report by J. L. Gualtieri, U. S. Geological Survey, covering his examination of the subject property.

Because of faulting and erosion, the "ore-bearing" sandstone has been removed from all but the north-central part of the claim group. Gualtieri concludes that the "ore-bearing" sandstone where exposed is lithologically unfavorable for uranium deposits, and he recommends denial of the application for exploration assistance.

I concur with the recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O. BOX 360
GRAND JUNCTION, COLORADO

May 10, 1955

Memorandum

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

From: W. P. Williams

Subject: 3709, British-Western America Uranium Corporation, Pole Cat, Boomer, and Hot Rock groups of claims, Montrose County, Colo.

RECEIVED
JUN 17 1955

Transmitted herewith are 11 copies of a geologic report by J. L. Gualtieri, covering a field examination of the above-referenced property.

In the vicinity of the Pole Cat, Boomer, and Hot Rock claims uranium mineralization is normally found in the uppermost sandstone bed of the Salt Wash member. As a result of faulting and erosion only a very small area of the "ore-bearing" sandstone is present. Mineralized material on the claims is found 20 feet below the base of the ore-bearing sandstone. Gualtieri concludes that the chances are poor of finding a significant uranium deposit on the subject property. He recommends that the application for DMEA assistance be denied and I concur with his recommendation.

This application was brought to the attention of the Exploration Division, U. S. Atomic Energy Commission, Grand Junction Operations Office. The Commission had no specific information concerning the property.

W P Williams

W. P. Williams
Geologist

WPW/mlr
Enclosures

RECEIVED
JUN 17 1955

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

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

DMEA 3709, British-Western America Uranium Corporation, Pole Cat, Boomer, and Hot Rock groups of claims, Montrose County, Colo.

Uranium

Geologic Report

by

J. L. Gualtieri
U. S. Geological Survey

May 6, 1955

DMEA 3709

INTRODUCTION AND SUMMARY

The Pole Cat, Boomer, and Hot Rock claim group composed of the Pole Cat Nos. 1-11, the Boomer Nos. 1-30, and Hot Rock Nos. 1-10 were visited on April 7, 1955, by a DMEA examining team composed of D. McMillan of the U. S. Bureau of Mines and W. D. Carter, J. C. Warman, W. R. Barton, and J. L. Gualtieri of the U. S. Geological Survey.

Access to the Pole Cat, Boomer, and Hot Rock groups of claims is reached by traveling about 14 miles east of LaSal, Utah, over Utah Highway 46 and about 15 miles south over unimproved access roads. The claims are located in the Paradox Mining District in Secs. 4, 5, 8, 9, 16, and 17, T. 47 N., R. 19 W., N.M.P.M., Montrose County, Colo. (fig. 1). The claims are accessible when roads are dry or frozen, but travel is difficult during the spring thaw.

The Pole Cat, Boomer, and Hot Rock groups of claims consist of 51 unpatented claims originally staked by Edward and George E. Wales of Mesa County, Colo., in April, May, and July of 1954. On July 17, 1954, the claims were purchased by George W. Barnes and Ralph O. Brown of Denver, Colo. All the claims were then sold to the applicant, British-Western America Uranium Corporation, December 10, 1954.

The Pole Cat, Boomer, and Hot Rock groups of claims are located at the extreme south end of Wray Mesa. The topography is generally of low relief and of the bench and slope type, dropping away to the south and west toward Coyote Wash. There are no surface facilities or underground workings on the claims outside of discovery and prospect pits. Mineral discovery is restricted to the Pole Cat No. 1 claim, with visible mineralization appearing in or on material excavated from two of several shallow holes.

GEOLOGY AND ORE RESERVES

The rocks exposed on the Pole Cat, Boomer, and Hot Rock group of claims are those of the Salt Wash member of the Jurassic Morrison formation. The exposed rocks present almost the entire Salt Wash section, but only in the north central part of the claim group is the uppermost sandstone, a lenticular, light brown to white sandstone, known as the "ore-bearing sandstone" present as erosional remnants. No complete section of the "ore-bearing sandstone" was observed on the claims. The beds dip slightly to the south. A north trending fault with a measured displacement of 125 feet passes through the northeast corner of the claim group. The beds are upthrown to the east of the fault, making it extremely unlikely that the "ore-bearing sandstone" is present in the alluvium covered northeast portion of the group.

The mineralized material found on the Pole Cat No. 1 was found in a thin (less than one foot thick) manganiferous siltstone bed located 20 feet below the base of the "ore-bearing sandstone". The examining team made a radiometric check of the bed at its outcrops and anomalies only slightly above background were detected. The nearest uranium production comes from the Brushy Basin Nos. 1 and 3, the Too High, and the Yip Yip mines (Strategic Minerals Development Corporation). The Brushy Basin Nos. 1 and 3 mines and the Too High mine are situated in the Brushy Basin member of the Jurassic Morrison formation. The Yip Yip mine is located in the uppermost sandstone unit of the Salt Wash member of the Jurassic Morrison formation. All are relatively small deposits ranging from a few tons to a few hundred tons.

Drilling in this general area of Wray Mesa has been restricted to the immediate vicinity of the mines and promising prospects and no wide-spaced exploration drilling has been undertaken by the Government or private enterprise. Therefore, only local trends of mineralization or environments favorable to mineralization have been recognized. Similarly, inspection of the "ore-bearing sandstone" rim within the claim groups area revealed nothing promising.

CONCLUSIONS AND RECOMMENDATIONS

Inspection by the examining team found that the ore-bearing sandstone outcrops as thin erosional remnants in the north end of the claim group. Only a trace of mineralization was observed in a very thin manganiferous siltstone lying beneath the "ore-bearing sandstone". It is extremely doubtful that uranium of ore-grade and quantity would be found in such an unfavorable environment. It is recommended that DMEA application No.

3709 be denied for the following reasons: (1) the mineralization on the property was not of ore grade and in only trace quantity; (2) the presence of a fault in the claim group area eliminates the presence of "ore-bearing sandstone" in the east central and northeast areas of the claim group; and (3) the only present normally "ore-bearing sandstone" is in the north central part of the claim group and it is deemed unfavorable for uranium deposits.

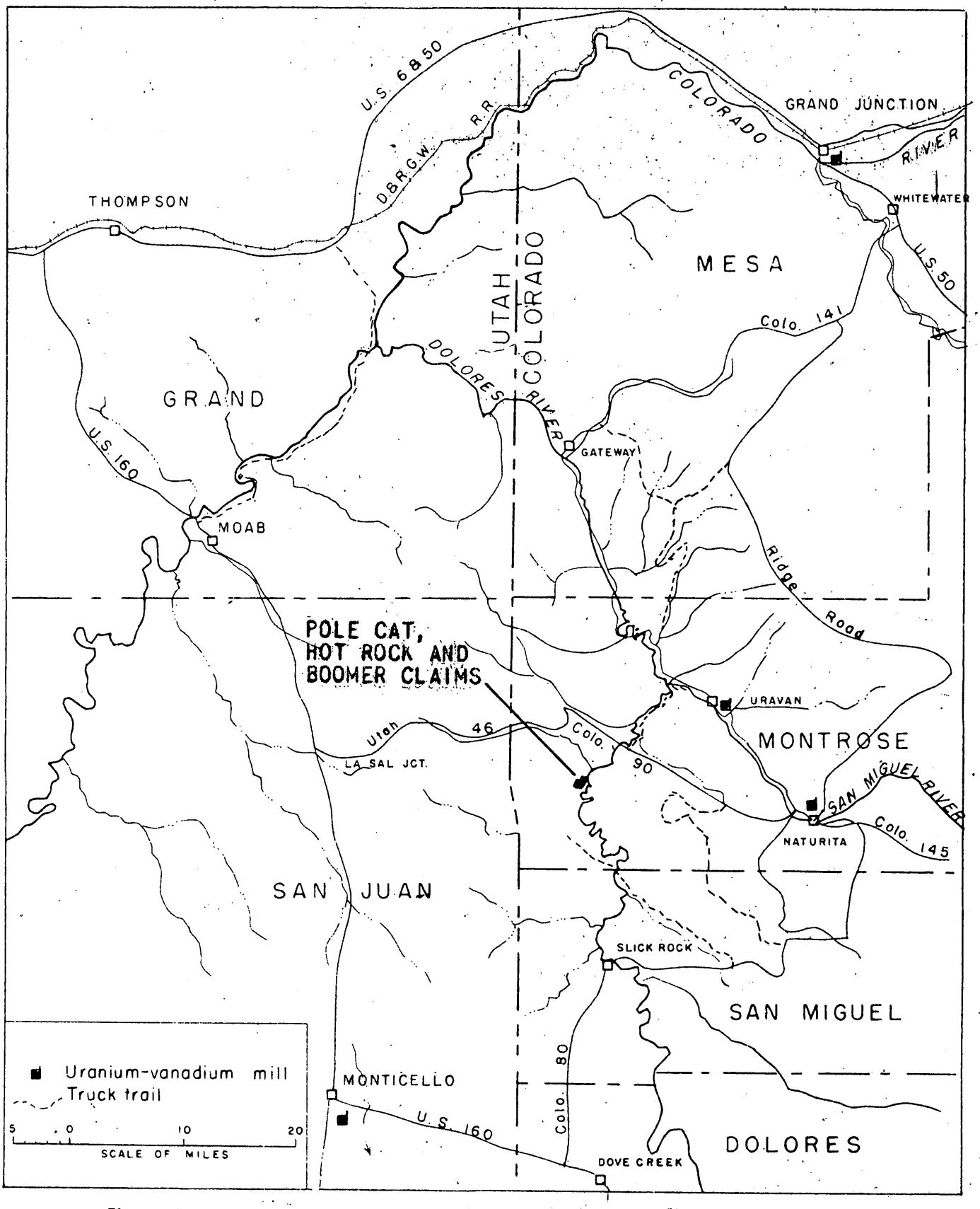
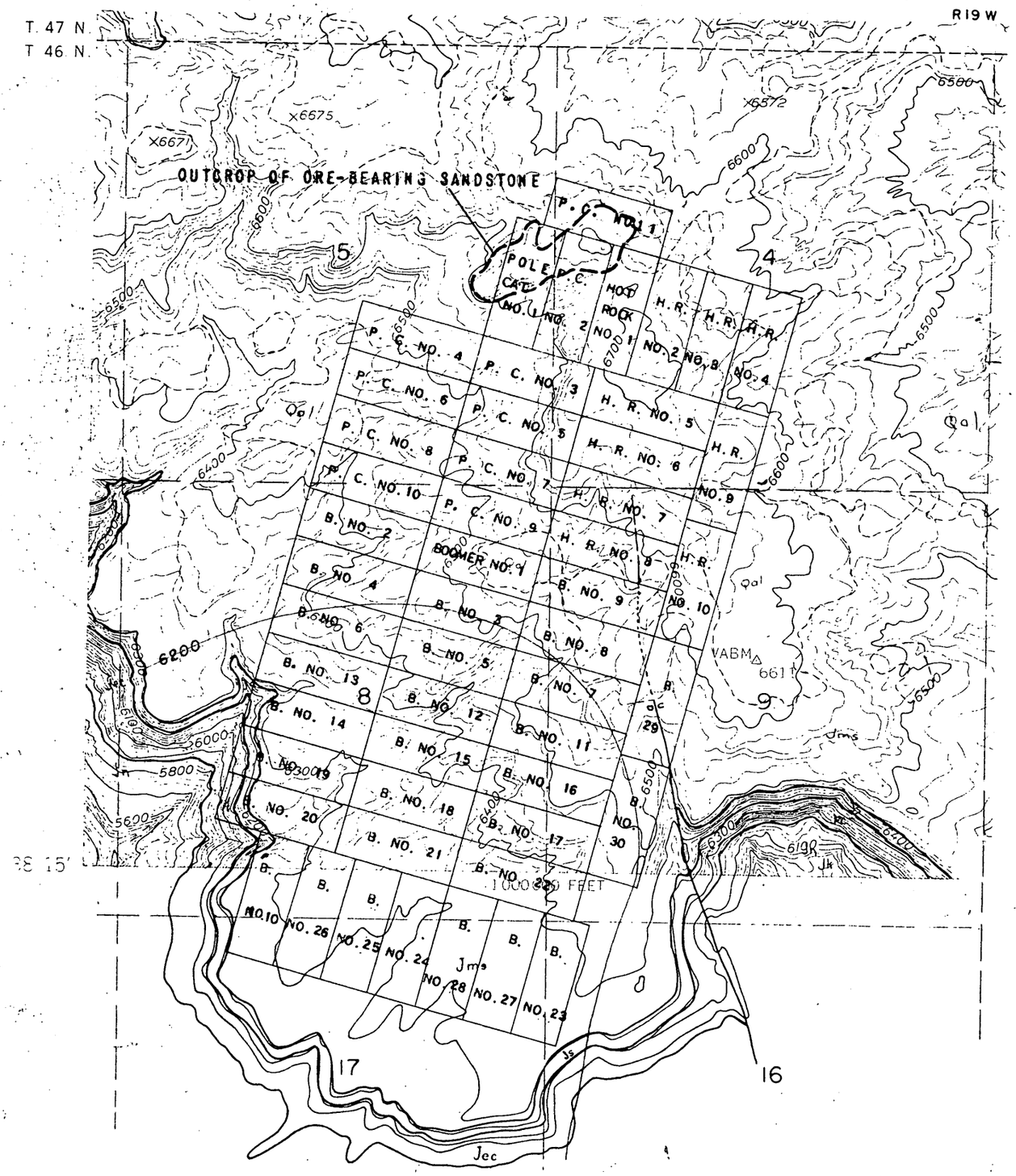


Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF POLE CAT, HOT ROCK AND BOOMER CLAIMS, BRITISH-WESTERN AMERICAN URANIUM CORPORATION, MONTROSE COUNTY, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3709



EXPLANATION

Qal	QUATERNARY ALLUVIUM
Jms	SALT WASH MEMBER, JURASSIC MORRISON FORMATION
Js	JURASSIC SUMMERVILLE FORMATION
Jec	JURASSIC CARMEL - ENTRADA FORMATION
Jn	JURASSIC NAVAJO FORMATION
Jk	JURASSIC KAYENTA FORMATION

GEOLOGIC CONTACT (DASHED WHERE INFERRED)

U/D FAULT, U, UPTHROWN SIDE, D, DOWNTHROWN SIDE. DASHED WHERE APPROXIMATELY LOCATED

6200 STRUCTURE CONTOUR ON TOP OF ENTRADA FORMATION

N. 15°

Note: BASE FROM U. S. G. S. QUADRANGLE MAPS PARADOX AND ANDERSON MESA

2000 0 4000 FEET

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Figure 2. GEOLOGIC MAP SHOWING POLECAT, HOT ROCK, AND BOOMER CLAIMS, BRITISH - WESTERN AMERICA URANIUM CORPORATION, MONTROSE COUNTY, COLORADO

Note: [illegible]

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED

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. 3709
Metal or Mineral Uranium, Vanadium
Date Received 3-3-55
Estimated Cost $20,718
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: BRITISH-WESTERN AMERICA URANIUM CORPORATION (A COLORADO CORPORATION) C. A. JOHNSON BUILDING, DENVER, COLO. THE OFFICERS OF THE ABOVE CORPORATION ARE LISTED IN THE ATTACHED BROCHURE, ENCLOSURE A.

(*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 51 UNPATENTED MINING CLAIMS LOCATED IN SECTIONS 4, 5, 8, 9, 16 AND 17 OF TOWNSHIP 46 NORTH, RANGE 19 WEST, MONTROSE COUNTY, COLORADO, AS EVIDENCED BY QUIT CLAIM MINING DEEDS DATED 17 JULY 1954 AND 10 DEC. 1954, COPIES OF WHICH ACCOMPANY THIS APPLICATION, ENCLOSURE B.

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

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

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

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

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

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

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

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

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

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

16—66551-1

PLEASE SEE ATTACHED TYPEWRITTEN PAGES FOR INFORMATION NOT FURNISHED ON THIS SHEET.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore URANIUM AND VANADIUM OXIDES (CARNOTITE TYPE ORES)

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

(*c*) The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☒ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated February 25, 1955

BRITISH-WESTERN AMERICA URANIUM CORPORATION
(Applicant)

By Henry C. Stikes V.P.

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

3. (E) THE APPLICANT HAS PURCHASED THE GROUP OF 51 UNPATENTED CLAIMS FROM EDWARD WALES AND GEORGE E. WALES OF MESA COUNTY, COLORADO, AND THE CLAIMS ARE SUBJECT TO A ROYALTY OF 10% PAYABLE TO GEORGE E. WALES AND EDWARD WALES AND OF 2½% PAYABLE TO JACK SMITH, ALSO OF MESA COUNTY, COLORADO.

4. (A) NO MINING OPERATIONS HAVE BEEN CONDUCTED TO DATE ON THE PROPERTY. EXPLORATION WORK IS LIMITED TO THREE SHALLOW PITS ON THE POLE CAT NO. 1 CLAIMS. THE PROPERTY HAS NOT BEEN DRILLED.

(B) THERE IS NO RECORD OF PAST PRODUCTION FROM THE CLAIMS, NOR ARE THERE AS YET ANY ORE RESERVES.

(C) THE CLAIMS ARE IN THE MORRISON FORMATION OF THE UPPER JURASSIC AGE ON THE MESA SURMOUNTING THE NORTH FLANK OF COYOTE WASH. THE MINERALIZATION WHICH HAS BEEN FOUND OCCURS IN WHAT IS PROBABLY THE THIRD OR FOURTH LENS FROM THE BOTTOM OF THE SALT WASH OR LOWER MEMBER OF THE MORRISON FORMATION. THIS PUTS THE MINERALIZATION IN THE STRATIGRAPHIC ZONE NEAR THE TOP OF THE SALT WASH. THE SANDSTONE LENSES IN THE UPPER PART OF THE SALT WASH ARE GENERALLY CONSIDERED IN THIS PART OF THE PLATEAU TO BE MORE FAVORABLE FOR HIGH GRADE CARNOTITE ORE DEPOSITION THAN THE LENSES LOWER DOWN, ALTHOUGH IN PLACES ORE HAS BEEN FOUND NEAR THE BOTTOM OF THE FORMATION.

THE TYPICAL CARNOTITE ORE BODY OF THE REGION IS A GENERALLY FLAT LYING, TABULAR TO PODLIKE MASS LYING ON THE FLANKS OF A SANDSTONE LENS. IN PLACES, THE ORE WILL BE NEARLY SOLID MINERAL WHILE IN OTHERS THE INTERSTICES OF THE SANDSTONE AND CREVICES ONLY WILL BE MINERALIZED. DRILLING IS CONSIDERED ONE OF THE BEST MEANS OF EXPLORATION, FOR EVEN BLANK HOLES, BY OUTLINING THE LENSES, HELP TO CONFINE EXPLORATION WORK TO THE MOST FAVORABLE LOCALITIES. OREBODIES RANGE FROM A FEW TONS TO SEVERAL THOUSAND TONS IN SIZE. IN THE REGION OF THE YELLOW BIRD MINE, ABOUT 4 MILES TO THE NORTH, OREBODIES ARE SAID TO HAVE BEEN FOUND OF 8,000 TO 20,000 TONS.

THE PRESENT APPLICATION PROPOSES TO EXPLORE BY DRILLING THE POLE CAT, HOT ROCK AND BOOMER CLAIMS. THE REASON FOR THE PROJECT IS THE

BELIEF THAT THE CLAIMS OCCUPY A FAVORABLE AREA FOR ORE OCCURENCE BASED ON (1) ORE WHICH HAS ACTUALLY BEEN UNCOVERED BY DISCOVERY PITS ON THE PROPERTY, (2) PROXIMITY TO PRODUCING MINES SUCH AS YELLOW BIRD 4 MILES TO THE NORTH AND THE RAVEN AND NEARBY MINES ABOUT 2 MILES TO THE SOUTH. DRILLING WOULD BE SHALLOW, IN THE NEIGHBORHOOD OF 60 FEET, AND IT IS BELIEVED THAT THE 5000 FEET OF EXPLORATION DRILLING PROPOSED WOULD HAVE A FAIR CHANCE OF FINDING AN OREBODY. A COPY OF A REPORT BY FRANK H. MACPHERSON, CONSULTING MINING ENGINEER AND WHO HAS EXAMINED THE PROPERTY, IS ATTACHED AS ENCLOSURE C. ENCLOSURE D SHOWS THE GENERAL GEOLOGY OF THE AREA INVOLVED WHILE ENCLOSURE E SHOWS THE TOPOGRAPHY WITH THE CLAIM GROUP SUPERIMPOSED.

(D) THE CLAIMS ARE LOCATED ON WRAY MESA AND ARE REACHED AS FOLLOWS: (1) TAKE THE PAVED HIGHWAY SOUTH OF MOAB, UTAH, FOR 24 MILES TO THE JUNCTION OF STATE HIGHWAY NO. 46. (A) TURN EAST ON HIGHWAY 46, AN IMPROVED GRAVEL ROAD, FOR 19 MILES. (3) TAKE DIRT ROAD LEADING SOUTH UP A HILL FOR 7 MILES. HERE THE ROAD BRANCHES. (4) TAKE SOUTH BRANCH, FOLLOWING MAIN TRAVELLED DIRT ROAD DOWN FROM THE UPPER MESA FOR 7 MILES. THE ROAD AT THIS POINT OPENS UP ON TO A SAGEBRUSH FLAT AND THE NW CORNER POST OF THE POLE CAT NO. 11 CLAIM WILL BE READILY VISIBLE.

THE 14 MILES OF DIRT ROAD LEADING TO THE PROPERTY FROM HIGHWAY 46 ARE PASSABLE TO ALL VEHICLES IN THE SUMMER AND AUTUMN. IN THE WINTER PASSAGE IS DIFFICULT EXCEPT FOR 4-WHEEL DRIVE MACHINES AND CONSIDERABLE GRADING AND BALLASTING WOULD HAVE TO BE DONE TO MAKE THIS 14 MILE ROAD STRETCH "ALL WEATHER."

THE PROPERTY ITSELF HAS NO ROADS UPON IT EXCEPT FOR A FEW HUNDRED YARDS AT THE NORTH END. ACCESS ROADS FOR DRILLING WOULD HAVE TO BE CONSTRUCTED, BUT THE CHARACTER OF THE TERRAIN IS SUCH THAT THIS WOULD PRESENT NO DIFFICULTY. IT IS ESTIMATED THAT A HEAVY BULLDOZER COULD MAKE ABOUT ONE-HALF MILE OF DRILL ACCESS ROAD PER DAY.

THE NEAREST SUPPLY POINT FOR MATERIALS AND LABOR IS MOAB, UTAH. THE ORE WOULD EITHER BE SOLD THERE OR AT MONTICELLO, DEPENDING ON PURCHASE TERMS. MOAB IS ABOUT EIGHT MILES CLOSER TO THE PROPERTY THAN MONTICELLO.

(E) DRILLING WOULD BE BY THE DRY, ROTARY, AIR BLASTMETHOD FOR WHICH LITTLE WATER IS NEEDED. DOMESTIC WATER COULD BE HAULED FROM A SMALL SPRING SAID TO LIE AT A DISTANCE OF ABOUT 1 MILE. MANPOWER, MATERIALS, SUPPLIES AND EQUIPMENT ARE AVAILABLE AT NEARBY TOWNS SUCH AS MOAB, UTAH AND MONTICELLO.

5. (B) THE EXPLORATION PROJECT:

THE PROJECT CONSISTS OF DRILLING A SERIES OF HOLES AS INDICATED ON THE ACCOMPANYING MAP (ENCLOSURE F).

IT IS BELIEVED THAT THE PURPOSE OF EXPLORING THE UPPER OR MORE FAVORABLE SANDSTONE OF THE SALT WASH IS BEST SERVED BY TWO INTERSECTING LINES OF HOLES AT 200 FOOT SPACING. SLIGHT DEVIATIONS FROM THE DRILL HOLE SITES SHOWN MAY BE NECESSARY ON ACCOUNT OF TOPOGRAPHY BUT THE PATTERN SHOWN IS TO BE FOLLOWED AS NEARLY AS POSSIBLE. THE TWO LINES WILL ACCOUNT FOR ABOUT 2500 FEET, OR HALF OF THE DRILLING PROJECTED.

THE BALANCE OF THE DRILL FOOTAGE IS TO BE USED IN DRILLING HOLES WHOSE LOCATION WILL BE GOVERNED BY THE FINDINGS OF THE WIDE SPACED DRILLING. AN ESTIMATED QUANTITY OF FIVE HOLES IS TO BE DRILLED TO THE BASE OF THE SALT WASH FORMATION OR TO A DEPTH OF ABOUT 200 FEET. ALL HOLES ARE TO BE LOGGED BY A GEOLOGIST WHO WILL BE PRESENT DURING DRILLING.

(D) THE APPLICANT RETAINS AS ITS OFFICER IN CHARGE OF MINING OPERATIONS, MR. GEORGE C. HEIKES, CONSULTING MINING GEOLOGIST. MR. HEIKES HAS A WIDE EXPERIENCE IN MINE OPERATION AND EXPLORATION, INCLUDING MANY YEARS WITH THE UNITED STATES GOVERNMENT, THE ANACONDA COPPER COMPANY, THE KENNECOTT COPPER COMPANY, AND THE NATIONAL LEAD COMPANY. HIS EXPERIENCE IS FURTHER DESCRIBED IN ENCLOSURE A.

MR. E. T. KNIGHT, MINING ENGINEER, WHO WILL SUPERVISE OPERATIONS, HAS OVER FIFTEEN YEARS EXPERIENCE IN THE OPERATION OF VARIOUS TYPES OF LODE AND PLACER MINES. FOR THE LAST SIX YEARS HE HAS BEEN WITH THE FRESNILLO COMPANY IN MEXICO IN THE CAPACITY OF ASSISTANT SUPERINTENDENT AND ACTING SUPERINTENDENT OF ONE OF THE PRINCIPAL UNITS OF THAT COMPANY.

IT IS BELIEVED THAT THE APPLICANT IS WELL ADAPTED TO CARRY OUT THE EXPLORATION PROJECT FROM THE STANDPOINT OF ABILITY.

6. ESTIMATE OF COSTS

(A) INDEPENDENT CONTRACTS

DRILLING

5000 FEET @ $2.00 PER FOOT	$10,000.00

BULLDOZER OPERATION

200 HOURS @ $12.50 PER HOUR	2,500.00

(B) LABOR, SUPERVISION, CONSULTANTS

LABOR

NONE

SUPERVISOR

2 DAYS PER WEEK FOR 12 WEEKS @ $25.00 PER DAY	600.00

CONSULTANTS

SALARY OF RESIDENT GEOLOGIST 3 MONTHS AT $600 PER MONTH	1,800.00
DETAILED SURVEYING OF DRILL HOLE SITES AND SURFACE. 5 DAYS AT $200 PER DAY	1,000.00
OUTSIDE GEOLOGIC CONSULTANT	200.00

(C) OPERATING MATERIALS AND SUPPLIES

IN GENERAL, ONLY THOSE MATERIALS AND SUPPLIES WILL BE NEEDED AS WILL BE REQUIRED TO SUPPORT THE ACTIVITIES OF THE RESIDENT GEOLOGIST, AS FOLLOWS:

DOMESTIC WATER

300 GALLONS PER DAY FOR 90 DAYS @ 1¢ PER GAL.	270.00

ASSAYING

100 DETERMINATIONS @ $5.00	500.00
100 SAMPLE SACKS @ 50¢	50.00
2000 PAPER BAGS @ $5.00 PER 1000	10.00

BUTANE DOMESTIC FUEL

12 WEEKS @ $10.00 PER WEEK	120.00
GASOLINE AND OIL FOR LIGHT PLANT @ $2.00 PER DAY	180.00
GASOLINE FOR JEEP STATION WAGON 2000 MILES - 200 GALS. GAS @ 40¢ PER GAL.	80.00

(D) OPERATING EQUIPMENT

RENT JEEP STATION WAGON -

90 DAYS AT $7.50 PER DAY	675.00
2000 MILES @ 5¢ PER MILE	100.00
RENT DOMESTIC LIGHT PLANT FOR 3 MONTHS	150.00
RENT TRAILER FOR 3 MONTHS @ $200.00 PER MONTH	600.00

(TO GO WITH DMEA APPLICATION - BRITISH WESTERN AMERICA URANIUM CORPORATION)

(E) REHABILITATION AND REPAIRS

NONE

(F) NEW BUILDINGS, IMPROVEMENTS, INSTALLATIONS

NONE

(G) MISCELLANEOUS

NONE

	SUB TOTAL	$18,835.00
(H) CONTINGENCIES		
10%		1,883.00
	TOTAL	$20,718.00

(TO GO WITH DMEA APPLICATION - BRITISH WESTERN AMERICA URANIUM CORPORATION)

ENCLOSURE

October 2, 1954

Introduction

This report covers mining claims owned by the Anglo American Uranium Company on Wray Mesa, Montrose County, Colorado, and fifteen claims under option to purchase, known as the Manti and Rim claims (Abajo Mining Company) located near Monticello, Utah. The group on Wray Mesa contains fifty-one (51) and the Manti and Rim groups contain fifteen (15) mining claims.

Wray Mesa Claims

This group consists of eleven (11) Polecat, ten (10) Hotrock and thirty (30) Boomer claims, a total of fifty-one (51) mining claims. These claims are situated on Wray Mesa and are reached by automobile a distance of approximately 56 miles from Moab, Utah. About twenty-five (25) miles of this distance is over a paved highway, 12 miles over an improved gravel road and the balance of ninteen (19) miles over an unimproved, rough and difficult trail. Should mining operations start in this area considerable road improvement will have to be done to facilitate automobile and truck travel.

The elevation of these claims averages about 6,500 feet above sea level.

Geology

The Wray Mesa claims are in the Morrison formation of the upper jurassic age. The Morrison formation is composed of two members - the upper one being the Brushy Basin and the lower one the Salt Wash.

The Salt Wash has been the greatest source of carnotite ore production on the Colorado Plateau. It covers a large area on the Plateau, but the greatest concentration of ore bodies lie in a belt that straddles the boundary line between Colorado and Utah. It is in this general area that the above claims are located. Until recently the Salt Wash member of the Morrison formation has been the principal source of uranium, vanadium and radium.

The climate of this general area is semi-arid except in the high mountains.

The Salt Wash deposits consist of massive lenses of medium to coarse-grained, rather porous sandstone, partly conglomeritic at some places in Utah, interbedded with red and gray shale. The Salt Wash has an average thickness on the Plateau of approximately 190 feet.

In the carnotite region of Mesa, Montrose and San Miguel Counties, Colorado, and adjacent parts of Utah, most of the ore occurs in the sandstone lenses that occupy the stratigraphic zone at the top of the Salt Wash unit. Many of these lenses are more extensive than other sandstone lenses in the formation; a single lens may be as much as sixty feet thick and several miles long. It is the opinion of many observers that the more favorable places for ore are those where the sandstone is relatively thick, but ore has been found where the sandstone is thin. Most of the ore is found in the lower parts of sandstone lenses, but ore bodies may occur anywhere from the bottom to the top of a lens. The lower part is apparently more favorable for bodies of milling grade vanadium ore, whereas the upper part is more favorable

for small bodies of high-grade uranium ore. In some mines, however, there are two or more rather distinct levels of milling-grade ore, separated by as much as twenty or thirty feet of barren sandstone. In places a thick shale lens lies within, or tongues into, an ore-bearing sandstone lens.

As the sandstones that are most favorable for ore occupy the upper part of the lower unit (Salt Wash), it appears that in the area being considered it may be drilled at a comparatively small expense from the surface on Wray Mesa.

The ore bodies in the Salt Wash unit of the Morrison formation range from small masses only a few feet across, containing only a few tons of ore, to large tabular bodies of irregular outline several hundred feet across, containing as much as a hundred thousand tons of ore; most bodies contain from a few hundred to a few thousand tons of ore. The tabular ore bodies tend to lie essentially parallel to the sandstone beds, but they do not follow the beds in detail. The limit of the uranium-vanadium-bearing sandstone in many bodies is sharply defined and in places is actually the limit of commercial ore. Elsewhere, the limit of commercial ore is less clearly defined, and mineralized sandstone too thin or too lean to be profitably mined extends considerably beyond the limit of minable ore.

The bodies with well-defined limits vary greatly in lateral dimensions but are thin; usually the thickness of the ore is only a few feet, but in places it is as much as fifteen feet. One of the peculiar characteristic features in these bodies is the tendency for the better grade ore to lie along the margins of the bodies.

As stated above, there are fifty-one (51) mining claims in this group on Wray Mesa. There has been exploratory work on only one claim - the Pole Cat No. 1 claim - and the work done on this claim is of a very limited amount. Three shallow pits have been excavated on the Pole Cat No. 1 claim. From these pits samples have been taken which assayed as follows:

Date	Sample	Thickness	% V_2O_5	% U_3O_8
6/28/54	Hole #1	—	1.26	0.34
6/28/54	Hole #2	—	0.24	0.07
6/28/54	Hole #1	—	0.56	0.15
6/28/54	Hole #5	—	1.09	0.28
9/9/54	Hole #1	6 inches	0.74	0.12
9/9/54	Hole #2	1/2 inch	1.40	1.25

The writer did not take the above samples and no thickness of the ore body was given for the first four samples.

The above assay results indicate uranium values are present in this one mining claim and their main value is an indication that uranium-vanadium ore is present and warrants exploratory work in the area.

As stated above, the Salt Wash member of the Morrison formation, which this area comprises, is a favorable area for uranium ore production. It is recommended that approximately 5,000 feet of exploratory drilling be done on these claims. Should this amount of drilling indicate minable ore bodies, additional drilling should be done.

No detailed examination was made of the fifty-one (51) claims because no exploratory work of any kind has been done on the property except the small amount as noted on the Pole Cat No. 1 claim.

As stated above this group of claims is located in a favorable geological area. In this same geological structure to the north, mines

such as the Firefly, Gray Don, Vanadium Queen, Hespress and Yellow Bird have been worked. Also, to the south of these claims the Broken Shoe, Puma, Brushy Basin, Yip Yip, Crazy Horse, Yucca, Too High, Long John, Sego Lilly Lou, Howling Coyote, Big Casino and the Stocks mines have been operated.

This area, I believe, has a good prospecting possibility, which is its greatest value at the present time.

Manti and Rim Claims (Abajo Uranium Company)

This group of fifteen mining claims is about six (6) miles northwest of Monticello, Utah, and about four (4) miles west of U. S. Highway 160.

There has been no exploratory work of any kind on this group of claims. There are no ore outcrops and a considerable amount of deep drilling will be necessary to prove the value of this property. Most of this area is overlain by the Dakota formation, which means that drilling must be done to a depth of 500 feet or more.

I do not recommend the expenditure of money that would be necessary to prove the value of this property.

Conclusion

Early this year (1954) the U. S. Atomic Energy Commission announced that the guaranteed minimum price for uranium-bearing carnotite-type or roscoelite-type ores of the Colorado Plateau area would be extended to March 31, 1962, thus giving the producer a guaranteed minimum price for the next seven and one-half years. At the same time, the U. S. Atomic Energy Commission extended the termination date for the bonus for initial production of uranium ore from new domestic mines to February 28, 1957.

The only market for uranium ore in the United States is the United States Government, operated through the U. S. Atomic Energy Commission. The U. S. Atomic Energy Commission in turn authorizes various ore processing companies to purchase uranium-bearing ores. The Atomic Energy Commission in the past, and presently, is doing everything possible to help ore producers, and present indications are that there will be a market for uranium ore until at least March 31, 1962.

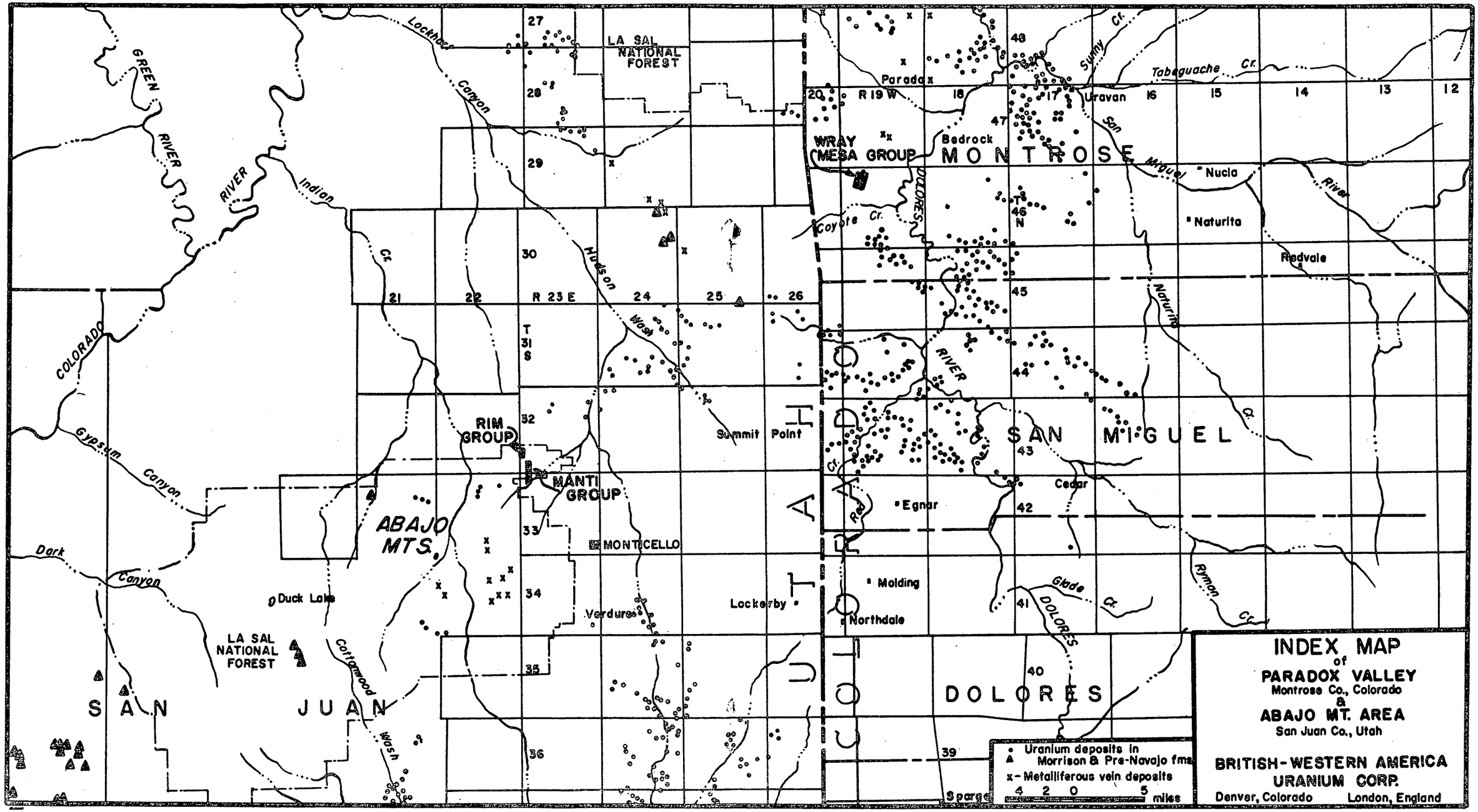
The Atomic Energy Commission, and all other ore buyers, purchase ores under the regulations described in Atomic Energy Commission Circular 5, Revised. The bonus regulations are set up in Atomic Energy Commission Circular 6.

In my opinion the claims on Wray Mesa warrant the expenditure of a limited amount of money to explore the area by comparatively long spaced drilling.

I suggest that no money be spent on the claims in the Monticello area known as the Abajo Uranium Company.

Frank H. MacPherson

Frank H. MacPherson
Engineer of Mines



No implication is intended that the deposits shown were in general individually worked as sources of substantial uranium production.

USE OF PROCEEDS

The proceeds of the sale of stock hereunder will be devoted by the Corporation to the following purposes:

1.	Legal, administration and underwriting expenses, estimated	$ 15,000.00
2.	Explore and develop Juneau property	11,000.00
3.	Complete purchase of Eureka group	25,180.00
4.	Complete purchase of Idiot's Delight group	6,500.00
5.	Explore Star claims per operating agreement with owner, up to	4,000.00
6.	Explore Wild Goose claims as per operating agreement with owner, up to	7,500.00
7.	Explore Wray Mesa claims, up to	5,000.00
8.	Explore Eureka claims, up to	6,000.00
9.	Explore Joker claims, up to	4,000.00
10.	Repay existing loans	40,000.00
11.	Balance to be used for further exploration, surveying and geological prospecting, drilling, mining and the purchase of additional claims or leases when justified in the opinion of the management and for working capital and other general corporation purposes (1) (2)	122,000.00
		$246,180.00

(1) The officers and directors of the Corporation will serve without salary or other compensation until such time as the Board of Directors shall determine that the revenue of the Corporation shall have reached a figure so as to permit payment to said officers and directors commensurate with their respective services.

(2) The Corporation and its Board of Directors reserve the right to change the application of the proceeds described above in the best interest of the Corporation and its stockholders as circumstances may justify or require.

CAPITALIZATION

The capitalization of the Corporation as of the date of this Offering Brochure is as follows:

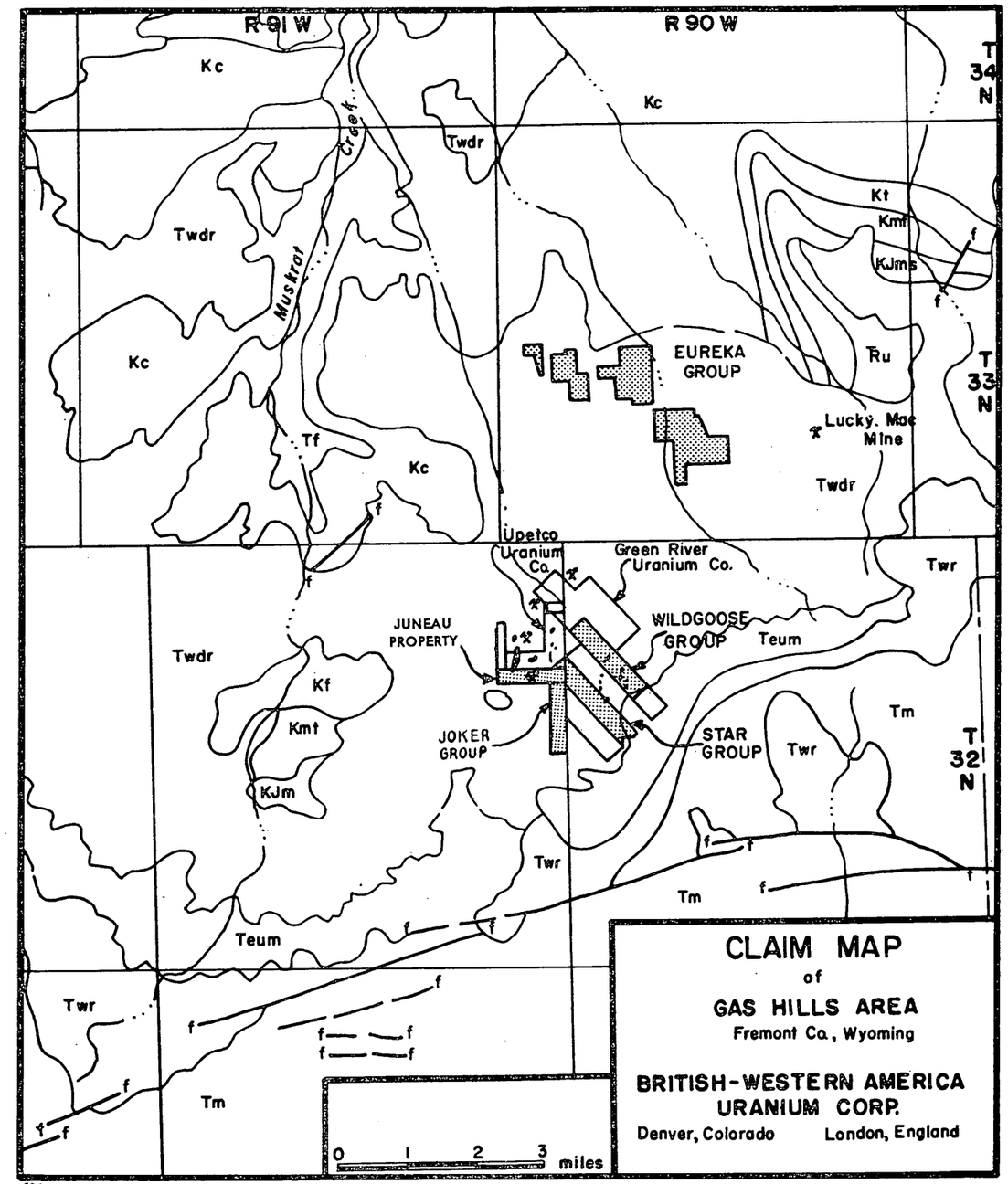
	Authorized	Issued and Outstanding	To be Outstanding
Common Stock (Par Value $0.25 per share)	600,000	117,000	415,400
Warrants*	150,000	—	150,000

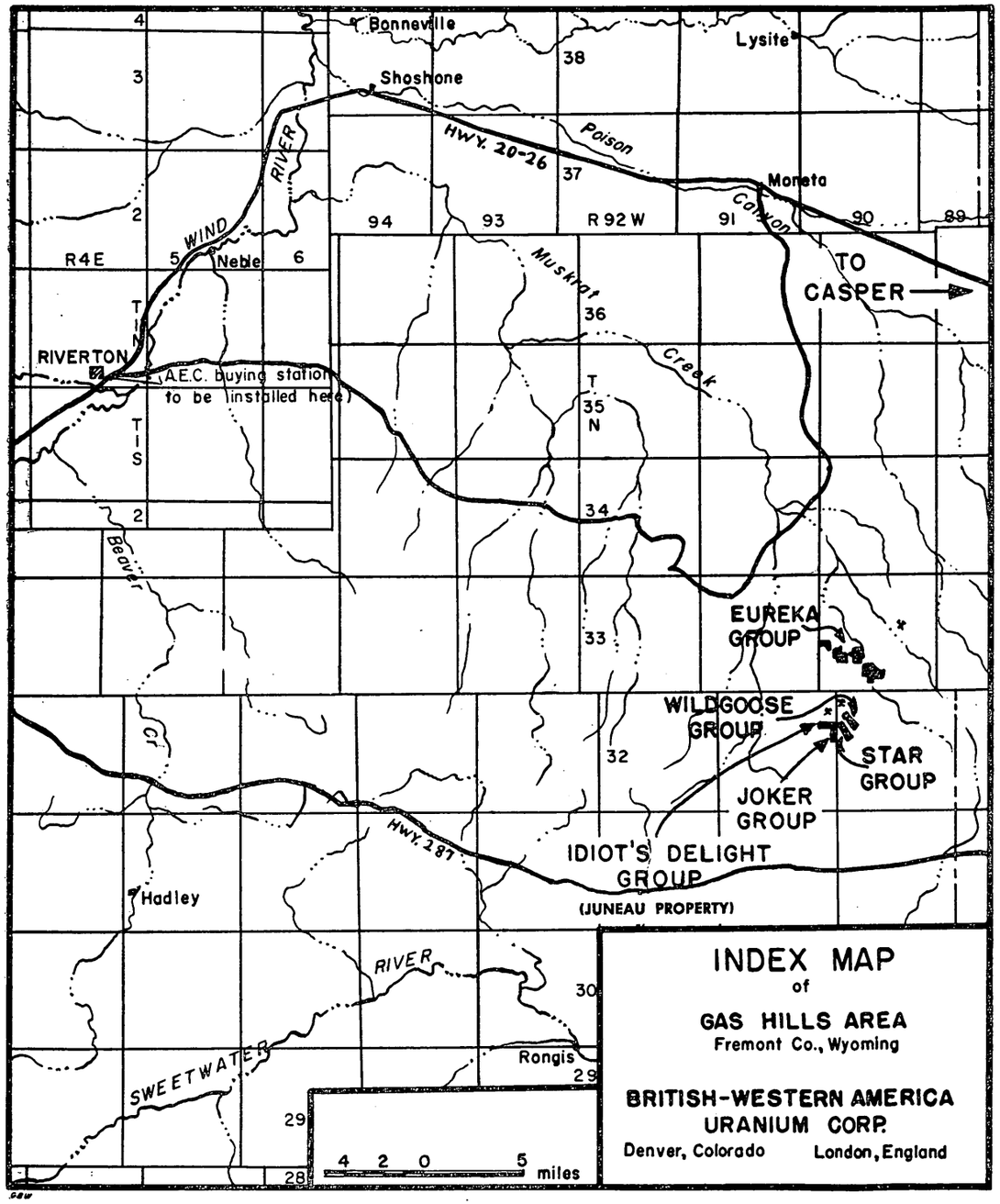
* See description of warrants on page 17.

MANAGEMENT

The names and addresses of the officers and directors of the Corporation are as follows:

Name	Address	Office
Edward Stuart-Hunt	Leadenhall Bldgs. No. 1 Leadenhall London EC 3, England	President, Director
George C. Heikes	P. O. 1202 Los Altos, California	Executive Vice President, Director





Name	Address	Office
George W. Barnes	C. A. Johnson Bldg. Denver, Colorado	Vice President, Director
F. J. Kretschmer	C. A. Johnson Bldg. Denver, Colorado	Secretary-Treasurer
Viscount Christopher Addison	10 Angel Court Throgmorton Street London EC 2, England	Director
Ernest S. Baker	C. A. Johnson Bldg. Denver, Colorado	Director
Stephen D. Fuller	39 Broadway New York 6, N. Y.	Director
C. W. Horstmeier	Denver Club Bldg. Denver, Colorado	Director

EDWARD STUART-HUNT, President and Director. Mr. Stuart-Hunt is a London City Solicitor, the Senior partner of the law firm of E. Stuart-Hunt & Co., and a Senior partner of the law firm of Joseph Barrett & Son. Mr. Stuart-Hunt is a director of Chautard & Co. Ltd., Percy Fox & Co. Ltd., Streatham Engineering Co. Ltd., Builders' Merchants (London) Ltd., Torginol Ltd., C. J. Young, Ltd.

GEORGE C. HEIKES, Executive Vice President and Director. Mr. Heikes is a consulting mining geologist with international experience. He received a B.A. Degree from Lehigh University in 1923 and was chief geologist and assistant to the manager of mines of the Polish subsidiary of Anaconda Mining & Copper Company from 1925 to 1934. During World War II he was director of the ~~Mines~~ Zinc Division of the War Production Board and later director of the Aluminum-Magnesium Division of the War Production Board. From 1945 to 1948 he was associated with Ventures Limited of Toronto and some of its subsidiary companies. During 1948 he was a mining geologist with Kennecott Copper Company. From 1949 to 1952 he was with Economic Cooperation Administration as chief of the mining branch of the Mission to Greece and later was chief of the Development Division of the Defense Minerals Production Administration Region III (Europe and Africa). Since April 1953 he has been engaged in private consulting practice in the United States.

GEORGE W. BARNES, Vice President and Director. Mr. Barnes is a partner in the firm of Barnes and Brown, Oil Operators, Denver, Colorado and the owner of the Caribou Cattle Ranch at Nederland, Colorado. He has been engaged in the oil industry as a producer and operator for 20 years and has oil production and a drilling contracting business in the Denver-Julesburg Basin of Colorado.

F. J. KRETSCHMER, Secretary-Treasurer. Mr. Kretschmer is an attorney associated with the law firm of Ernest S. Baker, and has a broad knowledge of oil, gas and mining law. He was formerly on the legal staff of Bay Petroleum Corp.

VISCOUNT CHRISTOPHER ADDISON, Director. Viscount Christopher Addison is a partner of the firm of Dennis, Murphy, Campbell & Co., members of the London Stock Exchange and is a director of Bedford General Insurance Co., Ltd., Newhaven and Seaford Water Co., and Milford Steam Trawling Co., Ltd.

ERNEST S. BAKER, Director. Mr. Baker is an attorney specializing in oil, gas and mining law. He is a member of the board of Pennant Drilling Co., and is Vice President and member of the board of Tomberlin Petroleum Co.

STEPHEN D. FULLER, Director. Mr. Fuller graduated from Harvard College in 1930 with an A.B. degree and attended Harvard Law School. He has been actively engaged in the investment banking business for 24 years, and has been the senior partner of S. D. Fuller & Co. for the past 15 years. He is a director of several industrial corporations. S. D. Fuller & Co. is the principal underwriter herein.

C. W. HORSTMEIER, Director. Mr. Horstmeier has spent his entire business career in the exploration for and production of petroleum. He has broad knowledge in the Rocky Mountain Area and is presently Vice President in charge of Exploration and Development for a major oil company.

The officers and directors have no royalty interest in any of the property or contracts transferred to the Corporation.

TRANSACTIONS WITH PROMOTERS

In payment for properties assigned to the Corporation and for services rendered, the Corporation has issued shares as follows:

Viscount Addison, 100 shares; Ernest S. Baker, 100 shares; George W. Barnes, 34,850 shares; Ralph O. Brown, 34,850 shares; Stephen D. Fuller, 100 shares; George C. Heikes, 100 shares; C. W. Horstmeier, 100 shares; Edward Stuart-Hunt, 5,000 shares; Joseph Rumsey, 24,800 shares; Bill J. Angelos, 9,500 shares; and Mohawk Uranium Corp., 7,500 shares, totaling in the aggregate 117,000 shares.

Except as set forth in the Offering Brochure, no director, officer, promoter or affiliate has any direct or indirect material interest by security holdings, contracts, options or otherwise in the Corporation or in any property proposed to be acquired or operated by the Corporation or in any properties whose value would be enhanced by operations of the Corporation on its properties.

DESCRIPTION OF CAPITAL STOCK

The only class of capital stock authorized is Common Stock, par value $0.25 per share.

The holders of the Common Stock are entitled to receive such dividends as may be declared by the Board of Directors pursuant to the laws of the State of Colorado and are entitled to one vote per share at all stockholders meetings. There are no limitations in any indentures or other agreements on the payment of dividends. The shares of Common Stock are fully paid and non-assessable. In the event of liquidation the net assets of the Corporation are distributable

The mining contract involves the following considerations:

Issuance of 9,500 shares of Corporation stock to Bill J. Angelos and 7,500 shares of stock to Mohawk Uranium Corporation; the cash payment of $7,500 of which $1,000 has been paid and the balance of $6,500 due March 15, 1955. The Corporation will realize 50% of the net profits of the operation after deduction of the mining expenses and 15% royalty.

Wray Mesa Group

Consisting of 51 unpatented mining claims located in Sections 4, 5, 8, 9, 16 and 17 of Township 46 North, Range 19 West, Montrose County, Colorado.

This property comprises 11 Polecat, 10 Hotrock and 30 Boomer, totaling 51 mining claims of 20 acres each, which are located in the Paradox Valley area of Montrose County, Colorado, 56 miles from Moab, Utah. This property is 6500 feet above sea level, and the ore horizon occurs in the Salt Wash member of the Morrison Formation. Exploratory work has been on only one of the claims, the Polecat No. 1. All discovery cuts have been completed. The property was examined by Mr. Frank H. MacPherson, Mining Engineer, Grand Junction, Colorado. Samples were taken by Mr. A. J. Watson, Mining Engineer, Grand Junction, Colorado. In his report of October 2, 1954, Mr. MacPherson gave the results of Mr. Watson's orientation samples which gave a general idea of the character of the mineralization. Thickness will have to be determined by systematic core drilling. Five samples assayed from .07% to 0.34% U_3O_8 and 0.24% to 1.26% V_2O_5. An additional selected sample representing a thickness of ½ inch of the mineralized layer assayed 1.25% U_3O_8 and 1.40% V_2O_5.

Because of the profitable mining operations to the north and south of the property and mineralization observed, Mr. MacPherson recommended five thousand feet of drilling on this group. Fortunately the mineralized horizon is relatively shallow and can be tested by wagon drilling.

The Corporation has purchased this group of 51 unpatented mining claims from Edward Wales and George E. Wales of Mesa County, Colorado. The claims are subject to a royalty of 12½% payable to George E. Wales, Edward Wales and Jack Smith.

Abajo Group (Rim and Manti Groups)

This property consists of 15 unpatented mining claims of 20 acres each, located six miles northwest of Monticello, Utah, and four miles west of Highway 160. In his report dated October 2, 1954, Mr. Frank H. MacPherson was of the opinion that since the Dakota Formation outcrops on the surface, drilling to reach the Salt Wash Member of the Morrison Formation would require 500 feet or more. He did not recommend any drilling. The property will, therefore, be held for future disposition. If ore is later found in the immediate vicinity of this property, the Corporation might then decide to investigate it by drilling.

This property was assigned to the Corporation by George W. Barnes and Ralph O. Brown of Denver, Colorado who paid $2,000 and received 8,000 shares of stock for assigning to the Corporation. Mr. Barnes is an officer and a director of the Corporation.

The Corporation has a mining contract on this group, which comprises the Star claims Nos. 11 through 15, and the Tom claims Nos. 10 through 16, making a total of 12 mining claims.

Under the terms of the mining contract, the Corporation agrees to spend up to $4,000 on exploratory work in 1955 and if commercial ore bodies are found, to commence operations and under the same terms and conditions as set forth above with respect to the Wild Goose Group.

The mining contract is for a period of five years from the 27th day of November, 1954, and as long thereafter as commercial ore is being produced or development work is being diligently prosecuted.

Joker Group (Gas Hills Area)

9 unpatented mining claims located in Sections 13 and 24, Township 32 North, Range 91 West and Section 18, Township 32 North, Range 90 West, Fremont County, Wyoming.

The Corporation has a mining contract on this group which is comprised of the Joker claims Nos. 1 through 9, a total of nine claims. These claims join the Star Group on the east. The north boundary of the Joker Group joins the Idiot's Delight Group. The Number 1 Joker claim is about eight hundred feet southeast of the Juneau property. The Joker claims, by reason of their proximity to the Juneau property and their situation with regards to the general trend of mineralization, are favorably located.

Under the terms of the mining contract, the Corporation agrees to spend up to $4,000 on exploratory work in 1955 and if commercial ore bodies are found, to commence mining operations under the same terms and conditions as set forth above with respect to the Wild Goose Group and the Star Group.

The mining contract is for a period of five years from the 8th day of December, 1954, and as long thereafter as commercial ore is being produced or that development work is being diligently prosecuted.

Juneau Property, Idiot's Delight Group (Gas Hills Area)

The Corporation has acquired a mining contract on the Idiot's Delight Group consisting of eight unpatented claims located in Section 12, Township 32 North, Range 91 West in the Gas Hills Area of Fremont County, Wyoming. To date, two exposures of ore beneath one to four feet of overburden have been determined by bulldozer cuts.

A shipment of eight tons of ore from the Corporation's Juneau property has been made to the Vitro Chemical Corporation of Salt Lake City, Utah. A second shipment of nine tons of ore has been made to the Atomic Energy Commission Buying Station at Edgemont, S. D.

The possibility of developing a sizeable tonnage of commercial ore on these claims is promising, as several mineralized horizons have already been disclosed in the general area. As soon as weather conditions permit the stripping of the mineralized zone will be recommenced.

proportionately among the holders of the Common Stock in accordance with their respective holdings.

There are no preemptive rights to purchase the Common Stock other than the right given to the Underwriters and management to purchase 150,000 stock purchase warrants as described immediately below.

DESCRIPTION OF WARRANTS

150,000 stock purchase warrants (hereinafter called "Warrants") are authorized. 75,000 of these are to be issued to the Underwriters or their designees and the remaining 75,000 to the Corporation's officers and employees in the discretion of the management. Each warrant will cost one cent and will entitle the holder thereof to purchase one share of the Common Stock of the Corporation at $1.00 per share. The warrants will not be exercisable until a date thirteen months following the conclusion of the Public Offering of the Corporation's shares hereunder, and will be exercisable thereafter until the expiration date five years from the exercise date, after which time they become null and void. The warrants provide that no transfer or assignment of them or of the rights represented by them can be made for a period of thirteen months next following the date of issue, except that nothing in the warrants shall prevent their assignment or transfer by operation of law to the executor, administrator or other personal representative of the person in whose name they are initially registered. The warrants contain provisions designed to protect the holders thereof against dilution through recapitalization, consolidation, sale of assets, etc.

The Corporation agrees to file a Notification, pursuant to the Securities Act of 1933 and the rules and regulations thereunder, with the Securities and Exchange Commission, upon the expiration of twelve months from the issue date of the warrants covering the 150,000 shares of stock required upon exercise of such warrants before such warrants are assignable or exercisable.

LITIGATION

There are no legal actions pending or judgments entered against the Corporation and to the knowledge of the Corporation no legal actions against it are threatened.

TITLE OPINIONS

Legal matters pertaining to the claims and leases on the Colorado Plateau and in the State of Utah have been passed on for the Corporation by Mr. Frank L. Seymour of the law firm of Massa & Seymour, Grand Junction, Colorado; for the claims and leases in the State of Wyoming, by Mr. Ernest S. Baker of the law firm of Ernest S. Baker, C. A. Johnson Building, 509 17th Street, Denver, Colorado. In their respective opinions and from the records examined, no adverse claims or interests were indicated. Titles based on acquisition of possessory right upon the public domain by location of an unpatented lode mining claim are subject to hazards. The Corporation does not make any warranty or representation as to the validity or marketability of its title to any properties mentioned in this circular. From the records examined, no adverse claims or interests are indicated. The Corporation recog-

nizes that remedial or defensive actions may be required regarding titles but no such action is apparent at this offering.

UNDERWRITING

The Underwriters named below have entered into a firm Underwriting Agreement with the Corporation wherein the Corporation has agreed to sell and the Underwriters have agreed, subject to the terms and conditions of the said Underwriting Agreement, to purchase or find purchasers for the 298,400 shares of the Common Stock of the Corporation referred to herein in the respective amounts set forth below.

The obligation of the Underwriters to purchase this Common Stock is subject, among other things, to the performance or fulfillment of certain commitments and conditions specified in the Underwriting Agreement to be fulfilled or complied with by the Corporation at, or prior to, the closing date therein or as extended by the Underwriters. The Corporation has agreed to qualify the stock issue and the issue of warrants and use its best efforts for qualification in various states. In addition, the Underwriters have the right to purchase 75,000 warrants as set forth in a preceding paragraph, their expense of this underwriting reimbursed up to $10,000, the right of first refusal on any other underwriting for stock by the Corporation and to name one director on the Corporation's Board of Directors for a five year period. The foregoing does not propose to be a complete statement of the terms and provisions of the Underwriting Agreement and reference is made to such contract for further terms and provisions. A copy thereof is on file with the Underwriters and available for examination during the usual business hours.

Name	Address	Number of Shares to be Purchased or Sold
S. D. Fuller & Co.	39 Broadway, New York, N. Y.	253,640
Vermilye Bros.	30 Broad Street, New York, N. Y.	44,760

The Underwriters are offering this Common Stock to the public at the offering price of One ($1.00) Dollar per share, and to dealers at such price less a concession or commission of 10 cents per share with the right to each dealer to purchase one warrant as described above for each 12½ shares sold by him.

COUNSEL

Legal matters in connection with the shares of Common Stock covered by this Offering Brochure will be passed upon by Ernest S. Baker, Esq., 327 C. A. Johnson Building, Denver, Colorado, and Leo W. Kennedy, 324 C. A. Johnson Building, Denver, Colorado, for the Corporation, and by Messrs. Heywood, Benedict and Hurry, 49 Wall Street, New York 5, N. Y. for the Underwriters.

BRITISH WESTERN AMERICA URANIUM CORPORATION

by GEORGE W. BARNES,
Vice President.

north of the discovery recently reported by the Atomic Energy Commission on the Bull Rush Group. The property is 6,400 feet above sea level, all in the Wind River formation.

Favorable scintillometer readings and surface mineralization show on the south central part of the Eureka Group. Shallow drilling, drag line, or bulldozer work will be used to prospect these claims. No work has been done to date on this property other than the initial discovery cuts and the scintillometer observations mentioned above.

A systematic program for exploration is planned for this property. In the meantime, considerable valuable information, which will be helpful to the Corporation, is being accumulated by the government agencies at work in this area.

Dr. Warren W. Longley, Professor of Geology at the University of Colorado, Boulder, Colorado, has recommended an expenditure of $4,000 for bulldozing areas which show favorable scintillometer readings. Thereafter, shallow wagon drilling will be done to indicate the shape, depth, and approximate grade of the mineralization, if any.

The Corporation has an option to purchase this group of 34 unpatented mining claims from Messrs. C. M. Enloe and C. M. Massey of Moneta, Wyoming. The total consideration is $36,680 plus 15% royalty to Enloe and Massey.

Wild Goose Group (Gas Hills Area)

12 unpatented mining claims located in Sections 7, 8, 17, and 18, Township 32 North, Range 90 West, Fremont County, Wyoming.

The Corporation has a mining contract on this group which comprises the Wild Goose Nos. 1 through 8, and the Tom Nos. 25 through 28, making a total of 12 mining claims. These claims are favorably located and several mineralized outcrops have been confirmed. Under the terms of the mining contract, the Corporation agrees to spend up to $7,500 on exploratory work. If commercial ore bodies are found, the Corporation will commence mining operations, and has agreed to share equally with the actual owners in the net profits from ore proceeds after mining costs and 14% royalty have been deducted.

The mining contract provides that exploratory work shall commence within the year 1955, and is for a period of five years from the 24th day of November, 1954, and as long thereafter as commercial ore is being produced, or that development work is being diligently prosecuted.

These claims are located one-half mile south of the Green River Oil and Uranium Corporation mine, one-fourth mile southeast of the Upetco mine and one mile due east of the Mountain Mesa Mining Company mine.

Star Group (Gas Hills Area)

12 unpatented mining claims located in Sections 7 and 18, Township 32 North, Range 90 West and Section 12, Township 32 North, Range 91 West, Fremont County, Wyoming.

The North boundary is approximately one and one-eighth miles due south of the Green River Oil and Uranium Corporation's mine, and approximately five-eighths of a mile south of the Upetco mine. The Star claims are contiguous to the Idiot's Delight Group, and are within one-quarter mile of the Juneau property.

The Gas Hills Area of Fremont County, Wyoming

New discoveries of uranium ore have been made in 1954 in the Gas Hills Area of the Wind River Basin of central Wyoming. This district lies midway between Casper and Riverton and is about 31 miles to the south, over a dirt road, from Moneta which is located on United States Highway 20. The nearest ore buying depot of the Atomic Energy Commission is in Riverton, a distance of approximately 40 miles.

The mineralization of autunite, liebigite, uranophane and other yellow colored oxidized uranium minerals occurs in coarse, loosely compacted sandstone lenses in the Wind River formation of Paleocene age. The central part of the Wind River Basin consists of alternate layers of sandstone and shale. (The sandstones were formed in ancient stream channels filled with sand when the streams meandered to other courses in the river flood plain deposit.)

The Wind River formation is underlain by older formations of Cretaceous, Jurassic and Triassic age which have been intensely folded and faulted and then eroded before the Wind River formation was deposited.

Overlying the Wind River formation are beds of volcanic ash and silt of the White River formation of Oligocene age, thought to have come from volcanic eruptions in the Yellowstone Park area. Some geologists believe that the uranium may have come from this volcanic ash, leached by rain water and subsequently redeposited in favorable sandstone channels in the underlying Wind River formation. In any case, the Lucky Mc, Metallics Unlimited, Upetco, Green River and other deposits are in the Wind River formation as are the Wyoming properties of this Corporation.

Lucky Mc mine is located 2 miles East of the Corporation's Eureka group and is an open pit operation. Mineralized indications from the Corporation's Juneau property located on the Idiot's Delight Group have been found to commence at the surface and possibly recur in separate strata to a depth of approximately 50 feet.

The Corporation has options to purchase outright the following mining claims in the Gas Hills area:

Eureka Group	35 claims

and has mining contracts on the following groups of claims:

Wild Goose Group	12 claims
Star Group	12 claims
Joker Group	9 claims
Idiot's Delight Group	8 claims

Eureka Group (Gas Hills Area)

Located in Sections 19, 20, 21, 27, 28 and 33, Township 33 North, Range 90 West, Fremont County, Wyoming.

These comprise thirty-four unpatented mining claims, the eastern boundary of which lies approximately two miles west of the Lucky Mc mine, and approximately two miles due west of the Vitro mine. The central part of the Eureka Group lies approximately one-half mile

BRITISH WESTERN AMERICA URANIUM CORPORATION

STATEMENT OF ASSETS AND UNRECOVERED PROMOTIONAL, EXPLORATORY AND DEVELOPMENT COSTS

February 1, 1955

	Shares of Stock		
Current Assets:			
Cash			$16,500.00
Mining Claims and Options:			
Mining Claims:			
Wray Mesa	24,800	$ 7,500.00(1)	
Abajo	8,000	2,000.00(2)	
Option on Mining Claim:			
Eureka	25,000	11,500.00(3)	
Mining Contracts			
Juneau	17,000	7,500.00(4)	
Wild Goose	32,100	(5)	
Star	8,800	(6)	
Joker	800	(7)	
			28,500.00
Unrecovered promotional, exploratory and development costs	500		15,000.00
Total shares	117,000	Total Assets	$60,000.00

(1) Purchased by Joseph Rumsey for which he was issued 24,800 shares of stock, cash not reimbursable.

(2) Purchased by Barnes and Brown for which they were issued 8,000 shares of stock, cash not reimbursable.

(3) Purchased by Barnes and Brown for which they received 25,000 shares of stock. $11,500 paid and balance of $25,180 due March 1, 1955.

(4) Contract price of $7,500 and 7,500 shares of stock to Mohawk Uranium Corporation and 9,500 shares of stock to Bill J. Angelos. $1,000.00 paid by Barnes and Brown, balance of $6,500.00 due March 15, 1955.

(5) "This mining contract was assigned to the Corporation by Barnes and Brown for 32,100 shares of stock and 4,900 of said shares were transferred to E. Stuart-Hunt by Barnes and Brown for aid in negotiation and acquisition. Corporation is to expend $7,500 on exploration work if commercial ore is found. Corporation will commence mining operations and receive 50% of net profits after deduction of mining costs and 14% royalty".

(6) This mining contract was assigned to the Corporation by Barnes and Brown for which they received 8,800 shares of stock for negotiation and acquisition. The Corporation is to expend up to $4,000 on the same terms as Wild Goose (see Footnote 5).

(7) This mining contract was assigned to the Corporation by Barnes and Brown for which they received 800 shares of stock for negotiation and acquisition. The Corporation is to expend up to $4,000 on the same terms as Wild Goose and Star Claim (see Footnotes 5 and 6).

STATEMENT OF LIABILITIES

The Corporation has a liability of $40,000 as stated in item 10 under Use of Proceeds on page 14 as follows:

Notes Payable:		
Barnes and Brown (Non-interest bearing, on demand)	$15,000.00	
E. Stuart-Hunt (Non-interest bearing, on demand)	25,000.00	
		$40,000.00
Contract Payable:		
Mohawk (Juneau, Idiot's Delight)		6,500.00
Total Liabilities		$46,500.00

BRITISH WESTERN AMERICA URANIUM CORPORATION

STATEMENT OF CAPITAL SHARES

Common Stock—Par Value $0.25 per share			*Shares*	*Shares*
Authorized				600,000
Outstanding:				
Issued for:				
1. Services			500	
2. Property				
Claims:				
Eureka	34 claims	25,000		
Wray Mesa	51 claims	24,800		
Abajo	15 claims	8,000		
Mining Contracts:				
Juneau (Idiot's Delight)	8 claims	17,000		
Wild Goose	12 claims	32,100		
Star	12 claims	8,800		
Joker	9 claims	800	116,500	
			117,000	117,000
Reserved for Warrants				150,000
Unissued				333,000
			Total Shares	600,000

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS

September 8, 1954 — February 1, 1955

RECEIPTS:			
Loan from E. Stuart-Hunt	$25,000.00		
Loan from Barnes and Brown	15,000.00		$40,000.00
DISBURSEMENTS:			
Eureka Claims	$ 7,500.00		
Juneau	1,000.00	$ 8,500.00	
EXPLORATION, DEVELOPMENT AND ORGANIZATION		15,000.00	23,500.00
CASH IN BANK			$16,500.00

To date the Corporation has mining leases on 41 unpatented mining claims and has options to purchase 35 unpatented mining claims in the Gas Hills area of Fremont County, Wyoming. The Corporation owns 51 unpatented mining claims on the Wray Mesa in the Paradox Valley area of Montrose County, Colorado and 15 unpatented mining claims in the Abajo Mountain area of San Juan County, Utah.

All claims involved total 142 covering approximately 2,600 acres. It should be noted that $100 per claim assessment work is required per year on all claims held by the Corporation.

Market for Uranium

At present the sole market for uranium ore in this country is the United States Government, operating through the Atomic Energy Commission, or its authorized purchasers. The announced policy of the Atomic Energy Commission is to expend every effort to assist in the production of uranium. Although the Corporation has no assurance with respect to future Atomic Energy Commission policy, it is anticipated that the present policy will continue and that the Corporation will have no difficulty in disposing of its uranium ore.

The Atomic Energy Commission has established a guaranteed minimum price schedule for uranium ores for the period March 1, 1951 through March 31, 1962, as set forth in its Domestic Uranium Program Circular 5, as revised, and Circular 6. Under the minimum price schedule now in effect, payments are made by the Atomic Energy Commission for ores assaying 0.10% or more of U_3O_8 (1% equaling 20 pounds of Uranium Oxide (U_3O_8) per ton of ore). Payments range from $1.50 per pound of U_3O_8 for ores assaying 0.10% of U_3O_8 (2 pounds per ton) to $3.50 per pound for ores assaying 0.20% (4 pounds per ton) and more. In addition, premium payments are made at the rate of 75¢ per pound for each pound of U_3O_8 in excess of four pounds found in each ton of ore and an additional premium of 25¢ per pound for each pound in excess of 10 pounds of U_3O_8 found in each ton of ore.

In addition to the premium payments, the Atomic Energy Commission gives a development allowance of 50¢ per pound of contained U_3O_8 for ores assaying 0.10% or more, in recognition of the expenditures necessary for maintaining and increasing developed reserves of uranium ores. Sellers accepting this allowance must agree to spend such funds for the development or exploration of their properties and sellers delivering more than 1,000 tons per calendar year must submit evidence of such expenditures to the Atomic Energy Commission.

In most uranium ores mined on the Colorado Plateau some vanadium oxide (V_2O_5) is found, which is also purchased to a limited degree by the Atomic Energy Commission. The announced price for V_2O_5 is 31¢ per pound up to but not exceeding 10 pounds of V_2O_5 for each pound of U_3O_8 found in each ton of ore. No allowance has been set for V_2O_5 in excess of 10 pounds for each pound of U_3O_8.

The Atomic Energy Commission allows 6% or 120 pounds of lime per ton of ore without penalty. Where the lime content exceeds 6%, a penalty of $1.00 per ton base charge plus 30¢ for each additional 1% (20 pounds) or fraction thereof of lime is imposed. These penalty payments are deducted by the Atomic Energy Commission from the purchase price of the uranium ores.

A haulage allowance of 6¢ per ton mile for the transportation of ore is paid by the Atomic Energy Commission up to a maximum of 100 miles. Each of the Corporation's properties is within 100 miles of an ore buying station.

298,400 Shares

British Western America Uranium Corporation

COMMON STOCK

(Par Value $0.25 Per Share)

HISTORY AND BUSINESS

British Western America Uranium Corporation (hereinafter called the Corporation) was incorporated in Colorado on September 8, 1954 to engage initially in the acquisition, exploration, mining and operation of uranium and other mineral properties in the States of Utah, Colorado and Wyoming. Its main office is located in the C. A. Johnson Building, Denver, Colorado.

The Corporation was organized by Mr. Ralph O. Brown and his partner Mr. George W. Barnes, oil operators, producers and drilling contractors, doing business as Barnes and Brown, with operations in the Denver-Julesburg Basin of Colorado.

Messrs. Barnes and Brown, assisted by Mr. William Jack Smith of Grand Junction, Colorado, obtained their first group of claims, hereinafter referred to collectively as the "Wray Mesa Group" in the Paradox Valley of Montrose County, Colorado. Later other properties were acquired in San Juan County, Utah and Fremont County, Wyoming.

A desire to participate in the uranium industry of the United States was expressed to Mr. Barnes by Mr. Edward Stuart-Hunt of London, England. The idea of a joint British-American venture evolved therefrom and the Corporation was named the British Western America Uranium Corporation. Mr. Stuart-Hunt was invited to become President and came to the United States to inspect the various properties, and assist with the final corporate plans.

During Mr. Stuart-Hunt's visit to the United States in October and November, 1954, the Corporation was extremely fortunate in acquiring the services of Mr. George C. Heikes, geologist and mining consultant of international repute, as Executive Vice President.

Mr. Heikes and Mr. Barnes visited the new Gas Hills area of Fremont County, Wyoming, and contracted to purchase a group of claims known as the Eureka Group consisting of 34 unpatented mining claims situated approximately two miles west of the Lucky Mc mine and approximately one and one-half miles northwest of the Vitro mine. They then obtained mining leases on the Wild Goose Group consisting of 12 unpatented mining claims and the Star Group consisting of 12 unpatented mining claims, both of which offset the claims on which the Green River Oil & Uranium Corporation mine and the Upetco mine are located. Subsequently, Mr. Barnes obtained mining leases on the Joker Group consisting of 9 unpatented mining claims and the Idiot's Delight Group consisting of 8 unpatented mining claims.

Exploration of the Wild Goose, Star, Idiot's Delight and Joker Groups will commence in the early part of 1955.

BRITISH WESTERN AMERICA URANIUM CORPORATION

SCHEDULE OF EXPLORATION, DEVELOPMENT AND ORGANIZATION COSTS

September 8, 1954 — February 1, 1955

Payroll	$ 1,191.00
Office Rent	415.00
Telephone and Telegraph	1,315.00
Office Fixtures and Decorating	1,186.03
Stationery	97.07
Miscellaneous	416.86
Incorporation Fees	233.10
Filing Fees	79.00
Field Trip Expenses	1,640.02
Engineering and Geological Fees	3,464.52
Claim Development	510.00
Attorney Fees (Titles)	1,008.69
Maps	224.51
Travel	3,219.20
	$15,000.00

on the sale of the warrants or the shares issuable on their exercise may be deemed additional underwriting compensation to the Underwriters and consideration to the organizers and management, and be a capital gain.

This Public Offering will place in the hands of others than the organizers and Underwriters, 298,400 shares of common stock at $1.00 per share or $298,400, which is 71% of the 415,400 shares of stock to be outstanding at the close of the public issue. The organizers and Underwriters will hold 29% or 117,000 shares of the 415,400 shares issued for which they have contributed services, property and mining contracts, for a cash consideration of $28,500. Further, in the event the organizers and Underwriters exercise their right to purchase the 150,000 shares by exercising the warrants, the Public will hold 53% or 298,400 shares and the Organizers and Underwriters will hold 47% or 267,000 shares for which they will have paid $151,500 for shares and warrants in addition to the $28,500 cash for property, mining contracts and their services for a total of $180,000 and their services.

INTRODUCTORY STATEMENT

The search for and development of potential mineral bearing properties is an enterprise involving risk. This holds true for the relatively new, but now widespread, hunt for uranium. Under existing conditions there is no competition or marketing problem since the United States Government is the willing, exclusive buyer at established prices, dependent on the quality of the ore. The uncertainties lie in the problem of locating the mineral in commercially productive quantities.

Extensive tests may establish the existence of proven quantities of uranium ore. Until the presence of ore can be so established, however, the value of any particular property must be more or less arbitrarily determined. Production history, proximity to known ore deposits, favorable geological formations and test drilling may, separately or in combination, indicate good mineral potentials.

However, no claim or representation is made as to ore reserves on the Corporation's properties.

The activities of the British Western America Uranium Corporation at this time are in part financing the purchase of properties and in part exploration and surface clearance of the Juneau property in the Gas Hills area of Wyoming. Two shipments have been made from the Juneau property to date. A shipment of eight tons to the Vitro Chemical Corporation of Salt Lake City, Utah and a shipment of nine tons to the Atomic Energy Commission buying station at Edgemont, South Dakota for a total of seventeen tons. The proceeds of this issue are proposed to be used for meeting obligations under contracts to purchase properties to explore the potentialities of the Corporation's claims and the acquisition of other properties. The officers and directors of the Corporation will serve without salary or other compensation until such time as the Board of Directors shall determine that the revenue of the Corporation shall have reached a figure so as to permit payment commensurate with their respective services.

150,000 stock purchase warrants are authorized, 75,000 may be purchased by the Corporation's officers and employees in the discretion of the management and 75,000 may be purchased by the Underwriters. Each warrant will cost $0.01 and will entitle the holder thereof to purchase stock at $1.00 per share. The warrants will not be exercisable until thirteen months following the conclusion of the Public Offering of the Corporation's shares hereunder and will be exercisable thereafter until the expiration date five years from the exercisable date, after which they become null and void.

During the life of the right to purchase the 150,000 shares of stock as given by the warrants, the persons holding them are given the opportunity to profit from a rise in the market price of the Corporation's stock at the expense of the stockholders of the Corporation who made the initial investment in the Corporation. During the life of the rights given by the warrants the Corporation may be deprived of a favorable opportunity to obtain additional equity capital if it should be needed for the business. The Corporation would possibly be able to obtain additional equity capital by a public sale of its stock on terms more favorable than those provided in the warrants at any time the holders of the warrants may be expected to exercise them. If such warrants or the shares issuable on the exercise of the warrants are sold at a price in excess of the price received by the Corporation, such profits

No dealer, salesman, or any other person has been authorized to give any information or to make any representations other than as contained in this Offering Brochure in connection with the offer contained herein, and, if given or made, such information or representations must not be relied upon as having been authorized by the Corporation or by the Underwriters. This Offering Brochure does not constitute an offer to sell, or a solicitation of an offer to buy, securities in any state to any person to whom it is unlawful to make such offer in such state.

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BRITISH WESTERN AMERICA URANIUM CORPORATION

298,400 Shares

COMMON STOCK

(par value, $0.25 per share)

Offering Price: $1.00 per share

OFFERING BROCHURE

Dated: February 14, 1955

OFFERING BROCHURE

ENCLOSURE A

298,400 Shares

British Western America Uranium Corporation

(A Colorado corporation)

COMMON STOCK

(Par Value $0.25 Per Share)

Transfer Agent

CORPORATION TRUST COMPANY

15 Exchange Place, Jersey City, New Jersey

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 3 - 1955

OFFERING PRICE: $1.00 Per Share

THESE SECURITIES ARE OFFERED AS A SPECULATION

	Price to Public	Underwriting Discounts or Commissions (1)	Proceeds to the Corporation (2)
Total	$298,400	$52,220	$246,180
Per Share	$1.00	$0.17½	$0.82½

(1) The Corporation, as more fully set forth in the Underwriting Agreement, has agreed that the Underwriters or their nominees may buy stock purchase warrants at $0.01 a warrant evidencing a right to purchase an aggregate of 75,000 shares of Common Stock of the Corporation at $1.00 per share. The Corporation has also agreed to reimburse the Underwriters for their fees and expenses in connection with this issue in an amount not to exceed $10,000. The Underwriters are also entitled to the benefit of certain further provisions for indemnification as set forth in the Underwriting Agreement against certain liabilities under the Securities Act of 1933 or under statute or Common Law. The Underwriters have the right to name one Director of the Corporation.

(2) Exclusive of expenses of the Corporation, estimated at approximately $4,000 and the expenses of the Underwriters referred to above. The officers and directors and employees of the Corporation shall have the right to purchase 75,000 warrants on the same terms as the Underwriters.

THESE SECURITIES ARE OFFERED PURSUANT TO AN EXEMPTION FROM REGISTRATION WITH THE SECURITIES AND EXCHANGE COMMISSION. THE COMMISSION DOES NOT PASS UPON THE MERITS OF ANY SECURITIES NOR DOES IT PASS UPON THE ACCURACY OR COMPLETENESS OF ANY OFFERING CIRCULAR OR OTHER SELLING LITERATURE.

S. D. FULLER & CO.
39 Broadway, New York 6, N. Y.

VERMILYE BROTHERS
30 Broad Street, New York 4, N. Y.

The date of this Offering Brochure is February 14, 1955

QUIT CLAIM MINING DEED

THIS INDENTURE, Made this 17th day of July in the year of our Lord one thousand nine hundred fifty-four, between EDW. WALES, also known as EDWARD WALES, and GEO. E. WALES of the County of Mesa and State of Colorado, parties of the first part, and

George W. Barnes and Ralph O. Brown

of the County of Denver and State of Colorado, parties of the second part;

WITNESSETH, That the said parties of the first part, for and in consideration of the sum of Ten Dollars and other valuable consideration, to them in hand paid by the said parties of the second part, the receipt whereof is hereby acknowledged, have granted, bargained, sold, remised, released and forever quit-claimed, and by these presents do grant, bargain, sell, remise, release and forever quit-claim, unto the said parties of the second part, their heirs and assigns, the following described property, situate, lying and being in Coyote Wash, Wray Mesa Mining District in the County of Montrose and State of Colorado, to-wit:

POLE CAT MINING CLAIM Nos. 1 to 10, inclusive, the location certificates for which were filed for record in the office of the County Clerk & Recorder, Montrose County, Colorado, on May 3, 1954, being document numbers 291572 to 291580, and 291581, respectively, and

POLE CAT MINING CLAIM No. 11, the location certificate for which was filed for record in said office on June 2, 1954, being document number 293172;

BOOMER MINING CLAIM Nos. 1 to 6, inclusive, the location certificates for which were filed for record in said office on May 3, 1954, being document numbers 291589 to 291594, respectively, and

BOOMER MINING CLAIM Nos. 7, and 10 to 30, inclusive, the location certificates for which were filed for record in said office on June 2, 1954, being document numbers 293146 to 293167, respectively;

HOT ROCK MINING CLAIM Nos. 1 to5, inclusive, the location certificates for which were filed for record in said office on May 3, 1954, being document numbers 291584 to 291588, respectively, and

HOT ROCK MINING CLAIM Nos. 6, 7, 9 and 10, the location certificates for which were filed for record in said office on June 2, 1954, being document numbers 293168 to 293171, respectively;

BOOMER MINING CLAIM Nos. 8 and 9, the location certificates for which were filed for record in said office on July 17, 1954, being document numbers 295682 and 295683, respectively and

HOT ROCK MINING CLAIM No. 8, the location certificate for which was filed for record in said office on July 17, 1954, being document number 295684.

All of the foregoing claims being located in Sections 4 and 5, 8 and 9, 16 and 17, Township 46 North, Range 19 West.

The grantors herein reserve to themselves a royalty of ten per cent (10%) payable on the gross proceeds of all ores sold from any of said claims, together with 10% of any bonus or gratuities paid on account of the production of ores therefrom.

TOGETHER with all the dips, spurs and angles, and all the metals, ores, gold and silver-bearing quartz, rock and earth therein, and all the rights, privileges and franchises thereto incident, appendant and appurtenant, or therewith usually had and enjoyed; and all and singular the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining, and the rents, issues and profits thereof; and all the e state, right, title, interest, claim and demand whatsoever, as well in law as in equity, of the said parties of the first part, of, in or to the said premises, and every part and parcel thereof, with the appurtenances.

TO HAVE AND TO HOLD, all and singular, the said premises, together with the appurtenances and privileges thereto incident, unto the said parties of the second part, their heirs and assigns forever.

IN WITNESS WHEREOF, The said parties of the first part have hereunto set their hands and seals the day and year first above written.

Edw. Wales (SEAL)
also known as Edward Wales

Geo. E. Wales (SEAL)

STATE OF COLORADO)
) ss
COUNTY OF M E S A)

The foregoing instrument was acknowledged before me this 17th day of July, 1954, by Edw. Wales, also known as Edward Wales, and Geo. E. Wales.

My Commission expires: OCT. 21, 1954.

Witness my hand and official seal.

EUGENE H. WEST NOTARY PUBLIC MESA COUNTY, COLO.

Eugene H. West
Notary Public

QUIT CLAIM MINING DEED

THIS INDENTURE, Made this 10th day of December in the year of our Lord one thousand nine hundred fifty-four, between GEORGE W. BARNES and RALPH O. BROWN of the County of Denver and State of Colorado, parties of the first part, and BRITISH WESTERN AMERICA URANIUM CORPORATION, a Colorado corporation, party of the second part;

WITNESSETH, That the said parties of the first part, for and in consideration of the sum of Ten Dollars and other valuable consideration, to them in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, have granted, bargained, sold, remised, released and forever quit-claimed, and by these presents do grant, bargain, sell, remise, release and forever quit-claim, unto the said party of the second part, its successors and assigns, the following described property, situate, lying and being in Coyote Wash, Wray Mesa Mining District in the County of Montrose and State of Colorado, to-wit:

POLE CAT MINING CLAIM Nos. 1 to 10, inclusive, the location certificates for which were filed for record in the office of the County Clerk & Recorder, Montrose County, Colorado, on May 3, 1954, being document numbers 291572 to 291580, and 291581, respectively, and

POLE CAT MINING CLAIM No. 11, the location certificate for which was filed for record in said office on June 2, 1954, being document number 293172;

BOOMER MINING CLAIM Nos. 1 to 6, inclusive, the location certificates for which were filed for record in said office on May 3, 1954, being document numbers 291589 to 291594, respectively, and

BOOMER MINING CLAIM Nos. 7, and 10 to 30, inclusive, the location certificates for which were filed for record in said office on June 2, 1954, being document numbers 293146 to 293167, respectively;

HOT ROCK MINING CLAIM Nos. 1 to 5, inclusive, the location certificates for which were filed for record in said office on May 3, 1954, being document numbers 291584 to 291588, respectively, and

HOT ROCK MINING CLAIM Nos. 6, 7, 9 and 10, the location certificates for which were filed for record in said office on June 2, 1954, being document numbers 293168 to 293171, respectively;

BOOMER MINING CLAIM Nos. 8 and 9, the location certificates for which were filed for record in said office on July 17, 1954, being document numbers 295682 and 295683, respectively and

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HOT ROCK MINING CLAIM No. 8, the location certificate for which was filed for record in said office on July 17, 1954, being document number 295684.

All of the foregoing claims being located in Sections 4 and 5, 8 and 9, 16 and 17, Township 46 North, Range 19 West.

The grantors herein reserve to themselves a royalty of ten per cent (10%) payable on the gross proceeds of all ores sold from any of said claims, together with 10% of any bonus or gratuities paid on account of the production of ores therefrom.

TOGETHER with all the dips, spurs and angles, and all the metals, ores, gold and silver-bearing quartz, rock and earth therein, and all the rights, privileges and franchises thereto incident, appendant and appurtenant, or therewith usually had and enjoyed; and all and singular the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining, and the rents, issues and profits thereof; and all the estate, right, title, interest, claim and demand whatsoever, as well in law as in equity, of the said parties of the first part, of, in or to the said premises, and every part and parcel thereof, with the appurtenances.

TO HAVE AND TO HOLD, all and singular, the said premises, together with the appurtenances and privileges thereto incident, unto the said party of the second part, its successors and assigns forever.

IN WITNESS WHEREOF, the said parties of the first part have hereunto set their hands and seals the day and year first above written.

George W. Barnes (SEAL)
George W. Barnes

Ralph O. Brown (SEAL)
Ralph O. Brown

STATE OF COLORADO)
) ss
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 10th day of December, 1954, by George W. Barnes and Ralph O. Brown.

My commission expires: July 29, 1957.

Witness my hand and official seal.

Minetta A. Miller
Notary Public.

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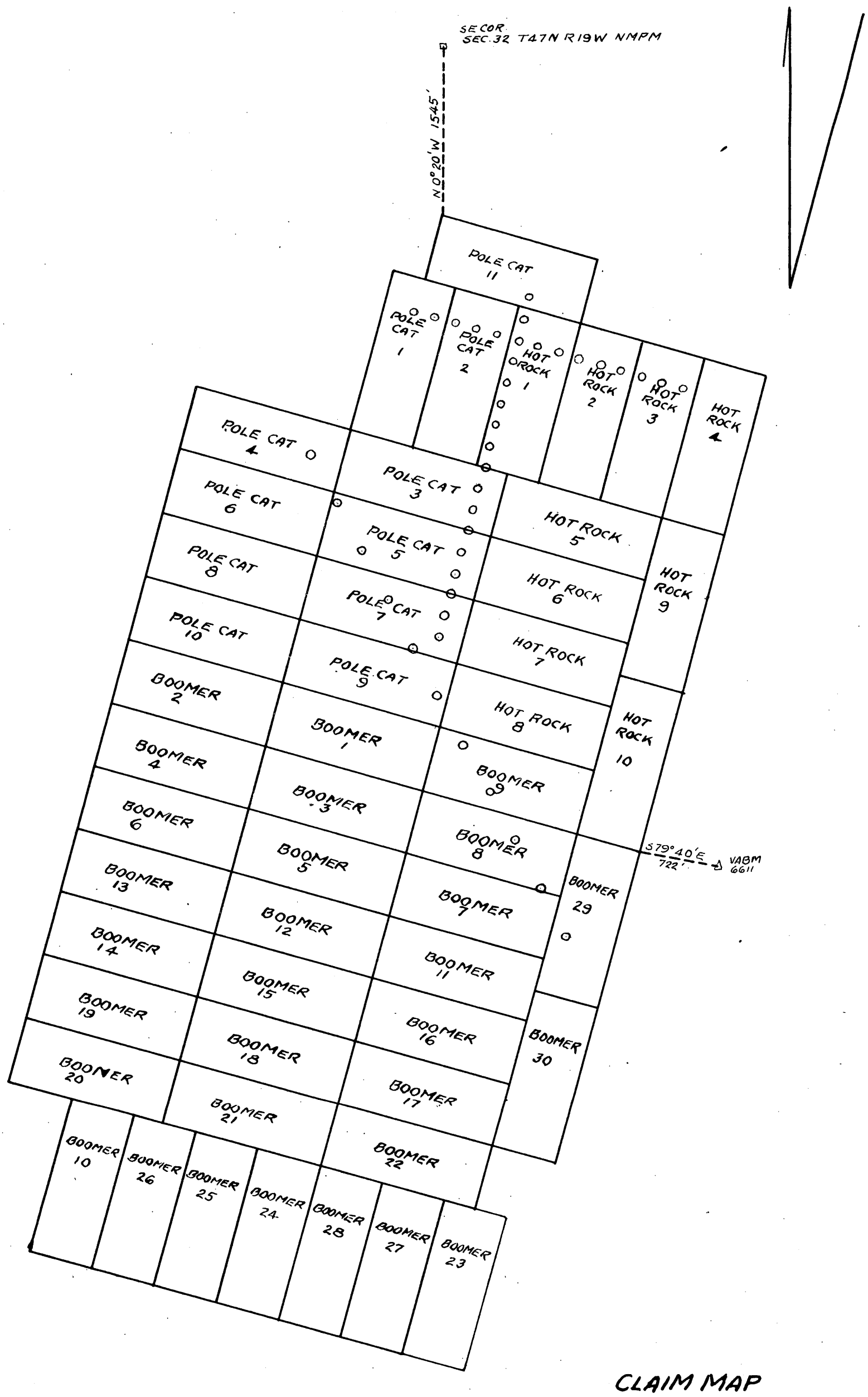
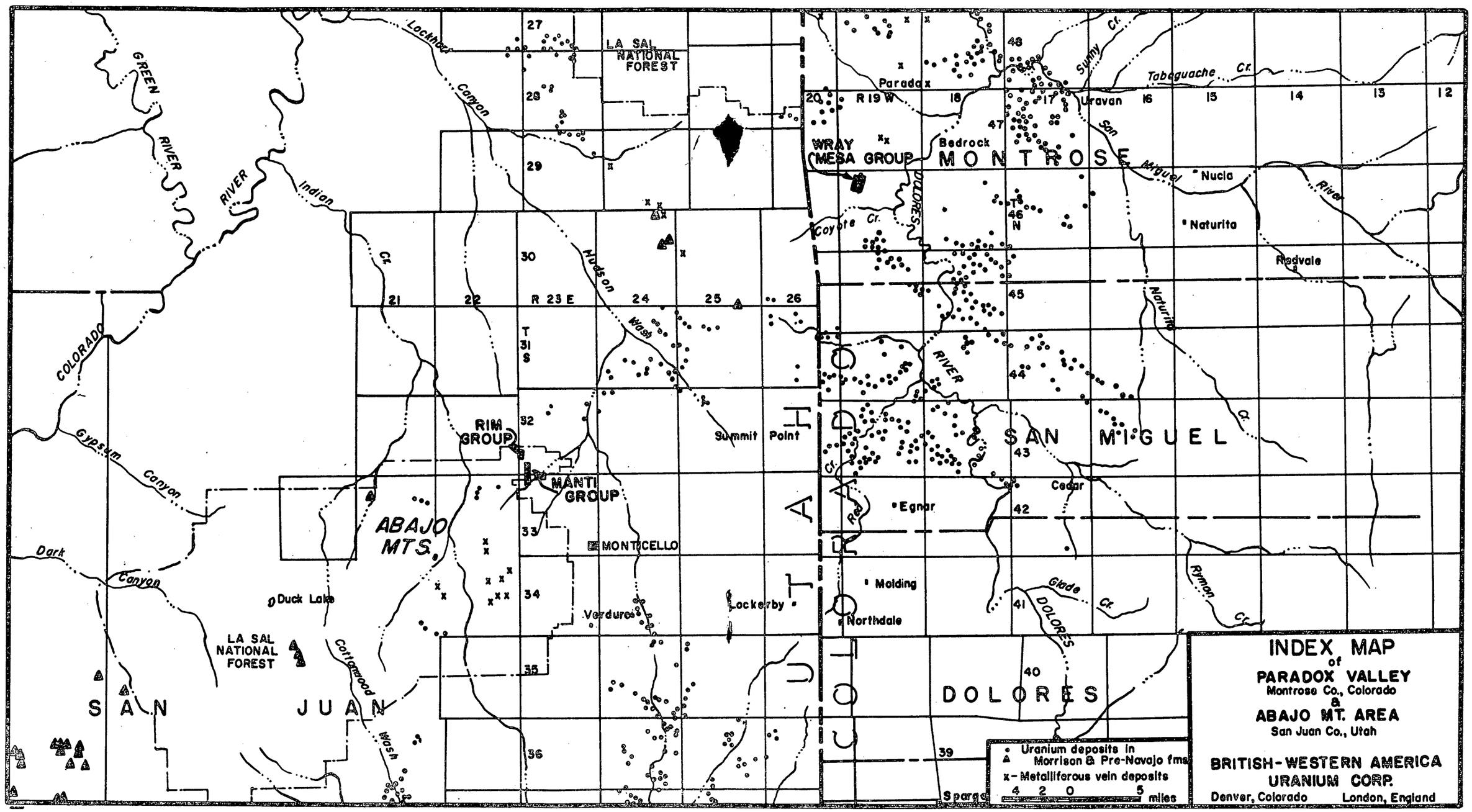


CLAIM MAP
BRITISH WESTERN AMERICA URANIUM CORP.
WRAY MESA GROUP
showing
PROPOSED DRILL HOLES
scale
1" = 1000'
date
FEBRUARY 1955



No implication is intended that the deposits shown were in general individually worked as sources of substantial uranium production.

USE OF PROCEEDS

The proceeds of the sale of stock hereunder will be devoted by the Corporation to the following purposes:

1.	Legal, administration and underwriting expenses, estimated	$ 15,000.00
2.	Explore and develop Juneau property	11,000.00
3.	Complete purchase of Eureka group	25,180.00
4.	Complete purchase of Idiot's Delight group	6,500.00
5.	Explore Star claims per operating agreement with owner, up to	4,000.00
6.	Explore Wild Goose claims as per operating agreement with owner, up to	7,500.00
7.	Explore Wray Mesa claims, up to	5,000.00
8.	Explore Eureka claims, up to	6,000.00
9.	Explore Joker claims, up to	4,000.00
10.	Repay existing loans	40,000.00
11.	Balance to be used for further exploration, surveying and geological prospecting, drilling, mining and the purchase of additional claims or leases when justified in the opinion of the management and for working capital and other general corporation purposes (1) (2)	122,000.00
		$246,180.00

(1) The officers and directors of the Corporation will serve without salary or other compensation until such time as the Board of Directors shall determine that the revenue of the Corporation shall have reached a figure so as to permit payment to said officers and directors commensurate with their respective services.

(2) The Corporation and its Board of Directors reserve the right to change the application of the proceeds described above in the best interest of the Corporation and its stockholders as circumstances may justify or require.

CAPITALIZATION

The capitalization of the Corporation as of the date of this Offering Brochure is as follows:

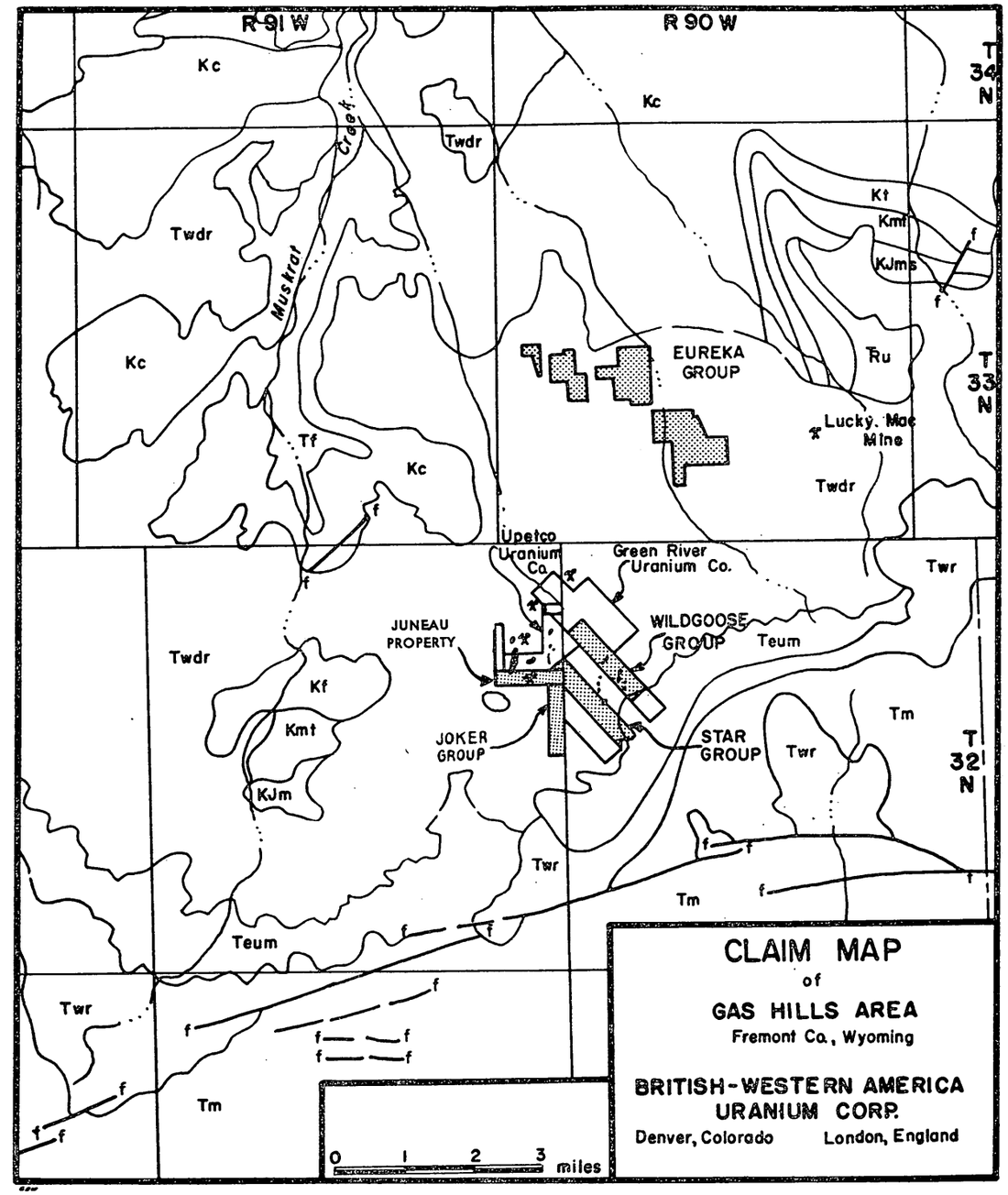
	Authorized	Issued and Outstanding	To be Outstanding
Common Stock (Par Value $0.25 per share)	600,000	117,000	415,400
Warrants*	150,000	—	150,000

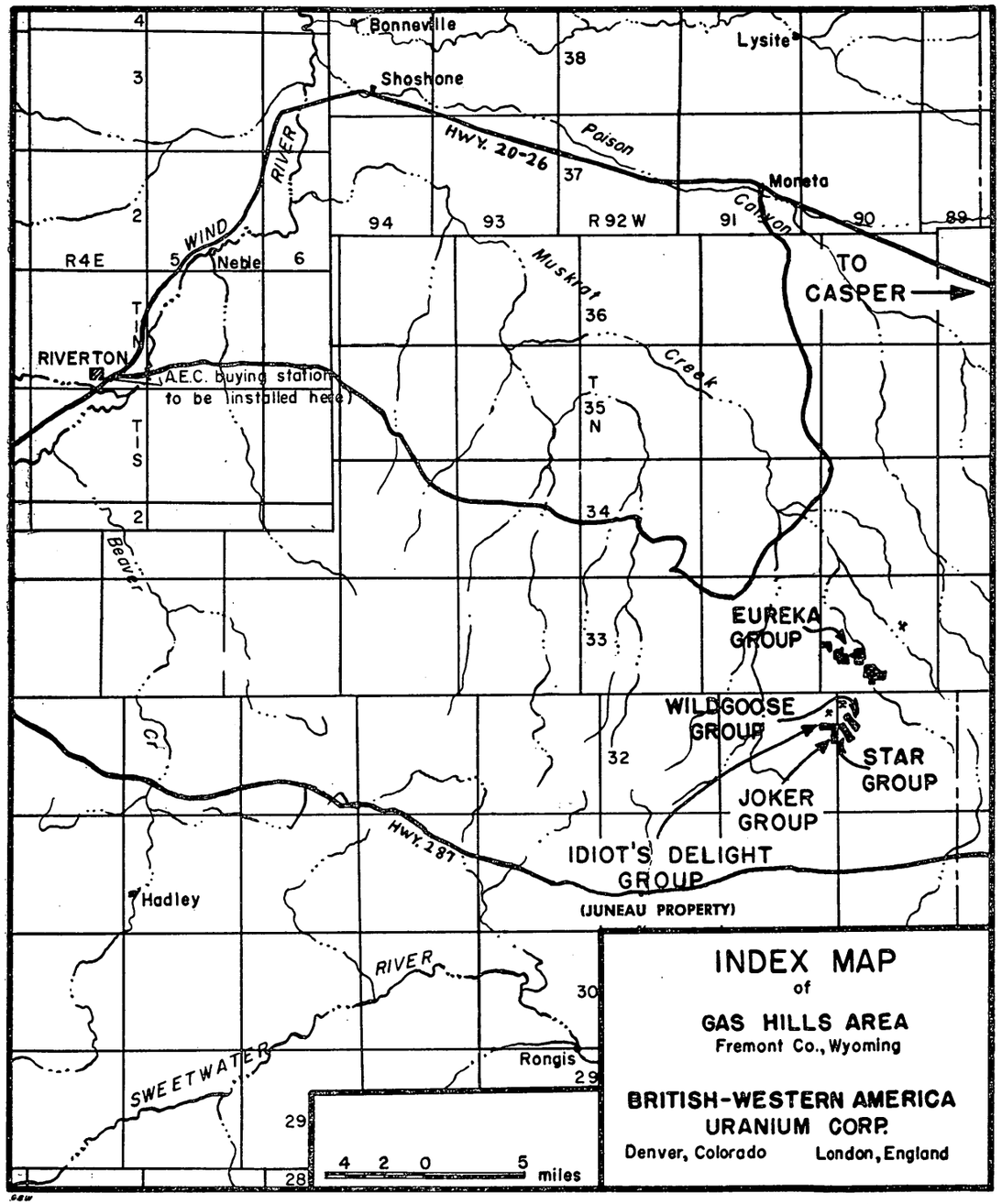
* See description of warrants on page 17.

MANAGEMENT

The names and addresses of the officers and directors of the Corporation are as follows:

Name	Address	Office
Edward Stuart-Hunt	Leadenhall Bldgs. No. 1 Leadenhall London EC 3, England	President, Director
George C. Heikes	P. O. 1202 Los Altos, California	Executive Vice President, Director





Name	Address	Office
George W. Barnes	C. A. Johnson Bldg. Denver, Colorado	Vice President, Director
F. J. Kretschmer	C. A. Johnson Bldg. Denver, Colorado	Secretary-Treasurer
Viscount Christopher Addison	10 Angel Court Throgmorton Street London EC 2, England	Director
Ernest S. Baker	C. A. Johnson Bldg. Denver, Colorado	Director
Stephen D. Fuller	39 Broadway New York 6, N. Y.	Director
C. W. Horstmeier	Denver Club Bldg. Denver, Colorado	Director

EDWARD STUART-HUNT, President and Director. Mr. Stuart-Hunt is a London City Solicitor, the Senior partner of the law firm of E. Stuart-Hunt & Co., and a Senior partner of the law firm of Joseph Barrett & Son. Mr. Stuart-Hunt is a director of Chautard & Co. Ltd., Percy Fox & Co. Ltd., Streatham Engineering Co. Ltd., Builders' Merchants (London) Ltd., Torginol Ltd., C. J. Young, Ltd.

GEORGE C. HEIKES, Executive Vice President and Director. Mr. Heikes is a consulting mining geologist with international experience. He received a B.A. Degree from Lehigh University in 1923 and was chief geologist and assistant to the manager of mines of the Polish subsidiary of Anaconda Mining & Copper Company from 1925 to 1934. During World War II he was director of the ~~Mines~~ Zinc Division of the War Production Board and later director of the Aluminum-Magnesium Division of the War Production Board. From 1945 to 1948 he was associated with Ventures Limited of Toronto and some of its subsidiary companies. During 1948 he was a mining geologist with Kennecott Copper Company. From 1949 to 1952 he was with Economic Cooperation Administration as chief of the mining branch of the Mission to Greece and later was chief of the Development Division of the Defense Minerals Production Administration Region III (Europe and Africa). Since April 1953 he has been engaged in private consulting practice in the United States.

GEORGE W. BARNES, Vice President and Director. Mr. Barnes is a partner in the firm of Barnes and Brown, Oil Operators, Denver, Colorado and the owner of the Caribou Cattle Ranch at Nederland, Colorado. He has been engaged in the oil industry as a producer and operator for 20 years and has oil production and a drilling contracting business in the Denver-Julesburg Basin of Colorado.

F. J. KRETSCHMER, Secretary-Treasurer. Mr. Kretschmer is an attorney associated with the law firm of Ernest S. Baker, and has a broad knowledge of oil, gas and mining law. He was formerly on the legal staff of Bay Petroleum Corp.

VISCOUNT CHRISTOPHER ADDISON, Director. Viscount Christopher Addison is a partner of the firm of Dennis, Murphy, Campbell & Co., members of the London Stock Exchange and is a director of Bedford General Insurance Co., Ltd., Newhaven and Seaford Water Co., and Milford Steam Trawling Co., Ltd.

ERNEST S. BAKER, Director. Mr. Baker is an attorney specializing in oil, gas and mining law. He is a member of the board of Pennant Drilling Co., and is Vice President and member of the board of Tomberlin Petroleum Co.

STEPHEN D. FULLER, Director. Mr. Fuller graduated from Harvard College in 1930 with an A.B. degree and attended Harvard Law School. He has been actively engaged in the investment banking business for 24 years, and has been the senior partner of S. D. Fuller & Co. for the past 15 years. He is a director of several industrial corporations. S. D. Fuller & Co. is the principal underwriter herein.

C. W. HORSTMEIER, Director. Mr. Horstmeier has spent his entire business career in the exploration for and production of petroleum. He has broad knowledge in the Rocky Mountain Area and is presently Vice President in charge of Exploration and Development for a major oil company.

The officers and directors have no royalty interest in any of the property or contracts transferred to the Corporation.

TRANSACTIONS WITH PROMOTERS

In payment for properties assigned to the Corporation and for services rendered, the Corporation has issued shares as follows:

Viscount Addison, 100 shares; Ernest S. Baker, 100 shares; George W. Barnes, 34,850 shares; Ralph O. Brown, 34,850 shares; Stephen D. Fuller, 100 shares; George C. Heikes, 100 shares; C. W. Horstmeier, 100 shares; Edward Stuart-Hunt, 5,000 shares; Joseph Rumsey, 24,800 shares; Bill J. Angelos, 9,500 shares; and Mohawk Uranium Corp., 7,500 shares, totaling in the aggregate 117,000 shares.

Except as set forth in the Offering Brochure, no director, officer, promoter or affiliate has any direct or indirect material interest by security holdings, contracts, options or otherwise in the Corporation or in any property proposed to be acquired or operated by the Corporation or in any properties whose value would be enhanced by operations of the Corporation on its properties.

DESCRIPTION OF CAPITAL STOCK

The only class of capital stock authorized is Common Stock, par value $0.25 per share.

The holders of the Common Stock are entitled to receive such dividends as may be declared by the Board of Directors pursuant to the laws of the State of Colorado and are entitled to one vote per share at all stockholders meetings. There are no limitations in any indentures or other agreements on the payment of dividends. The shares of Common Stock are fully paid and non-assessable. In the event of liquidation the net assets of the Corporation are distributable

The mining contract involves the following considerations:

Issuance of 9,500 shares of Corporation stock to Bill J. Angelos and 7,500 shares of stock to Mohawk Uranium Corporation; the cash payment of $7,500 of which $1,000 has been paid and the balance of $6,500 due March 15, 1955. The Corporation will realize 50% of the net profits of the operation after deduction of the mining expenses and 15% royalty.

Wray Mesa Group

Consisting of 51 unpatented mining claims located in Sections 4, 5, 8, 9, 16 and 17 of Township 46 North, Range 19 West, Montrose County, Colorado.

This property comprises 11 Polecat, 10 Hotrock and 30 Boomer, totaling 51 mining claims of 20 acres each, which are located in the Paradox Valley area of Montrose County, Colorado, 56 miles from Moab, Utah. This property is 6500 feet above sea level, and the ore horizon occurs in the Salt Wash member of the Morrison Formation. Exploratory work has been on only one of the claims, the Polecat No. 1. All discovery cuts have been completed. The property was examined by Mr. Frank H. MacPherson, Mining Engineer, Grand Junction, Colorado. Samples were taken by Mr. A. J. Watson, Mining Engineer, Grand Junction, Colorado. In his report of October 2, 1954, Mr. MacPherson gave the results of Mr. Watson's orientation samples which gave a general idea of the character of the mineralization. Thickness will have to be determined by systematic core drilling. Five samples assayed from .07% to 0.34% U_3O_8 and 0.24% to 1.26% V_2O_5. An additional selected sample representing a thickness of ½ inch of the mineralized layer assayed 1.25% U_3O_8 and 1.40% V_2O_5.

Because of the profitable mining operations to the north and south of the property and mineralization observed, Mr. MacPherson recommended five thousand feet of drilling on this group. Fortunately the mineralized horizon is relatively shallow and can be tested by wagon drilling.

The Corporation has purchased this group of 51 unpatented mining claims from Edward Wales and George E. Wales of Mesa County, Colorado. The claims are subject to a royalty of 12½% payable to George E. Wales, Edward Wales and Jack Smith.

Abajo Group (Rim and Manti Groups)

This property consists of 15 unpatented mining claims of 20 acres each, located six miles northwest of Monticello, Utah, and four miles west of Highway 160. In his report dated October 2, 1954, Mr. Frank H. MacPherson was of the opinion that since the Dakota Formation outcrops on the surface, drilling to reach the Salt Wash Member of the Morrison Formation would require 500 feet or more. He did not recommend any drilling. The property will, therefore, be held for future disposition. If ore is later found in the immediate vicinity of this property, the Corporation might then decide to investigate it by drilling.

This property was assigned to the Corporation by George W. Barnes and Ralph O. Brown of Denver, Colorado who paid $2,000 and received 8,000 shares of stock for assigning to the Corporation. Mr. Barnes is an officer and a director of the Corporation.

The Corporation has a mining contract on this group, which comprises the Star claims Nos. 11 through 15, and the Tom claims Nos. 10 through 16, making a total of 12 mining claims.

Under the terms of the mining contract, the Corporation agrees to spend up to $4,000 on exploratory work in 1955 and if commercial ore bodies are found, to commence operations and under the same terms and conditions as set forth above with respect to the Wild Goose Group.

The mining contract is for a period of five years from the 27th day of November, 1954, and as long thereafter as commercial ore is being produced or development work is being diligently prosecuted.

Joker Group (Gas Hills Area)

9 unpatented mining claims located in Sections 13 and 24, Township 32 North, Range 91 West and Section 18, Township 32 North, Range 90 West, Fremont County, Wyoming.

The Corporation has a mining contract on this group which is comprised of the Joker claims Nos. 1 through 9, a total of nine claims. These claims join the Star Group on the east. The north boundary of the Joker Group joins the Idiot's Delight Group. The Number 1 Joker claim is about eight hundred feet southeast of the Juneau property. The Joker claims, by reason of their proximity to the Juneau property and their situation with regards to the general trend of mineralization, are favorably located.

Under the terms of the mining contract, the Corporation agrees to spend up to $4,000 on exploratory work in 1955 and if commercial ore bodies are found, to commence mining operations under the same terms and conditions as set forth above with respect to the Wild Goose Group and the Star Group.

The mining contract is for a period of five years from the 8th day of December, 1954, and as long thereafter as commercial ore is being produced or that development work is being diligently prosecuted.

Juneau Property, Idiot's Delight Group (Gas Hills Area)

The Corporation has acquired a mining contract on the Idiot's Delight Group consisting of eight unpatented claims located in Section 12, Township 32 North, Range 91 West in the Gas Hills Area of Fremont County, Wyoming. To date, two exposures of ore beneath one to four feet of overburden have been determined by bulldozer cuts.

A shipment of eight tons of ore from the Corporation's Juneau property has been made to the Vitro Chemical Corporation of Salt Lake City, Utah. A second shipment of nine tons of ore has been made to the Atomic Energy Commission Buying Station at Edgemont, S. D.

The possibility of developing a sizeable tonnage of commercial ore on these claims is promising, as several mineralized horizons have already been disclosed in the general area. As soon as weather conditions permit the stripping of the mineralized zone will be recommenced.

proportionately among the holders of the Common Stock in accordance with their respective holdings.

There are no preemptive rights to purchase the Common Stock other than the right given to the Underwriters and management to purchase 150,000 stock purchase warrants as described immediately below.

DESCRIPTION OF WARRANTS

150,000 stock purchase warrants (hereinafter called "Warrants") are authorized. 75,000 of these are to be issued to the Underwriters or their designees and the remaining 75,000 to the Corporation's officers and employees in the discretion of the management. Each warrant will cost one cent and will entitle the holder thereof to purchase one share of the Common Stock of the Corporation at $1.00 per share. The warrants will not be exercisable until a date thirteen months following the conclusion of the Public Offering of the Corporation's shares hereunder, and will be exercisable thereafter until the expiration date five years from the exercise date, after which time they become null and void. The warrants provide that no transfer or assignment of them or of the rights represented by them can be made for a period of thirteen months next following the date of issue, except that nothing in the warrants shall prevent their assignment or transfer by operation of law to the executor, administrator or other personal representative of the person in whose name they are initially registered. The warrants contain provisions designed to protect the holders thereof against dilution through recapitalization, consolidation, sale of assets, etc.

The Corporation agrees to file a Notification, pursuant to the Securities Act of 1933 and the rules and regulations thereunder, with the Securities and Exchange Commission, upon the expiration of twelve months from the issue date of the warrants covering the 150,000 shares of stock required upon exercise of such warrants before such warrants are assignable or exercisable.

LITIGATION

There are no legal actions pending or judgments entered against the Corporation and to the knowledge of the Corporation no legal actions against it are threatened.

TITLE OPINIONS

Legal matters pertaining to the claims and leases on the Colorado Plateau and in the State of Utah have been passed on for the Corporation by Mr. Frank L. Seymour of the law firm of Massa & Seymour, Grand Junction, Colorado; for the claims and leases in the State of Wyoming, by Mr. Ernest S. Baker of the law firm of Ernest S. Baker, C. A. Johnson Building, 509 17th Street, Denver, Colorado. In their respective opinions and from the records examined, no adverse claims or interests were indicated. Titles based on acquisition of possessory right upon the public domain by location of an unpatented lode mining claim are subject to hazards. The Corporation does not make any warranty or representation as to the validity or marketability of its title to any properties mentioned in this circular. From the records examined, no adverse claims or interests are indicated. The Corporation recog-

nizes that remedial or defensive actions may be required regarding titles but no such action is apparent at this offering.

UNDERWRITING

The Underwriters named below have entered into a firm Underwriting Agreement with the Corporation wherein the Corporation has agreed to sell and the Underwriters have agreed, subject to the terms and conditions of the said Underwriting Agreement, to purchase or find purchasers for the 298,400 shares of the Common Stock of the Corporation referred to herein in the respective amounts set forth below.

The obligation of the Underwriters to purchase this Common Stock is subject, among other things, to the performance or fulfillment of certain commitments and conditions specified in the Underwriting Agreement to be fulfilled or complied with by the Corporation at, or prior to, the closing date therein or as extended by the Underwriters. The Corporation has agreed to qualify the stock issue and the issue of warrants and use its best efforts for qualification in various states. In addition, the Underwriters have the right to purchase 75,000 warrants as set forth in a preceding paragraph, their expense of this underwriting reimbursed up to $10,000, the right of first refusal on any other underwriting for stock by the Corporation and to name one director on the Corporation's Board of Directors for a five year period. The foregoing does not propose to be a complete statement of the terms and provisions of the Underwriting Agreement and reference is made to such contract for further terms and provisions. A copy thereof is on file with the Underwriters and available for examination during the usual business hours.

Name	Address	Number of Shares to be Purchased or Sold
S. D. Fuller & Co.	39 Broadway, New York, N. Y.	253,640
Vermilye Bros.	30 Broad Street, New York, N. Y.	44,760

The Underwriters are offering this Common Stock to the public at the offering price of One ($1.00) Dollar per share, and to dealers at such price less a concession or commission of 10 cents per share with the right to each dealer to purchase one warrant as described above for each 12½ shares sold by him.

COUNSEL

Legal matters in connection with the shares of Common Stock covered by this Offering Brochure will be passed upon by Ernest S. Baker, Esq., 327 C. A. Johnson Building, Denver, Colorado, and Leo W. Kennedy, 324 C. A. Johnson Building, Denver, Colorado, for the Corporation, and by Messrs. Heywood, Benedict and Hurry, 49 Wall Street, New York 5, N. Y. for the Underwriters.

BRITISH WESTERN AMERICA URANIUM CORPORATION

by GEORGE W. BARNES,
Vice President.

north of the discovery recently reported by the Atomic Energy Commission on the Bull Rush Group. The property is 6,400 feet above sea level, all in the Wind River formation.

Favorable scintillometer readings and surface mineralization show on the south central part of the Eureka Group. Shallow drilling, drag line, or bulldozer work will be used to prospect these claims. No work has been done to date on this property other than the initial discovery cuts and the scintillometer observations mentioned above.

A systematic program for exploration is planned for this property. In the meantime, considerable valuable information, which will be helpful to the Corporation, is being accumulated by the government agencies at work in this area.

Dr. Warren W. Longley, Professor of Geology at the University of Colorado, Boulder, Colorado, has recommended an expenditure of $4,000 for buildozing areas which show favorable scintillometer readings. Thereafter, shallow wagon drilling will be done to indicate the shape, depth, and approximate grade of the mineralization, if any.

The Corporation has an option to purchase this group of 34 unpatented mining claims from Messrs. C. M. Enloe and C. M. Massey of Moneta, Wyoming. The total consideration is $36,680 plus 15% royalty to Enloe and Massey.

Wild Goose Group (Gas Hills Area)

12 unpatented mining claims located in Sections 7, 8, 17, and 18, Township 32 North, Range 90 West, Fremont County, Wyoming.

The Corporation has a mining contract on this group which comprises the Wild Goose Nos. 1 through 8, and the Tom Nos. 25 through 28, making a total of 12 mining claims. These claims are favorably located and several mineralized outcrops have been confirmed. Under the terms of the mining contract, the Corporation agrees to spend up to $7,500 on exploratory work. If commercial ore bodies are found, the Corporation will commence mining operations, and has agreed to share equally with the actual owners in the net profits from ore proceeds after mining costs and 14% royalty have been deducted.

The mining contract provides that exploratory work shall commence within the year 1955, and is for a period of five years from the 24th day of November, 1954, and as long thereafter as commercial ore is being produced, or that development work is being diligently prosecuted.

These claims are located one-half mile south of the Green River Oil and Uranium Corporation mine, one-fourth mile southeast of the Upetco mine and one mile due east of the Mountain Mesa Mining Company mine.

Star Group (Gas Hills Area)

12 unpatented mining claims located in Sections 7 and 18, Township 32 North, Range 90 West and Section 12, Township 32 North, Range 91 West, Fremont County, Wyoming.

The North boundary is approximately one and one-eighth miles due south of the Green River Oil and Uranium Corporation's mine, and approximately five-eighths of a mile south of the Upetco mine. The Star claims are contiguous to the Idiot's Delight Group, and are within one-quarter mile of the Juneau property.

The Gas Hills Area of Fremont County, Wyoming

New discoveries of uranium ore have been made in 1954 in the Gas Hills Area of the Wind River Basin of central Wyoming. This district lies midway between Casper and Riverton and is about 31 miles to the south, over a dirt road, from Moneta which is located on United States Highway 20. The nearest ore buying depot of the Atomic Energy Commission is in Riverton, a distance of approximately 40 miles.

The mineralization of autunite, liebigite, uranophane and other yellow colored oxidized uranium minerals occurs in coarse, loosely compacted sandstone lenses in the Wind River formation of Paleocene age. The central part of the Wind River Basin consists of alternate layers of sandstone and shale. (The sandstones were formed in ancient stream channels filled with sand when the streams meandered to other courses in the river flood plain deposit.)

The Wind River formation is underlain by older formations of Cretaceous, Jurassic and Triassic age which have been intensely folded and faulted and then eroded before the Wind River formation was deposited.

Overlying the Wind River formation are beds of volcanic ash and silt of the White River formation of Oligocene age, thought to have come from volcanic eruptions in the Yellowstone Park area. Some geologists believe that the uranium may have come from this volcanic ash, leached by rain water and subsequently redeposited in favorable sandstone channels in the underlying Wind River formation. In any case, the Lucky Mc, Metallics Unlimited, Upetco, Green River and other deposits are in the Wind River formation as are the Wyoming properties of this Corporation.

Lucky Mc mine is located 2 miles East of the Corporation's Eureka group and is an open pit operation. Mineralized indications from the Corporation's Juneau property located on the Idiot's Delight Group have been found to commence at the surface and possibly recur in separate strata to a depth of approximately 50 feet.

The Corporation has options to purchase outright the following mining claims in the Gas Hills area:

Eureka Group	34 claims

and has mining contracts on the following groups of claims:

Wild Goose Group	12 claims
Star Group	12 claims
Joker Group	9 claims
Idiot's Delight Group	8 claims

Eureka Group (Gas Hills Area)

Located in Sections 19, 20, 21, 27, 28 and 33, Township 33 North, Range 90 West, Fremont County, Wyoming.

These comprise thirty-four unpatented mining claims, the eastern boundary of which lies approximately two miles west of the Lucky Mc mine, and approximately two miles due west of the Vitro mine. The central part of the Eureka Group lies approximately one-half mile

BRITISH WESTERN AMERICA URANIUM CORPORATION

STATEMENT OF ASSETS AND UNRECOVERED PROMOTIONAL, EXPLORATORY AND DEVELOPMENT COSTS

February 1, 1955

	Shares of Stock		
Current Assets:			
Cash			$16,500.00
Mining Claims and Options:			
Mining Claims:			
Wray Mesa	24,800	$ 7,500.00(1)	
Abajo	8,000	2,000.00(2)	
Option on Mining Claim:			
Eureka	25,000	11,500.00(3)	
Mining Contracts			
Juneau	17,000	7,500.00(4)	
Wild Goose	32,100	(5)	
Star	8,800	(6)	
Joker	800	(7)	
			28,500.00
Unrecovered promotional, exploratory and development costs	500		15,000.00
Total shares	117,000	Total Assets..	$60,000.00

(1) Purchased by Joseph Rumsey for which he was issued 24,800 shares of stock, cash not reimbursable.

(2) Purchased by Barnes and Brown for which they were issued 8,000 shares of stock, cash not reimbursable.

(3) Purchased by Barnes and Brown for which they received 25,000 shares of stock. $11,500 paid and balance of $25,180 due March 1, 1955.

(4) Contract price of $7,500 and 7,500 shares of stock to Mohawk Uranium Corporation and 9,500 shares of stock to Bill J. Angelos. $1,000.00 paid by Barnes and Brown, balance of $6,500.00 due March 15, 1955.

(5) "This mining contract was assigned to the Corporation by Barnes and Brown for 32,100 shares of stock and 4,900 of said shares were transferred to E. Stuart-Hunt by Barnes and Brown for aid in negotiation and acquisition. Corporation is to expend $7,500 on exploration work if commercial ore is found. Corporation will commence mining operations and receive 50% of net profits after deduction of mining costs and 14% royalty".

(6) This mining contract was assigned to the Corporation by Barnes and Brown for which they received 8,800 shares of stock for negotiation and acquisition. The Corporation is to expend up to $4,000 on the same terms as Wild Goose (see Footnote 5).

(7) This mining contract was assigned to the Corporation by Barnes and Brown for which they received 800 shares of stock for negotiation and acquisition. The Corporation is to expend up to $4,000 on the same terms as Wild Goose and Star Claim (see Footnotes 5 and 6).

STATEMENT OF LIABILITIES

The Corporation has a liability of $40,000 as stated in item 10 under Use of Proceeds on page 14 as follows:

Notes Payable:		
Barnes and Brown (Non-interest bearing, on demand)	$15,000.00	
E. Stuart-Hunt (Non-interest bearing, on demand)	25,000.00	
		$40,000.00
Contract Payable:		
Mohawk (Juneau, Idiot's Delight)		6,500.00
Total Liabilities		$46,500.00

BRITISH WESTERN AMERICA URANIUM CORPORATION

STATEMENT OF CAPITAL SHARES

Common Stock—Par Value $0.25 per share			*Shares*	*Shares*
Authorized				600,000
Outstanding:				
Issued for:				
1. Services			500	
2. Property				
Claims:				
Eureka	34 claims	25,000		
Wray Mesa	51 claims	24,800		
Abajo	15 claims	8,000		
Mining Contracts:				
Juneau (Idiot's Delight)	8 claims	17,000		
Wild Goose	12 claims	32,100		
Star	12 claims	8,800		
Joker	9 claims	800	116,500	
			117,000	117,000
Reserved for Warrants				150,000
Unissued				333,000
			Total Shares	600,000

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS

September 8, 1954 — February 1, 1955

RECEIPTS:			
Loan from E. Stuart-Hunt	$25,000.00		
Loan from Barnes and Brown	15,000.00		$40,000.00
DISBURSEMENTS:			
Eureka Claims	$ 7,500.00		
Juneau	1,000.00	$ 8,500.00	
EXPLORATION, DEVELOPMENT AND ORGANIZATION		15,000.00	23,500.00
CASH IN BANK			$16,500.00

To date the Corporation has mining leases on 41 unpatented mining claims and has options to purchase 35 unpatented mining claims in the Gas Hills area of Fremont County, Wyoming. The Corporation owns 51 unpatented mining claims on the Wray Mesa in the Paradox Valley area of Montrose County, Colorado and 15 unpatented mining claims in the Abajo Mountain area of San Juan County, Utah.

All claims involved total 142 covering approximately 2,600 acres. It should be noted that $100 per claim assessment work is required per year on all claims held by the Corporation.

Market for Uranium

At present the sole market for uranium ore in this country is the United States Government, operating through the Atomic Energy Commission, or its authorized purchasers. The announced policy of the Atomic Energy Commission is to expend every effort to assist in the production of uranium. Although the Corporation has no assurance with respect to future Atomic Energy Commission policy, it is anticipated that the present policy will continue and that the Corporation will have no difficulty in disposing of its uranium ore.

The Atomic Energy Commission has established a guaranteed minimum price schedule for uranium ores for the period March 1, 1951 through March 31, 1962, as set forth in its Domestic Uranium Program Circular 5, as revised, and Circular 6. Under the minimum price schedule now in effect, payments are made by the Atomic Energy Commission for ores assaying 0.10% or more of U_3O_8 (1% equaling 20 pounds of Uranium Oxide (U_3O_8) per ton of ore). Payments range from $1.50 per pound of U_3O_8 for ores assaying 0.10% of U_3O_8 (2 pounds per ton) to $3.50 per pound for ores assaying 0.20% (4 pounds per ton) and more. In addition, premium payments are made at the rate of 75¢ per pound for each pound of U_3O_8 in excess of four pounds found in each ton of ore and an additional premium of 25¢ per pound for each pound in excess of 10 pounds of U_3O_8 found in each ton of ore.

In addition to the premium payments, the Atomic Energy Commission gives a development allowance of 50¢ per pound of contained U_3O_8 for ores assaying 0.10% or more, in recognition of the expenditures necessary for maintaining and increasing developed reserves of uranium ores. Sellers accepting this allowance must agree to spend such funds for the development or exploration of their properties and sellers delivering more than 1,000 tons per calendar year must submit evidence of such expenditures to the Atomic Energy Commission.

In most uranium ores mined on the Colorado Plateau some vanadium oxide (V_2O_5) is found, which is also purchased to a limited degree by the Atomic Energy Commission. The announced price for V_2O_5 is 31¢ per pound up to but not exceeding 10 pounds of V_2O_5 for each pound of U_3O_8 found in each ton of ore. No allowance has been set for V_2O_5 in excess of 10 pounds for each pound of U_3O_8.

The Atomic Energy Commission allows 6% or 120 pounds of lime per ton of ore without penalty. Where the lime content exceeds 6%, a penalty of $1.00 per ton base charge plus 30¢ for each additional 1% (20 pounds) or fraction thereof of lime is imposed. These penalty payments are deducted by the Atomic Energy Commission from the purchase price of the uranium ores.

A haulage allowance of 6¢ per ton mile for the transportation of ore is paid by the Atomic Energy Commission up to a maximum of 100 miles. Each of the Corporation's properties is within 100 miles of an ore buying station.

298,400 Shares

British Western America Uranium Corporation

COMMON STOCK

(Par Value $0.25 Per Share)

HISTORY AND BUSINESS

British Western America Uranium Corporation (hereinafter called the Corporation) was incorporated in Colorado on September 8, 1954 to engage initially in the acquisition, exploration, mining and operation of uranium and other mineral properties in the States of Utah, Colorado and Wyoming. Its main office is located in the C. A. Johnson Building, Denver, Colorado.

The Corporation was organized by Mr. Ralph O. Brown and his partner Mr. George W. Barnes, oil operators, producers and drilling contractors, doing business as Barnes and Brown, with operations in the Denver-Julesburg Basin of Colorado.

Messrs. Barnes and Brown, assisted by Mr. William Jack Smith of Grand Junction, Colorado, obtained their first group of claims, hereinafter referred to collectively as the "Wray Mesa Group" in the Paradox Valley of Montrose County, Colorado. Later other properties were acquired in San Juan County, Utah and Fremont County, Wyoming.

A desire to participate in the uranium industry of the United States was expressed to Mr. Barnes by Mr. Edward Stuart-Hunt of London, England. The idea of a joint British-American venture evolved therefrom and the Corporation was named the British Western America Uranium Corporation. Mr. Stuart-Hunt was invited to become President and came to the United States to inspect the various properties, and assist with the final corporate plans.

During Mr. Stuart-Hunt's visit to the United States in October and November, 1954, the Corporation was extremely fortunate in acquiring the services of Mr. George C. Heikes, geologist and mining consultant of international repute, as Executive Vice President.

Mr. Heikes and Mr. Barnes visited the new Gas Hills area of Fremont County, Wyoming, and contracted to purchase a group of claims known as the Eureka Group consisting of 34 unpatented mining claims situated approximately two miles west of the Lucky Mc mine and approximately one and one-half miles northwest of the Vitro mine. They then obtained mining leases on the Wild Goose Group consisting of 12 unpatented mining claims and the Star Group consisting of 12 unpatented mining claims, both of which offset the claims on which the Green River Oil & Uranium Corporation mine and the Upetco mine are located. Subsequently, Mr. Barnes obtained mining leases on the Joker Group consisting of 9 unpatented mining claims and the Idiot's Delight Group consisting of 8 unpatented mining claims.

Exploration of the Wild Goose, Star, Idiot's Delight and Joker Groups will commence in the early part of 1955.

SCHEDULE OF EXPLORATION, DEVELOPMENT AND ORGANIZATION COSTS

September 8, 1954 — February 1, 1955

Payroll	$ 1,191.00
Office Rent	415.00
Telephone and Telegraph	1,315.00
Office Fixtures and Decorating	1,186.03
Stationery	97.07
Miscellaneous	416.86
Incorporation Fees	233.10
Filing Fees	79.00
Field Trip Expenses	1,640.02
Engineering and Geological Fees	3,464.52
Claim Development	510.00
Attorney Fees (Titles)	1,008.69
Maps	224.51
Travel	3,219.20
	$15,000.00

on the sale of the warrants or the shares issuable on their exercise may be deemed additional underwriting compensation to the Underwriters and consideration to the organizers and management, and be a capital gain.

This Public Offering will place in the hands of others than the organizers and Underwriters, 298,400 shares of common stock at $1.00 per share or $298,400, which is 71% of the 415,400 shares of stock to be outstanding at the close of the public issue. The organizers and Underwriters will hold 29% or 117,000 shares of the 415,400 shares issued for which they have contributed services, property and mining contracts, for a cash consideration of $28,500. Further, in the event the organizers and Underwriters exercise their right to purchase the 150,000 shares by exercising the warrants, the Public will hold 53% or 298,400 shares and the Organizers and Underwriters will hold 47% or 267,000 shares for which they will have paid $151,500 for shares and warrants in addition to the $28,500 cash for property, mining contracts and their services for a total of $180,000 and their services.

INTRODUCTORY STATEMENT

The search for and development of potential mineral bearing properties is an enterprise involving risk. This holds true for the relatively new, but now widespread, hunt for uranium. Under existing conditions there is no competition or marketing problem since the United States Government is the willing, exclusive buyer at established prices, dependent on the quality of the ore. The uncertainties lie in the problem of locating the mineral in commercially productive quantities.

Extensive tests may establish the existence of proven quantities of uranium ore. Until the presence of ore can be so established, however, the value of any particular property must be more or less arbitrarily determined. Production history, proximity to known ore deposits, favorable geological formations and test drilling may, separately or in combination, indicate good mineral potentials.

However, no claim or representation is made as to ore reserves on the Corporation's properties.

The activities of the British Western America Uranium Corporation at this time are in part financing the purchase of properties and in part exploration and surface clearance of the Juneau property in the Gas Hills area of Wyoming. Two shipments have been made from the Juneau property to date. A shipment of eight tons to the Vitro Chemical Corporation of Salt Lake City, Utah and a shipment of nine tons to the Atomic Energy Commission buying station at Edgemont, South Dakota for a total of seventeen tons. The proceeds of this issue are proposed to be used for meeting obligations under contracts to purchase properties to explore the potentialities of the Corporation's claims and the acquisition of other properties. The officers and directors of the Corporation will serve without salary or other compensation until such time as the Board of Directors shall determine that the revenue of the Corporation shall have reached a figure so as to permit payment commensurate with their respective services.

150,000 stock purchase warrants are authorized, 75,000 may be purchased by the Corporation's officers and employees in the discretion of the management and 75,000 may be purchased by the Underwriters. Each warrant will cost $0.01 and will entitle the holder thereof to purchase stock at $1.00 per share. The warrants will not be exercisable until thirteen months following the conclusion of the Public Offering of the Corporation's shares hereunder and will be exercisable thereafter until the expiration date five years from the exercisable date, after which they become null and void.

During the life of the right to purchase the 150,000 shares of stock as given by the warrants, the persons holding them are given the opportunity to profit from a rise in the market price of the Corporation's stock at the expense of the stockholders of the Corporation who made the initial investment in the Corporation. During the life of the rights given by the warrants the Corporation may be deprived of a favorable opportunity to obtain additional equity capital if it should be needed for the business. The Corporation would possibly be able to obtain additional equity capital by a public sale of its stock on terms more favorable than those provided in the warrants at any time the holders of the warrants may be expected to exercise them. If such warrants or the shares issuable on the exercise of the warrants are sold at a price in excess of the price received by the Corporation, such profits

No dealer, salesman, or any other person has been authorized to give any information or to make any representations other than as contained in this Offering Brochure in connection with the offer contained herein, and, if given or made, such information or representations must not be relied upon as having been authorized by the Corporation or by the Underwriters. This Offering Brochure does not constitute an offer to sell, or a solicitation of an offer to buy, securities in any state to any person to whom it is unlawful to make such offer in such state.

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BRITISH WESTERN AMERICA URANIUM CORPORATION

298,400 Shares

COMMON STOCK

(par value, $0.25 per share)

Offering Price: $1.00 per share

OFFERING BROCHURE

Dated: February 14, 1955

OFFERING BROCHURE

298,400 Shares

British Western America Uranium Corporation

(A Colorado corporation)

COMMON STOCK

(Par Value $0.25 Per Share)

DEPARTMENT OF THE INTERIOR
Bureau of Mines Minerals Administration
RECEIVED
MAR 3 - 1955

Transfer Agent

CORPORATION TRUST COMPANY
15 Exchange Place, Jersey City, New Jersey

OFFERING PRICE: $1.00 Per Share

THESE SECURITIES ARE OFFERED AS A SPECULATION

	Price to Public	Underwriting Discounts or Commissions (1)	Proceeds to the Corporation (2)
Total	$298,400	$52,220	$246,180
Per Share	$1.00	$0.17½	$0.82½

(1) The Corporation, as more fully set forth in the Underwriting Agreement, has agreed that the Underwriters or their nominees may buy stock purchase warrants at $0.01 a warrant evidencing a right to purchase an aggregate of 75,000 shares of Common Stock of the Corporation at $1.00 per share. The Corporation has also agreed to reimburse the Underwriters for their fees and expenses in connection with this issue in an amount not to exceed $10,000. The Underwriters are also entitled to the benefit of certain further provisions for indemnification as set forth in the Underwriting Agreement against certain liabilities under the Securities Act of 1933 or under statute or Common Law. The Underwriters have the right to name one Director of the Corporation.

(2) Exclusive of expenses of the Corporation, estimated at approximately $4,000 and the expenses of the Underwriters referred to above. The officers and directors and employees of the Corporation shall have the right to purchase 75,000 warrants on the same terms as the Underwriters.

THESE SECURITIES ARE OFFERED PURSUANT TO AN EXEMPTION FROM REGISTRATION WITH THE SECURITIES AND EXCHANGE COMMISSION. THE COMMISSION DOES NOT PASS UPON THE MERITS OF ANY SECURITIES NOR DOES IT PASS UPON THE ACCURACY OR COMPLETENESS OF ANY OFFERING CIRCULAR OR OTHER SELLING LITERATURE.

S. D. FULLER & CO.
39 Broadway, New York 6, N. Y.

VERMILYE BROTHERS
30 Broad Street, New York 4, N. Y.

The date of this Offering Brochure is February 14, 1955

RECEIVED

October 2, 1954

Introduction

This report covers mining claims owned by the Anglo American Uranium Company on Wray Mesa, Montrose County, Colorado, and fifteen claims under option to purchase, known as the Manti and Rim claims (Abajo Mining Company) located near Monticello, Utah. The group on Wray Mesa contains fifty-one (51) and the Manti and Rim groups contain fifteen (15) mining claims.

Wray Mesa Claims

This group consists of eleven (11) Polecat, ten (10) Hotrock and thirty (30) Boomer claims, a total of fifty-one (51) mining claims. These claims are situated on Wray Mesa and are reached by automobile a distance of approximately 56 miles from Moab, Utah. About twenty-five (25) miles of this distance is over a paved highway, 12 miles over an improved gravel road and the balance of nineteen (19) miles over an unimproved, rough and difficult trail. Should mining operations start in this area considerable road improvement will have to be done to facilitate automobile and truck travel.

The elevation of these claims averages about 6,500 feet above sea level.

Geology

The Wray Mesa claims are in the Morrison formation of the upper jurassic age. The Morrison formation is composed of two members - the upper one being the Brushy Basin and the lower one the Salt Wash.

The Salt Wash has been the greatest source of carnotite ore production on the Colorado Plateau. It covers a large area on the Plateau, but the greatest concentration of ore bodies lie in a belt that straddles the boundary line between Colorado and Utah. It is in this general area that the above claims are located. Until recently the Salt Wash member of the Morrison formation has been the principal source of uranium, vanadium and radium.

The climate of this general area is semi-arid except in the high mountains.

The Salt Wash deposits consist of massive lenses of medium to coarse-grained, rather porous sandstone, partly conglomeritic at some places in Utah, interbedded with red and gray shale. The Salt Wash has an average thickness on the Plateau of approximately 190 feet.

In the carnotite region of Mesa, Montrose and San Miguel Counties, Colorado, and adjacent parts of Utah, most of the ore occurs in the sandstone lenses that occupy the stratigraphic zone at the top of the Salt Wash unit. Many of these lenses are more extensive than other sandstone lenses in the formation; a single lens may be as much as sixty feet thick and several miles long. It is the opinion of many observers that the more favorable places for ore are those where the sandstone is relatively thick, but ore has been found where the sandstone is thin. Most of the ore is found in the lower parts of sandstone lenses, but ore bodies may occur anywhere from the bottom to the top of a lens. The lower part is apparently more favorable for bodies of milling grade vanadium ore, whereas the upper part is more favorable

for small bodies of high-grade uranium ore. In some mines, however, there are two or more rather distinct levels of milling-grade ore, separated by as much as twenty or thirty feet of barren sandstone. In places a thick shale lens lies within, or tongues into, an ore-bearing sandstone lens.

As the sandstones that are most favorable for ore occupy the upper part of the lower unit (Salt Wash), it appears that in the area being considered it may be drilled at a comparatively small expense from the surface on Wray Mesa.

The ore bodies in the Salt Wash unit of the Morrison formation range from small masses only a few feet across, containing only a few tons of ore, to large tabular bodies of irregular outline several hundred feet across, containing as much as a hundred thousand tons of ore; most bodies contain from a few hundred to a few thousand tons of ore. The tabular ore bodies tend to lie essentially parallel to the sandstone beds, but they do not follow the beds in detail. The limit of the uranium-vanadium-bearing sandstone in many bodies is sharply defined and in places is actually the limit of commercial ore. Elsewhere, the limit of commercial ore is less clearly defined, and mineralized sandstone too thin or too lean to be profitably mined extends considerably beyond the limit of minable ore.

The bodies with well-defined limits vary greatly in lateral dimensions but are thin; usually the thickness of the ore is only a few feet, but in places it is as much as fifteen feet. One of the peculiar characteristic features in these bodies is the tendency for the better grade ore to lie along the margins of the bodies.

As stated above, there are fifty-one (51) mining claims in this group on Mray Mesa. There has been exploratory work on only one claim - the Pole Cat No. 1 claim - and the work done on this claim is of a very limited amount. Three shallow pits have been excavated on the Pole Cat No. 1 claim. From these pits samples have been taken which assayed as follows:

Date	Sample	Thickness	% V_2O_5	% U_3O_8
6/28/54	Hole #1	—	1.26	0.34
6/28/54	Hole #2	—	0.24	0.07
6/28/54	Hole #4	—	0.56	0.15
6/28/54	Hole #5	—	1.09	0.28
9/9/54	Hole #1	6 inches	0.74	0.12
9/9/54	Hole #2	1/2 inch	1.40	1.25

The writer did not take the above samples and no thickness of the ore body was given for the first four samples.

The above assay results indicate uranium values are present in this one mining claim and their main value is an indication that uranium-vanadium ore is present and warrants exploratory work in the area.

As stated above, the Salt Wash member of the Morrison formation, which this area comprises, is a favorable area for uranium ore production. It is recommended that approximately 5,000 feet of exploratory drilling be done on these claims. Should this amount of drilling indicate minable ore bodies, additional drilling should be done.

No detailed examination was made of the fifty-one (51) claims because no exploratory work of any kind has been done on the property except the small amount as noted on the Pole Cat No. 1 claim.

As stated above this group of claims is located in a favorable geological area. In this same geological structure to the north, mines

such as the Firefly, Gray Don, Vanadium Queen, Hespress and Yellow Bird have been worked. Also, to the south of these claims the Broken Shoe, Puma, Brushy Basin, Yip Yip, Crazy Horse, Yucca, Too High, Long John, Sego Lilly Lou, Howling Coyote, Big Casino and the Stocks mines have been operated.

This area, I believe, has a good prospecting possibility, which is its greatest value at the present time.

Manti and Rim Claims (Abajo Uranium Company)

This group of fifteen mining claims is about six (6) miles northwest of Monticello, Utah, and about four (4) miles west of U. S. Highway 160.

There has been no exploratory work of any kind on this group of claims. There are no ore outcrops and a considerable amount of deep drilling will be necessary to prove the value of this property. Most of this area is overlain by the Dakota formation, which means that drilling must be done to a depth of 500 feet or more.

I do not recommend the expenditure of money that would be necessary to prove the value of this property.

Conclusion

Early this year (1954) the U. S. Atomic Energy Commission announced that the guaranteed minimum price for uranium-bearing carnotite-type or roscoelite-type ores of the Colorado Plateau area would be extended to March 31, 1962, thus giving the producer a guaranteed minimum price for the next seven and one-half years. At the same time, the U. S. Atomic Energy Commission extended the termination date for the bonus for initial production of uranium ore from new domestic mines to February 28, 1957.

The only market for uranium ore in the United States is the United States Government, operated through the U. S. Atomic Energy Commission. The U. S. Atomic Energy Commission in turn authorizes various ore processing companies to purchase uranium-bearing ores. The Atomic Energy Commission in the past, and presently, is doing everything possible to help ore producers, and present indications are that there will be a market for uranium ore until at least March 31, 1962.

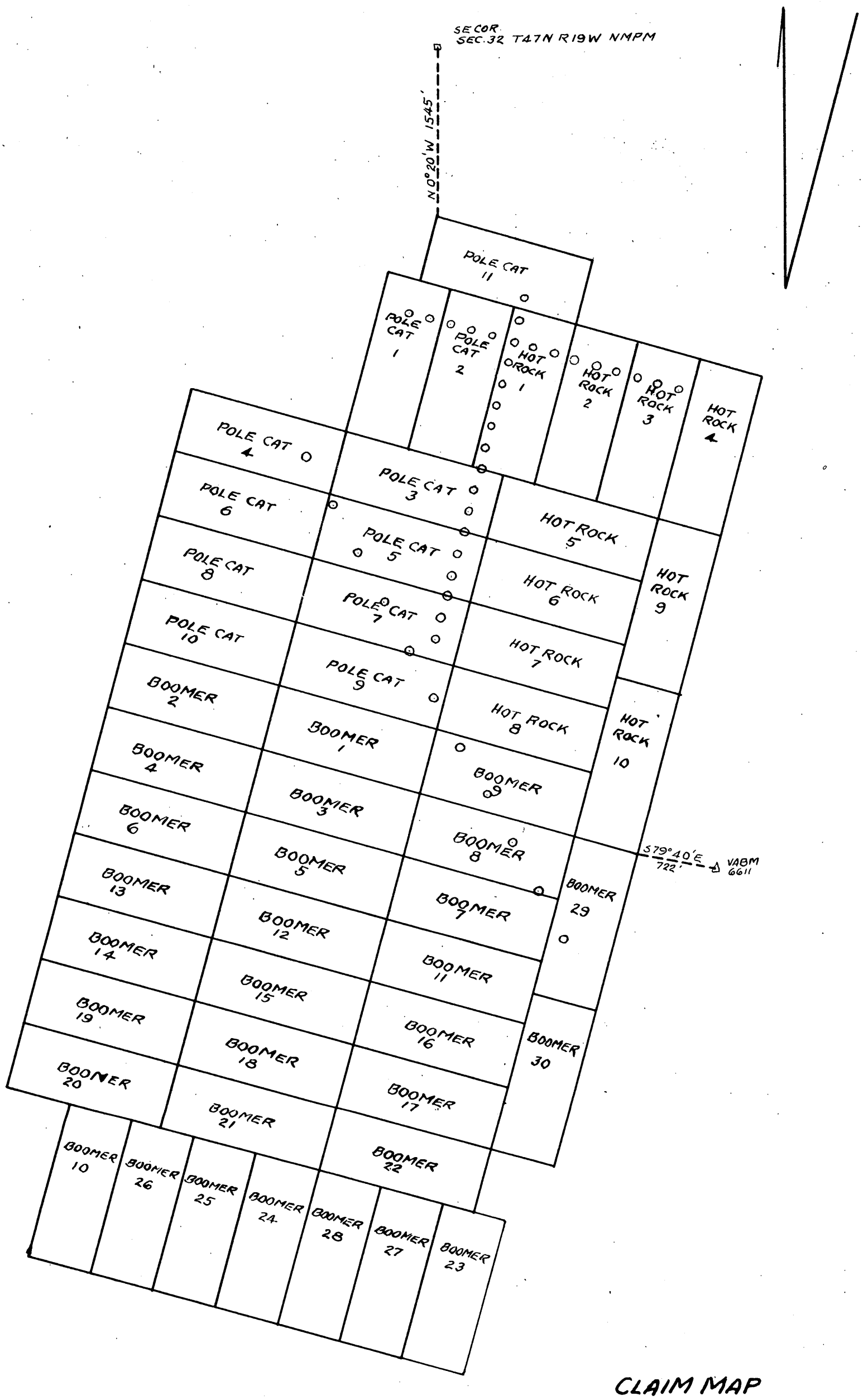
The Atomic Energy Commission, and all other ore buyers, purchase ores under the regulations described in Atomic Energy Commission Circular 5, Revised. The bonus regulations are set up in Atomic Energy Commission Circular 6.

In my opinion the claims on Wray Mesa warrant the expenditure of a limited amount of money to explore the area by comparatively long spaced drilling.

I suggest that no money be spent on the claims in the Monticello area known as the Abajo Uranium Company.

Frank H. MacPherson

Frank H. MacPherson
Engineer of Mines



CLAIM MAP

BRITISH WESTERN AMERICA URANIUM CORP.

WRAY MESA GROUP

showing

PROPOSED DRILL HOLES

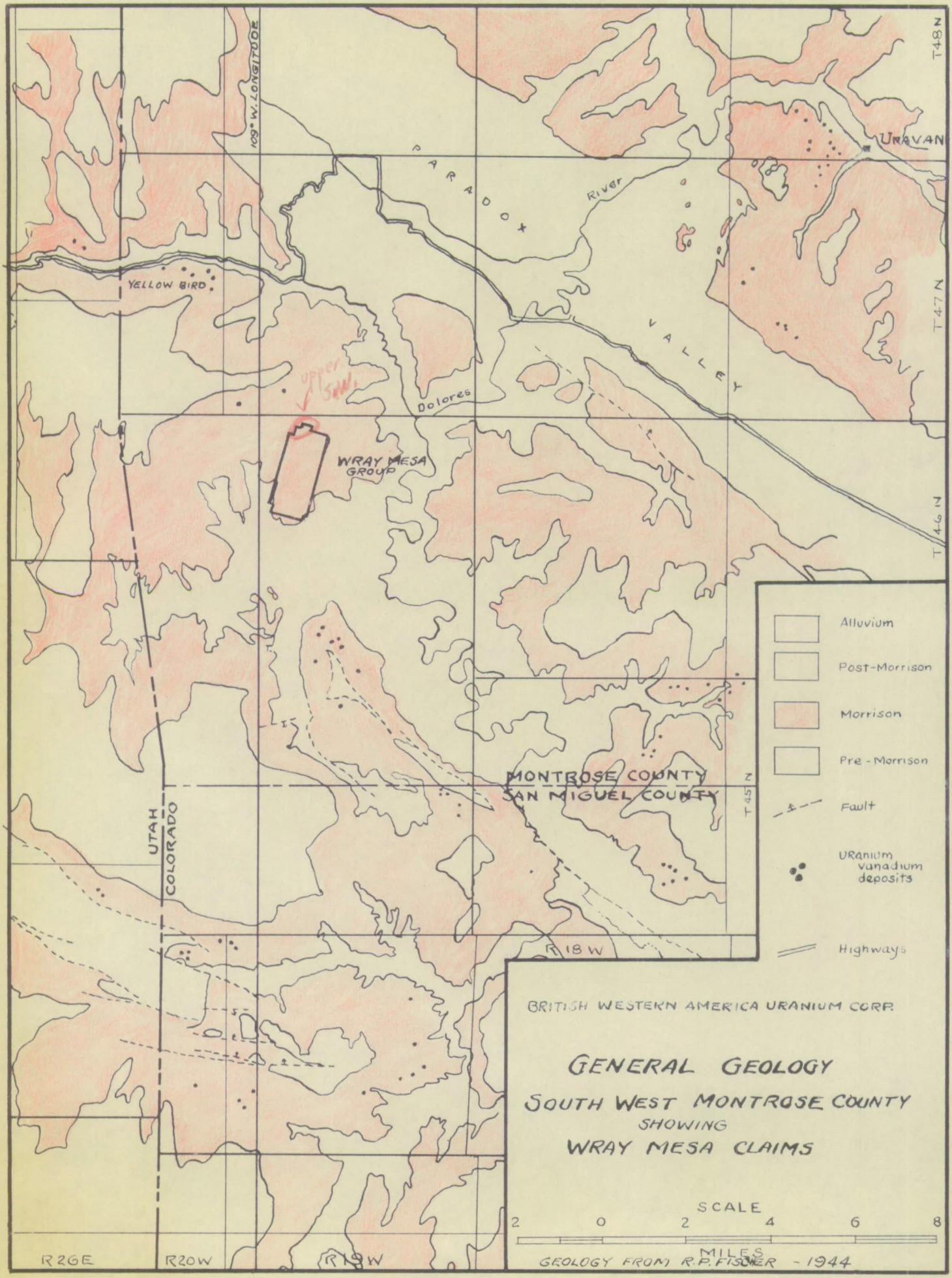
scale

1" = 1000'

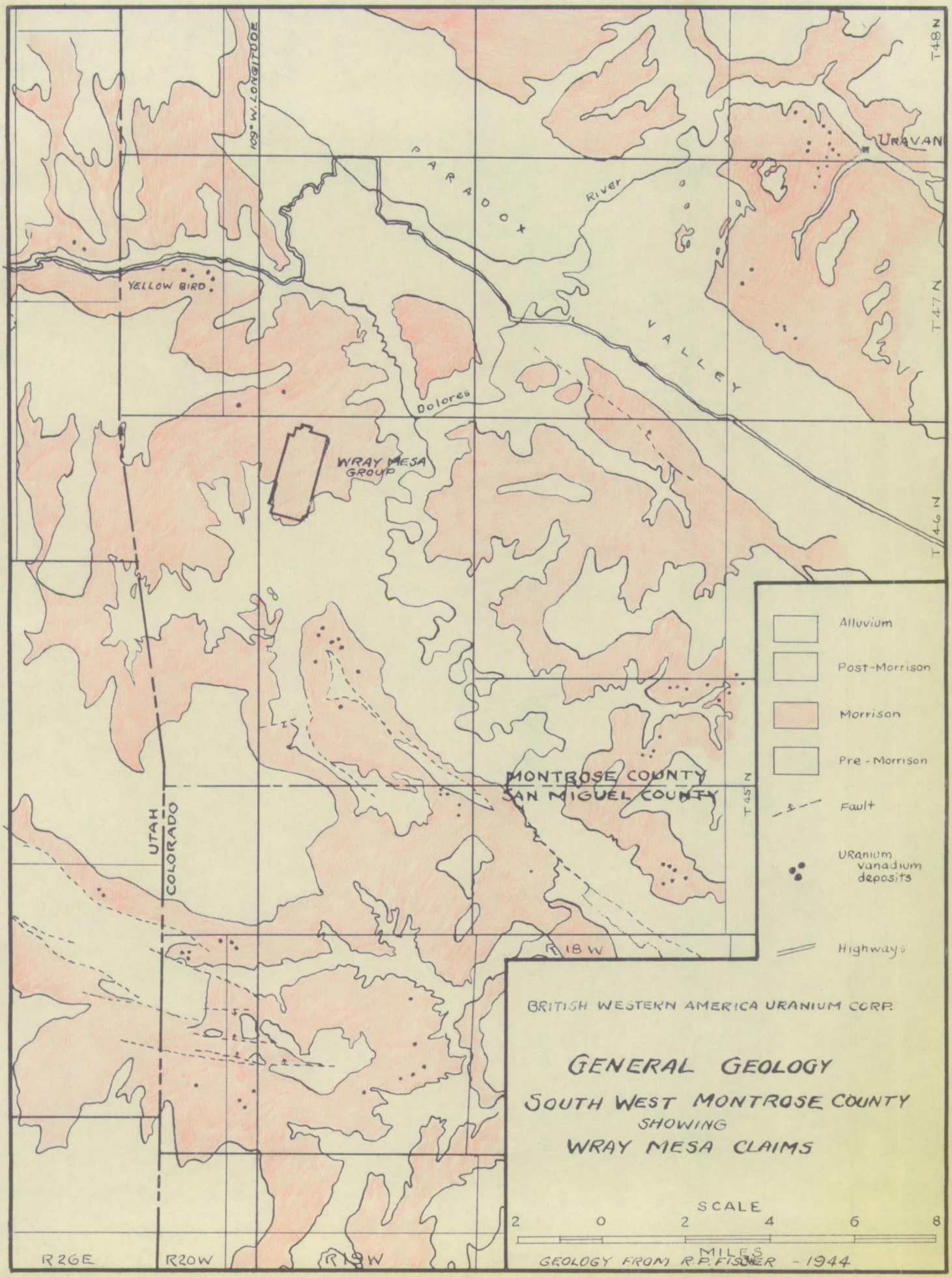
date

FEBRUARY 1955

ENCLOSURE D


109° W. LONGITUDE
T48N
URAVAN
PARADOX
River
VALLEY
YELLOW BIRD
T47N
Dolores
WRAY MESA GROUP
T46N
Alluvium
Post-Morrison
Morrison
Pre-Morrison
Fault
Uranium vanadium deposits
Highways
MONTROSE COUNTY
SAN MIGUEL COUNTY
T45N
UTAH
COLORADO
R18W
BRITISH WESTERN AMERICA URANIUM CORP.
GENERAL GEOLOGY
SOUTH WEST MONTROSE COUNTY
SHOWING
WRAY MESA CLAIMS
SCALE
2 0 2 4 6 8
MILES
GEOLOGY FROM R.P. FISCHER - 1944
R26E
R20W
R19W

ENCLOSURE D


109° W. LONGITUDE
T48N
URAVAN
PARADOX
River
VALLEY
YELLOW BIRD
T47N
Dolores
WRAY MESA GROUP
T46N
Alluvium
Post-Morrison
Morrison
Pre-Morrison
Fault
Uranium vanadium deposits
Highways
MONTROSE COUNTY
SAN MIGUEL COUNTY
T45N
UTAH
COLORADO
R18W
BRITISH WESTERN AMERICA URANIUM CORP.
GENERAL GEOLOGY
SOUTH WEST MONTROSE COUNTY
SHOWING
WRAY MESA CLAIMS
SCALE
2 0 2 4 6 8
MILES
GEOLOGY FROM R.P. FISCHER - 1944
R26E
R20W
R19W

DEPARTMENT OF THE INTERIOR
Library Records Administration
MAR 3 - 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
ATOMIC ENERGY COMMISSION

PARADOX QUADRANGLE
COLORADO—MONTROSE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

(PARADOX VALLEY 1:125000)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken September 1947. Field check 1948

Polyconic projection. 1927 North American datum
10,000-foot grid based on Colorado coordinate system, south zone

Dashed land lines indicate approximate location.
Land lines unsurveyed in part of T. 46 N.-R. 19 W.

TRUE NORTH
MAGNETIC NORTH
15°
APPROXIMATE MEAN DECLINATION, 1948

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.

ROAD CLASSIFICATION

HARD-SURFACE ALL WEATHER ROADS		DRY WEATHER ROADS
Heavy-duty	4 LANE / 2 LANE	Improved dirt
Medium-duty	4 LANE / 2 LANE	Unimproved dirt
Loose-surface, graded, or narrow hard-surface		

U. S. Route — State Route

PARADOX, COLO.
N3815—W10852.5/7.5

EDITION OF 1949

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
ATOMIC ENERGY COMMISSION

PARADOX QUADRANGLE
COLORADO—MONTROSE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

(PARADOX VALLEY) 1:125000

Mapped, edited, and published by the Geological Survey

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Land lines unsurveyed in part of T. 46 N.–R. 19 W.

TRUE NORTH
MAGNETIC NORTH
15°
APPROXIMATE MEAN DECLINATION, 1948

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.

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Loose-surface, graded, or narrow hard-surface		

U. S. Route — State Route

PARADOX, COLO.
N3815—W10852.5/7.5

EDITION OF 1949

ENCLOS. E

THE TOPOGRAPHIC MAPS OF THE UNITED STATES

The United States Geological Survey is making a series of standard topographic maps to cover the United States. This work has been in progress since 1882, and the published maps cover more than 47 percent of the country, exclusive of outlying possessions.

The maps are published on sheets that measure about 16½ by 20 inches. Under the general plan adopted the country is divided into quadrangles bounded by parallels of latitude and meridians of longitude. These quadrangles are mapped on different scales, the scale selected for each map being that which is best adapted to general use in the development of the country, and consequently, though the standard maps are of nearly uniform size, the areas that they represent are of different sizes. On the lower margin of each map are printed graphic scales showing distances in feet, meters, miles, and kilometers. In addition, the scale of the map is shown by a fraction expressing a fixed ratio between linear measurements on the map and corresponding distances on the ground. For example, the scale $\frac{1}{62,500}$ means that 1 unit on the map (such as 1 inch, 1 foot, or 1 meter) represents 62,500 of the same units on the earth's surface.

Although some areas are surveyed and some maps are compiled and published on special scales for special purposes, the standard topographic surveys and the resulting maps have for many years been of three types, differentiated as follows:

1. Surveys of areas in which there are problems of great public importance—relating, for example, to mineral development, irrigation, or reclamation of swamp areas—are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{31,680}$ (1 inch = one-half mile) or $\frac{1}{24,000}$ (1 inch = 2,000 feet), with a contour interval of 1 to 100 feet, according to the relief of the particular area mapped.

2. Surveys of areas in which there are problems of average public importance, such as most of the basin of the Mississippi and its tributaries, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile), with a contour interval of 10 to 100 feet.

3. Surveys of areas in which the problems are of minor public importance, such as much of the mountain or desert region of Arizona or New Mexico, and the high mountain area of the northwest, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{125,000}$ (1 inch = nearly 2 miles) or $\frac{1}{250,000}$ (1 inch = nearly 4 miles), with a contour interval of 20 to 250 feet.

The aerial camera is now being used in mapping. From the information recorded on the photographs, planimetric maps, which show only drainage and culture, have been made for some areas in the United States. By the use of stereoscopic plotting apparatus, aerial photographs are utilized also in the making of the regular topographic maps, which show relief as well as drainage and culture.

A topographic survey of Alaska has been in progress since 1898, and nearly 44 percent of its area has now been mapped. About 15 percent of the Territory has been covered by maps on a scale of $\frac{1}{500,000}$ (1 inch = nearly 8 miles). For most of the remainder of the area surveyed the maps published are on a scale of $\frac{1}{250,000}$ (1 inch = nearly 4 miles). For some areas of particular economic importance, covering about 4,300 square miles, the maps published are on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile) or larger. In addition to the area covered by topographic maps, about 11,300 square miles of southeastern Alaska has been covered by planimetric maps on scales of $\frac{1}{125,000}$ and $\frac{1}{250,000}$.

The Hawaiian Islands have been surveyed, and the resulting maps are published on a scale of $\frac{1}{62,500}$.

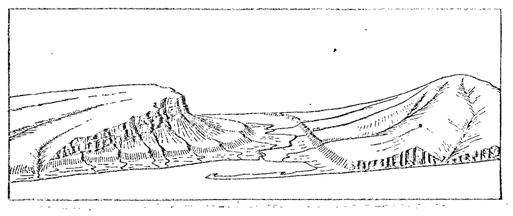
A survey of Puerto Rico is now in progress. The scale of the published maps is $\frac{1}{30,000}$.

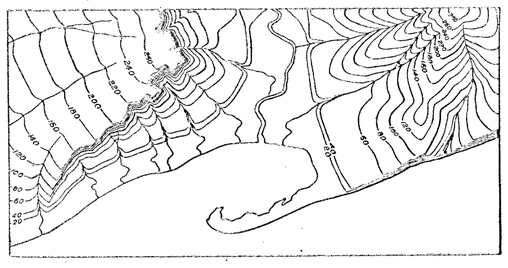
The features shown on topographic maps may be arranged in three groups—(1) water, including seas, lakes, rivers, canals, swamps, and other bodies of water; (2) relief, including mountains, hills, valleys, and other features of the land surface; (3) culture (works of man), such as towns, cities, roads, railroads, and boundaries. The symbols used to represent these features are shown and explained below. Variations appear on some earlier maps, and additional features are represented on some special maps.

All the water features are represented in blue, the smaller streams and canals by single blue lines and the larger streams by double lines. The larger streams, lakes, and the sea are accentuated by blue water lining or blue tint. Intermittent streams—those whose beds are dry for a large part of the year—are shown by lines of blue dots and dashes.

Relief is shown by contour lines in brown, which on a few maps are supplemented by shading showing the effect of light thrown from the northwest across the area represented, for the purpose of giving the appearance of relief and thus aiding in the interpretation of the contour lines. A contour line represents an imaginary line on the ground (a contour) every part of which is at the same altitude above sea level. Such a line could be drawn at any altitude, but in practice only the contours at certain regular intervals of altitude are shown. The datum or zero of altitude of the Geological Survey maps is mean sea level. The 20-foot contour would be the shore line if the sea should rise 20 feet above mean sea level. Contour lines show the shape of the hills, mountains, and valleys, as well as their altitude. Successive contour lines that are far apart on the map indicate a gentle slope, lines that are close together indicate a steep slope, and lines that run together indicate a cliff.

The manner in which contour lines express altitude, form, and grade is shown in the figure below.





The sketch represents a river valley that lies between two hills. In the foreground is the sea, with a bay that is partly enclosed by a hooked sand bar. On each side of the valley is a terrace into which small streams have cut narrow gullies. The hill on the right has a rounded summit and gently sloping spurs separated by ravines. The spurs are truncated at their lower ends by a sea cliff. The hill at the left terminates abruptly at the valley in a steep scarp, from which it slopes gradually away and forms an inclined tableland that is traversed by a few shallow gullies. On the map each of these features is represented, directly beneath its position in the sketch, by contour lines.

The contour interval, or the vertical distance in feet between one contour and the next, is stated at the bottom of each map. This interval differs according to the topography of the area mapped: in a flat country it may be as small as 1 foot; in a mountainous region it may be as great as 250 feet. In order that the contours may be read more easily certain contour lines, every fourth or fifth, are made heavier than the others and are accompanied by figures showing altitude. The heights of many points—such as road intersections, summits, surfaces of lakes, and benchmarks—are also given on the map in figures, which show altitudes to the nearest foot only. More precise figures for the altitudes of benchmarks are given in the Geological Survey's bulletins on spirit leveling. The geodetic coordinates of triangulation and transit-traverse stations are also published in bulletins.

Lettering and the works of man are shown in black. Boundaries, such as those of a State, county, city, land grant, township, or reservation, are shown by continuous or broken lines of different kinds and weights. Public roads suitable for motor travel the greater part of the year are shown by solid double lines; poor public roads and private roads by dashed double lines; trails by dashed single lines. Additional public road classification if available is shown by red overprint.

Each quadrangle is designated by the name of a city, town, or prominent natural feature within it, and on the margins of the map are printed the names of adjoining quadrangles of which maps have been published. More than 4,100 quadrangles in the United States have been surveyed, and maps of them similar to the one on the other side of this sheet have been published.

Geologic maps of some of the areas shown on the topographic maps have been published in the form of folios. Each folio includes maps showing the topography, geology, underground structure, and mineral deposits of the area mapped, and several pages of descriptive text. The text explains the maps and describes the topographic and geologic features of the country and its mineral products. Two hundred twenty-five folios have been published.

Index maps of each State and of Alaska and Hawaii showing the areas covered by topographic maps and geologic folios published by the United States Geological Survey may be obtained free. Copies of the standard topographic maps may be obtained for 10 cents each; some special maps are sold at different prices. A discount of 40 percent is allowed on an order amounting to $5 or more at the retail price. The discount is allowed on an order for maps alone, either of one kind or in any assortment, or for maps together with geologic folios. The geologic folios are sold for 25 cents or more each, the price depending on the size of the folio. A circular describing the folios will be sent on request.

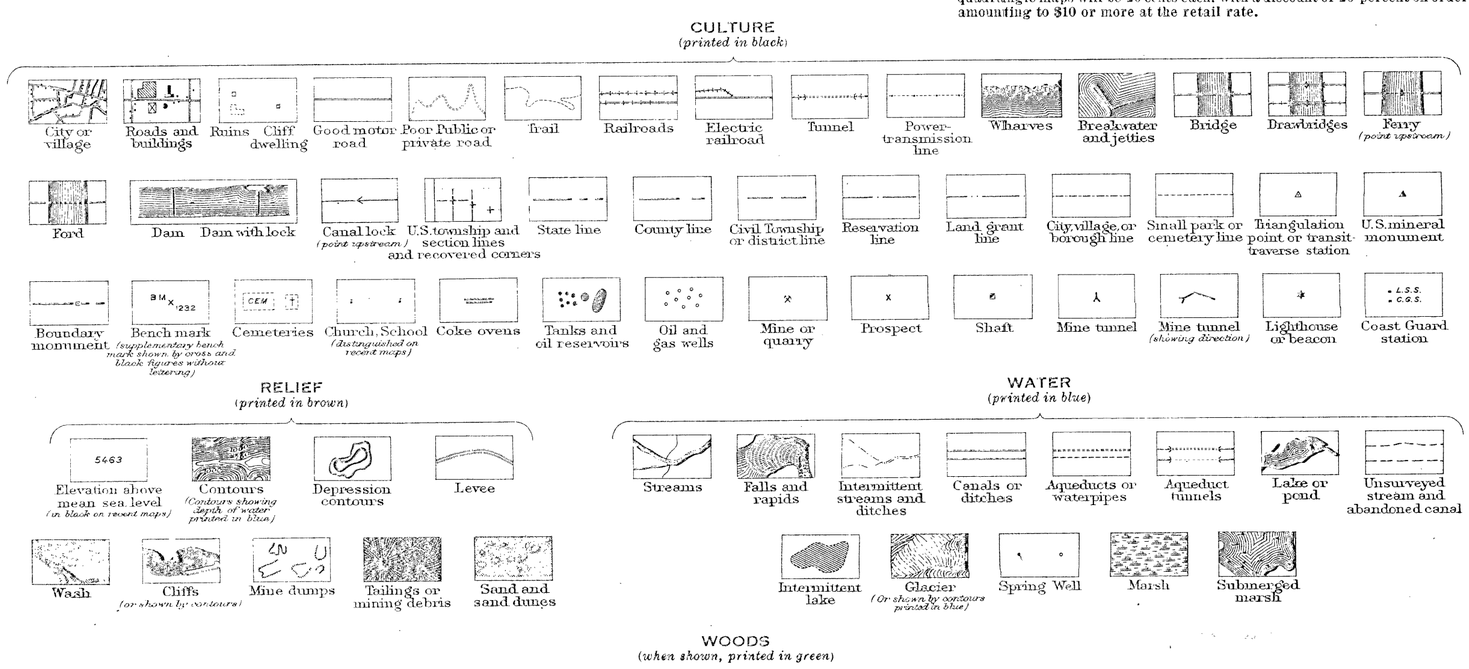
Applications for maps or folios should be accompanied by cash, draft, or money order (not postage stamps) and should be addressed to

THE DIRECTOR,
United States Geological Survey,
Washington, D. C.

November 1937.

NOTE:—Effective on and after October 1, 1946, the price of standard topographic quadrangle maps will be 20 cents each, with a discount of 20 percent on orders amounting to $10 or more at the retail rate.

STANDARD SYMBOLS



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Also shows
Geology by C.F. Withington
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Murphy