STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Ernest Wm. Ellis, DMEA Member, Uranium Commodity Committee

DATE: September 5, 1952

FROM : A. P. Butler, Jr., USGS Member, Uranium Commodity Committee

SUBJECT: Field Team Report DMEA Docket 2534 (uranium), Juanita Mining Company, Grand Junction, Colorado: Applicant, Juanita Group, Yellow Cat Area, Grand County, Utah

I have reviewed the report identified above and concur with the recommendations of the examining team that exploration assistance be denied for exploration of the property involved.

Arthur P. Butler, Jr.

Arthur P. Butler, Jr.

Copy to: Ernest Wm. Ellis (2)

IN REPLY REFER TO:

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

September 5, 1952

Ernest Wm. Ellis, DMEA Member, Uranium
Commodity Committee
A. P. Butler, Jr., USGS Member, Uranium
Commodity Committee
Field Team Report DMEA Docket 2534 (uranium), Juanita Mining
Company, Grand Junction, Colorado: Applicant, Juanita
Group, Yellow Cat Area, Grand County, Utah

I have reviewed the report identified above and concur with the recommendations of the examining team that exploration assistance be denied for exploration of the property involved.

Arthur P. Butler, Jr.

Copy to: Ernest Wm. Ellis (2)

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

224 New Customhouse
Denver 2, Colorado

August 15, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2534 (Uranium), Juanita Mining Company, Grand County, Utah

Enclosed are four copies of the final report on DMEA 2534, two copies of Form 3b, and a copy of the letter of denial to the applicant.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

cc SRWilson w/copy final report
RRoberts w/copy final report
Mining Div. w/copy final report
AHKoschmann w/copy final report
DMA Final Report
TWOster w/copy final report
RPFischer w/copy final report

C
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P
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UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Washington 25, D. C.

BL

224 New Customhouse
Denver 2, Colorado

August 15, 1952

Juanita Mining Company
c/o Mr. C. S. Barton
Route 4
Grand Junction, Colorado

Dear Mr. Barton:

Reference is made to your application for Government aid in exploration work on the Juanita Group.

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

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application for Government aid is denied.

Very truly yours,

/s/ W. H. King
W. H. King
Field Team, Region IV

/s/ A. H. Koschmann
A. H. Koschmann
Files Team, Region IV

HMC:jp
cc Actg. Administrator DMEA
SRWilson
Subject
Chron
A.HKoschmann (2)

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

200 New Customhouse
Denver 2, Colorado

August 8, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2534, Juanita Group, Yellow Cat Area, Grand County, Utah. (Uranium)

Enclosed are 11 copies of the geologic report by A. O. Taylor and D. C. Laub, of the U. S. Geological Survey, covering the above docket.

It has been recommended that the loan be denied.

The brochure is enclosed.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (12)

Room 206, 222 So. West Temple
Salt Lake City 1, Utah
5 August 1952

Memorandum

To: A. H. Kaschmann, Field Team Region IV

From: Ralph J. Roberts

Subject: Docket ERRA-2534, (Uranium) Juanita Group, Yellow Cat area, Grand County, Utah.

Enclosed are 11 copies of a geologic report on the Juanita Group Claims, Yellow Cat area, Grand County, Utah.

In response to a request for a field examination, dated May 23, 1952 from the Field Team Region IV an examination was made July 11, 1952 by A. S. Taylor and D. C. Lamb, Geologists, U. S. Geological Survey.

The uranium deposit is in the upper part of the Salt Wash member of the Morrison Formation of Jurassic age. The total production of uranium ore from the Juanita Group of claims is 15 tons, which was produced from one well and all available uranium ore was mined out. There are no indicated or inferred ore reserves and the outlook for discovering important bodies of uranium ore is not good. It is therefore recommended that an exploration loan be denied.

I concur with the conclusions and recommendations of the examining geologists that the request for an exploration loan be denied.

for - Ralph J. Roberts

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Project DMEA-2534. (Uranium) Zumbie Group

Yellow Cat Area, Grand County, Utah

A. O. Taylor and R. C. Lamb, Geologists
U. S. Geological Survey

August 5, 1952

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Ore Reserves	2
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Summary and Conclusions	3

ILLUSTRATIONS

Figure 1. Index Map of Utah and Colorado

DMEA Docket 2534 (Uranium) Juanita Group

Yellow Cat area, Grand County, Utah

INTRODUCTION

The Juanita Mining Company, DMEA Docket 2534, has applied to the Defense Minerals Exploration Administration for a loan of $10,827.00 to be used for the exploration of uranium on the Juanita claims, Yellow Cat area, Grand County, Utah.

A field examination was requested by the Field Team Region IV, May 23, 1952. The examination was made by A. G. Taylor and D. C. Lamb of the U. S. Geological Survey July 11, 1952.

Location and accessibility

The Juanita claims are located on a relatively flat isolated mesa of low relief 32 miles southeast of Thompson, Utah in Secs. 14 and 23, T. 23 S., R. 21 E. The mine can be reached via U. S. Highway 50 by traveling 5.4 miles east of Thompson, Utah, thence southeast 16 miles on a graded road to the claims (Fig. 1).

History and production

The Juanita Group of claims, having been located within the past year, have had little production and no previous exploration work. The total production is reported by the owners to be 15 tons of ore that averaged 0.30 percent U_3O_8 and about 2.0 percent V_2O_5 per ton.

The property consists of five unpatented claims and is held by the Juanita Mining Company by purchase option agreement with the Strategic Minerals Exploration Company.

There are no underground workings on the claims.

GEOLOGY

The rocks in the area are Jurassic in age. The Salt Wash member of the Morrison formation caps the mesa, and is composed of cross-bedded sandstones with lenses of red and locally grey clay separating the sandstone members. The beds are comparatively flat lying with a regional dip of 4° north.

The uranium ore deposits of the Yellow Cat area are found in sandstone lenses and rolls associated with carbonaceous plant remains in the upper part of the Salt Wash member of the Morrison formation.

ORE DEPOSITS

There are no visible ore deposits in the Juanita Group of claims. Evidence of one small roll on the northwest side of the mesa is expressed by two small stringers of uranium-bearing material from 2 to 6 inches thick. This roll appears to trend N. 45° E. The chief uranium mineral is carnotite. It is associated with a dark vanadium-bearing sandstone. North of the roll on the northwest rim of the mesa, a one-half inch stringer of black hydrocarbon in white porous sandstone crops out for a distance of about 8 feet.

The stain on the east side of the mesa which the applicant called "uranium bloom" was not radioactive or fluorescent. A qualitative test for vanadium, made by the U. S. Bureau of Mines, Salt Lake City, Utah, showed only a trace.

ORE RESERVES

There are no indicated or inferred ore reserves. No surface indications of uranium-bearing sandstone were observed on top of the mesa or around the rim. The applicant's map shows a channel scour that trends southeast from the roll; no evidence of a channel scour or altered green clay was found on the east side of the mesa. The only evidence of mineralization on the east rim was the greenish-yellow efflorescence containing a trace of vanadium and called "uranium bloom" by the applicant.

PROPOSED EXPLORATION

The applicant proposes that 26 wagon drill holes be drilled to a depth of 60 feet in an area around the mined well, and an additional 44 wagon drill holes be drilled at right angles to the long axis of the well in a southeast direction to test for ore pulls in the supposed channel.

The diamond drill holes, which include 20 holes not to exceed 200 feet in depth, are laid out in three lines parallel to the long axis of the mined well. This drilling is designed to penetrate the lowest sandstone bed of the Salt Wash member and to pick up any mineralized channel scours.

This program does not appear to be geologically sound, because of the lack of evidence of other undiscovered bodies of ore, and due to the small area involved. There is considerable doubt that enough ore could be developed to justify the applicant's exploration program.

SUMMARY AND CONCLUSIONS

The uranium deposit at the Jurassic Group of claims, Grand County, Utah was found in a local pull in the Salt Wash sandstone member of the Morrison Formation of Jurassic age. The deposit has an apparent trend of N. 45° E. The total production for the Jurassic Group of claims is 15 tons of uranium ore averaging 0.30 percent U_3O_8 which came from one pull.

There is no evidence of a channel scour or altered green clay lenses on the east side of the mesa; no uranium mineralization was noted around the rim of the mesa. There are no indicated or inferred ore reserves, and there is no evidence of important undiscovered ore bodies of uranium ore. It is considered that the Jurassic Group does not warrant further exploration and it is therefore recommended that the application be denied.

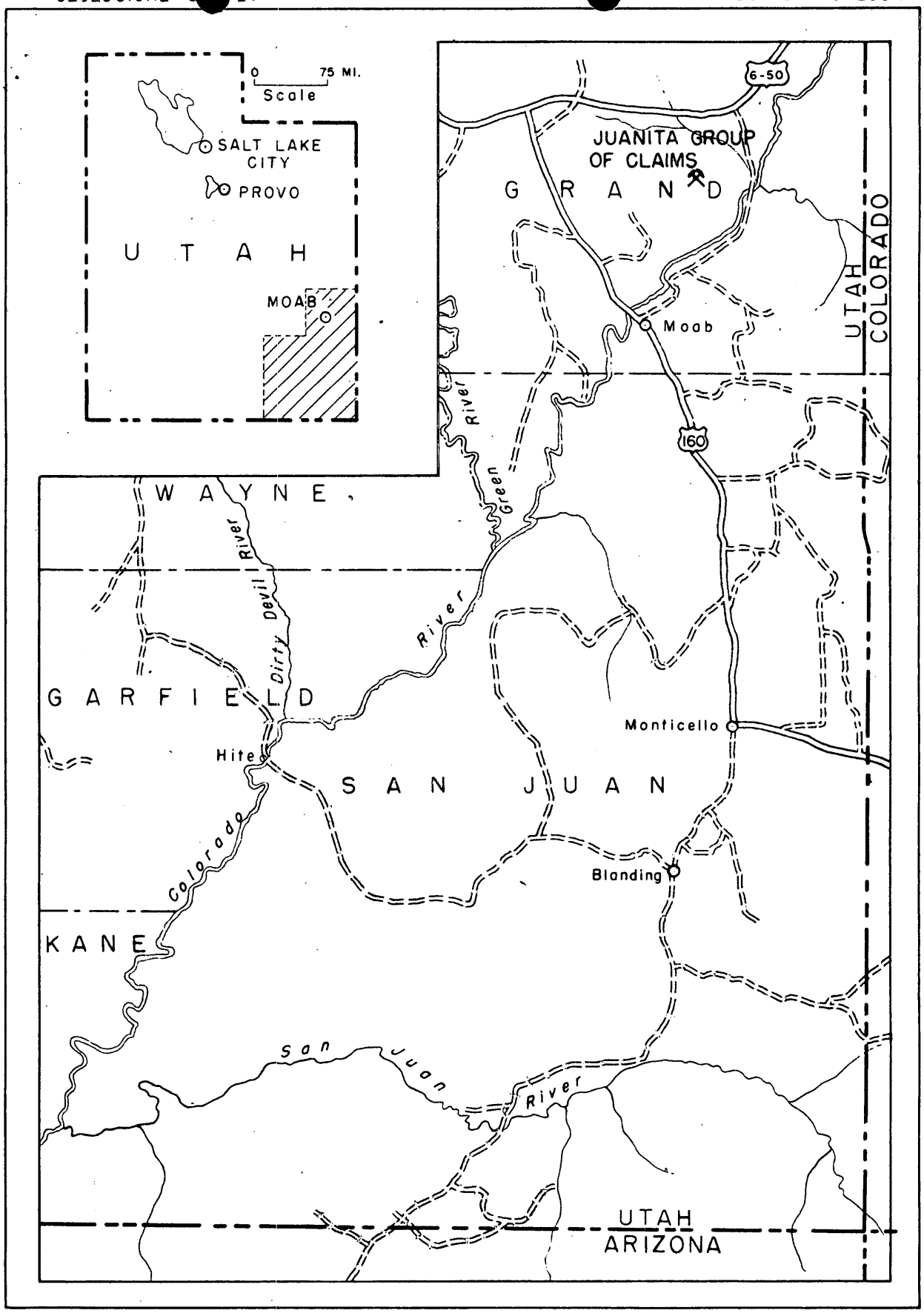

FIG. I INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

C
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P
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UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Washington 25, D. C.

224 New Customhouse
Denver 2, Colorado

August 15, 1952

Juanita Mining Company
c/o Mr. C. S. Barton
Route 4
Grand Junction, Colorado

Dear Mr. Barton:

Reference is made to your application for Government aid in exploration work on the Juanita Group.

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

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application for Government aid is denied.

Very truly yours,

/s/ W. H. King
W. H. King
Field Team, Region IV

/s/ A. H. Koschmann
A. H. Koschmann
Files Team, Region IV

HMC:jp
cc Actg. Administrator IMEA
SRWilson
Subject
Chron
A.HKoschmann (2)

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

224 New Customhouse
Denver 2, Colorado

August 15, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2534 (Uranium)
Juanita Mining Co., Grand County, Utah

Enclosed are four copies of the final report on DMEA 2534, two copies of Form 3b, and a copy of the letter of denial to the applicant.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

cc SRWilson w/copy final report
RRoberts w/copy final report
Mining Div. w/copy final report
AHKoschmann w/copy final report
DMA Final Report
TWOster w/copy final report
RPFischer w/copy final report

AUG 25 1952

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

200 New Customhouse
Denver 2, Colorado

August 8, 1952

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2534, Juanita Group, Yellow Cat Area, Grand County, Utah. (Uranium)

Enclosed are 11 copies of the geologic report by A. O. Taylor and D. C. Laub, of the U. S. Geological Survey, covering the above docket.

It has been recommended that the loan be denied.

The brochure is enclosed.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (12)

Room 306, 222 No. West Temple
Salt Lake City 1, Utah
5 August 1952

Memorandum

To: A. R. Kaufmann, Field Team Region IV

From: Ralph J. Roberts

Subject: Docket DOA-2516, (Uranium) Juanita Group, Yellow Cat area, Grand County, Utah.

Enclosed are 11 copies of a geologic report on the Juanita Group Claims, Yellow Cat area, Grand County, Utah.

In response to a request for a field examination, dated May 23, 1952 from the Field Team Region IV an examination was made July 11, 1952 by A. O. Taylor and R. C. Lamb, Geologists, U. S. Geological Survey.

The uranium deposit is in the upper part of the Salt Wash member of the Morrison formation of Jurassic age. The total production of uranium ore from the Juanita Group of claims is 15 tons, which was produced from one roll and all available uranium ore was mined out. There are no indicated or inferred ore reserves and the outlook for discovering important bodies of uranium ore is not good. It is therefore recommended that an exploration loan be denied.

I concur with the conclusions and recommendations of the examining geologists that the request for an exploration loan be denied.

Ralph J. Roberts

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMEA-2534, (Uranium) Juanita Group

Yellow Cat Area, Grand County, Utah

A. O. Taylor and D. C. Laub, Geologists
U. S. Geological Survey

August 5, 1952

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Figure 1. Index Map of Utah and Colorado

DMEA Docket 2534 (Uranium) Juanita Group

Yellow Cat area, Grand County, Utah

INTRODUCTION

The Juanita Mining Company, DMEA Docket 2534, has applied to the Defense Minerals Exploration Administration for a loan of $10,827.00 to be used for the exploration of uranium on the Juanita claims, Yellow Cat area, Grand County, Utah.

A field examination was requested by the Field Team Region IV, May 23, 1952. The examination was made by A. O. Taylor and D. C. Lamb of the U. S. Geological Survey July 11, 1952.

Location and accessibility

The Juanita claims are located on a relatively flat isolated mesa of low relief 22 miles southeast of Thompson, Utah in Secs. 14 and 23, T. 23 S., R. 21 E. The mine can be reached via U. S. Highway 50 by traveling 5.4 miles east of Thompson, Utah, thence southeast 16 miles on a graded road to the claims (Fig. 1).

History and production

The Juanita Group of claims, having been located within the past year, have had little production and no previous exploration work. The total production is reported by the owners to be 15 tons of ore that averaged 0.30 percent U_3O_8 and about 2.0 percent V_2O_5 per ton.

The property consists of five unpatented claims and is held by the Juanita Mining Company by purchase option agreement with the Strategic Minerals Exploration Company.

There are no underground workings on the claims.

GEOLOGY

The rocks in the area are Jurassic in age. The Salt Wash member of the Morrison formation caps the mesa, and is composed of cross-bedded sandstones with lenses of red and locally gray clay separating the sandstone members. The beds are comparatively flat lying with a regional dip of 4° north.

The uranium ore deposits of the Yellow Cat area are found in sandstone lenses and rolls associated with carbonaceous plant remains in the upper part of the Salt Wash member of the Morrison formation.

ORE DEPOSITS

There are no visible ore deposits in the Junnita Group of claims. Evidence of one small roll on the northwest side of the mesa is expressed by two small stringers of uranium-bearing material from 2 to 6 inches thick. This roll appears to trend N. 45° E. The chief uranium mineral is carnotite. It is associated with a dark vanadium-bearing sandstone. North of the roll on the northwest rim of the mesa, a one-half inch stringer of black hydrocarbon in white porous sandstone creeps out for a distance of about 8 feet.

The stain on the east side of the mesa which the applicant called "uranium bloom" was not radioactive or fluorescent. A qualitative test for vanadium, made by the U. S. Bureau of Mines, Salt Lake City, Utah, showed only a trace.

ORE RESERVES

There are no indicated or inferred ore reserves. No surface indications of uranium-bearing sandstone were observed on top of the mesa or around the rim. The applicant's map shows a channel scour that trends southeast from the roll; no evidence of a channel scour or altered green clay was found on the east side of the mesa. The only evidence of mineralization on the east rim was the greenish-yellow efflorescence containing a trace of vanadium and called "uranium bloom" by the applicant.

PROPOSED EXPLORATION

The applicant proposes that 26 wagon drill holes be drilled to a depth of 60 feet in an area around the mined roll, and an additional 44 wagon drill holes be drilled at right angles to the long axis of the roll in a southeast direction to test for more rolls in the supposed channel.

The diamond drill holes, which include 10 holes not to exceed 200 feet in depth, are laid out in three lines parallel to the long axis of the mined roll. This drilling is designed to penetrate the lowest sandstone bed of the Salt Wash member and to pick up any mineralized channel scours.

This program does not appear to be geologically sound, because of the lack of evidence of other undiscovered bodies of ore, and due to the small area involved. There is considerable doubt that enough ore could be developed to justify the applicant's exploration proposal.

SUMMARY AND CONCLUSIONS

The uranium deposit at the Juanita Group of claims, Grand County, Utah was found in a local roll in the Salt Wash sandstone member of the Morrison formation of Jurassic age. The deposit has an apparent trend of N. 45° E. The total production for the Juanita Group of claims is 15 tons of uranium ore averaging 0.30 percent U_3O_8 which came from one roll.

There is no evidence of a channel scour or altered green clay lense on the east side of the mesa; no uranium mineralization was noted around the rim of the mesa. There are no indicated or inferred ore reserves, and there is no evidence of important undiscovered ore bodies of uranium ore. It is concluded that the Juanita Group does not warrant further exploration and it is therefore recommended that the application be denied.

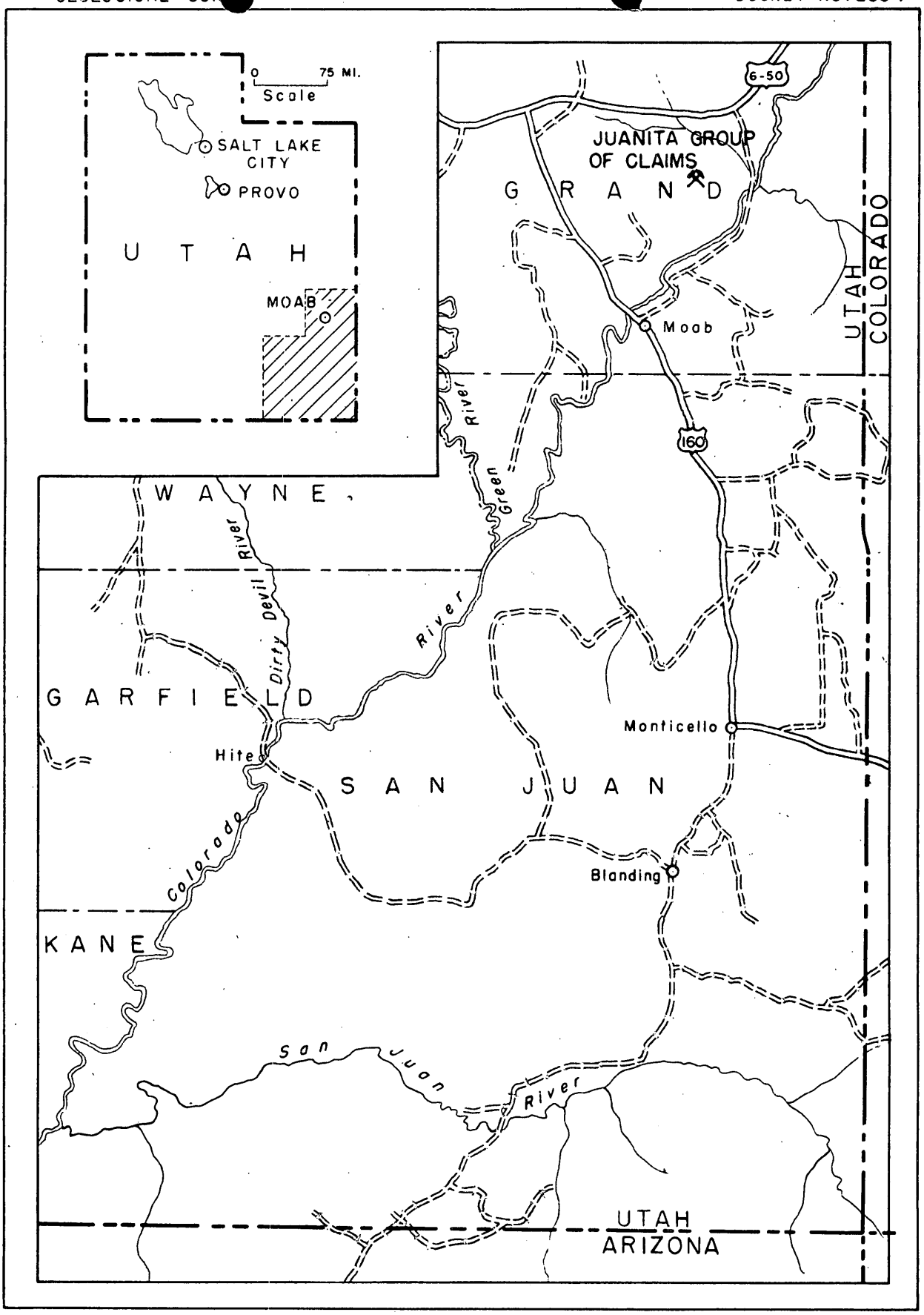

FIG. I INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

DMEA-2534

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

224 New Customhouse
Denver 2, Colorado

May 16, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
DENVER

MAY 19 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration - Attention: Code 210

From: Executive Officer, Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate are DMA Forms 3a and Forms MF-100 and MF-103 and supporting data pertaining to the following application for Government assistance in exploration work.

DMEA-2534 - Juanita Mining Co.
c/o C. S. Barton, Route 4
Grand Junction, Colorado

J. H. East, Jr.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2534
Metal or Mineral
Date Received 5-19-52
Amount $
Participation (Government %)

Name and address of applicant

Juanita Mining Company
% C. S. Barton
Route 4
Grand Junction, Colorado

Date May 6, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 19 1952

If you have already filed MF-100, give date filed attached to this application, type of assistance requested exploration loan,

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

JUANITA MINING COMPANY
(Name of company)

By C S Barton
(Signature of authorized official)

May 6, 1952
(Date)

Manager Partner
(Title)

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—64067-2

JUANITA MINING COMPANY
R[illegible]E #4
GRAND JUNCTION, COLORADO

FORM MF-103

1. a. The real property for which an exploration loan is being requested includes 100 acres more or less on 5 unpatented mining claims known as the Juanita Group lying in Sections 14 and 23 of Township 23 South, Range 21 East of Salt Lake Principal Meredian. The Juanita Group consists of the following claims:

Juanita
Juanita No. 1
Juanita No. 2
Juanita No. 3
Juanita No. 4

b. See copy of attached lease-option agreement

c. Same as a above

JUNITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-103

2. a. Uranium and vanadium are the minerals expected to be found.

b. See attached report.

JUAN[illegible] MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-103

3. a. Exploration Plans

Wagon drilling and diamond drilling are the most feasable and economical types of exploration for this area. Wagon drilling is suggested for most of the exploration, however, one line of diamond drill holes is proposed to penetrate the lowest productive sand to pick up any other mineralized channels not shown on surface.

First stage drilling

Close spaced wagon drill holes around the exposed zone of alteration along the mined roll. It is expected that parallel rolls may be found along extensions of the two exposed mineralized seams. These holes should be spaced at 25 foot intervals in an arc around the workings. (Figure 5). This drilling would include 26 holes averaging about 60 feet in depth and 7 blocking out holes of the same depth. No blocking out holes are shown on Figure 5. Total footage in the first stage drilling would be 2000 feet.

Second stage drilling

This drilling would include 44 holes in three parallel lines which would have a bearing of S 45 E and would follow the mineralized zone across the mesa. The holes would be spaced at 50 foot intervals on the lines and the lines would be spaced 100 feet apart. Since the rolls in the Yellow Cat Area in general have a bearing of N 45 E, this would necessitate closer spaced holes on the lines than the spacing between the lines. This class would include 44 holes averaging 60 feet deep or a total of 2640 feet. An additional 2360 feet should be reserved for close spaced blocking out of ore on stage 2 and 3. This would include a total of 5000 feet of drilling.

Third stage drilling

This drilling, which would include 10 holes averaging 100 feet in depth, should be done to explore the lowest favorable sandstone in the Salt Wash formation and to pick up other mineralized zones paralleling the main trend. This drilling is suggested as diamond drilling rather than wagon drilling because of the emphasis on the structure which will be necessary to guide this type and because of the depths. The author feels that wagon drilling is not satisfactory for geologic information at depths below 80 feet because of the dilution in the cuttings below this depth. The diamond drill holes should be spaced at 200 foot intervals on a line bearing N 45 E. This phase should include 1000 feet of diamond drilling.

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-103

(3a continued)

Cost of exploration

Wagon drilling 0.80/ft. 7000 ft.	$ 5600.00
Diamond drilling 2.50/ft. 1000 ft.	2500.00
Supervision	1520.00
Labor	702.00
Other	505.00
Total cost of exploration	$10827.00

3. b. The project could be started within one month from the date of approval and would require two months to complete provided the major portion of the work was during the period from May to December.

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-103

4. See attached report and accompanying maps.

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-103

5. There are no existing facilities and none would be necessary for a project of such short duration. Contract drilling crews would provide own housing as is customary under these contracts. The mining company's personnel would live in portable trailers provided by the company at no cost to the government.

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-103

6. No additional facilities are needed. (See Item 5).

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

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7. a. None

b. None

c. None

Since the exploration work consists of drilling ~~and rim stripping,~~ it is more economical to contract this type of work.

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

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8. Labor - (Not including contract labor)

1 each - Sampler - Field Asst. 1.50/hr	$ 702.00
Supervision	
1 each-Supervisor $600/mo.	1200.00
1 each-Consultant Engineer 4 days/mo. $40.00/day	320.00
Total	$2222.00

* All cost items are based on two-months operation, 8 hours per day and 6 days per week.

JUANITA MINING COMPANY
ROUTE #1
GRAND JUNCTION, COLORADO

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9. Other costs based on two-months operation.

Accounting-$20.00 per month	$ 40.00
Assays-10 check samples per month $5.00/sample	100.00
Expendable supplies	
Fuel, gasoline, vehicle operation, total 300 gal., @0.30/gal.	90.00
Groceries 2-1/5 men per day @ 2.00/day	225.00
Engineering supplies and map reproduction $10.00 per month	20.00
Government report typing	30.00
	$505.00

JUANITA MINING COMPANY
ROUTE 24
GRAND JUNCTION, COLORADO

FORM MF-103

10. a. One-tenth of the total amount of the agreed exploration costs.

b. Yes.

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-103

11. None

Form MF-100
(May 1951)

DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2534

Date received 5-19-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 19 1952

Juanita Mining Company
% C. S. Barton
Route 4
Grand Junction, Colorado

Name and address of applicant

Date May 6, 1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
   } See attached sheet
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).
   } See attached sheet
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
   } See attached sheet
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☐ Owner.
   ☐ Lessee.
   ☐ Contractor.
   } See attached sheet
5. Number of years in production 2 months
   If not in production or operation, estimated date when production will begin
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project. See attached sheet
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

See attached sheet

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8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
C. S. Barton Route #4 Grand Junction, Colo.	Manager	None	$10,000	37½% interest in partnership		None	
John Wm. Woods 209 S. LaSalle St. Chicago, Illinois	Partner	None	$20,000	37½% interest in partnership		None	
Phil Gilbert Chicago, Illinois	Partner	None	$20,000	25% interest in partnership		None	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ None	$	$		
Preferred stock	$ None	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	Carnotite Ore				10 short tons
2. Quantity of product processed (specify unit of measure and type of process)	Not applicable				
3. Quantity and grade of product sold or shipped (specify units of measure)	Carnotite Ore				10 short tons

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.)See attached sheet

12. Ore or Mineral Reserves:

(a) Describe the ore or mine[illegible]posit briefly. Accompany the application by [illegible] available report on the geology and ore reserves.) See a[illegible]ned sheet

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-100

1. a. Chief mine and mill products are uranium and vanadium

   b. None

2. Name of properties:

   Juanita Group consisting of the following unpatented lode mining claims:

   Juanita
   Juanita No. 1
   Juanita No. 2
   Juanita No. 3
   Juanita No. 4

   The workings consist of an open cut approximately 100 feet long which followed along a carnotite roll which outcropped on surface.

3. a. The nearest town is Thompson, Utah which is approximately 21 road miles northwest of the Juanita Group. This is also the nearest shipping point and ore purchasing station.

   b. This area is generally called the Yellow Cat District (unorganized), however, it is sometimes referred to as the Inter-River District.

   c. The claims lie in Section 14 and 23 of Township 23 South, Range 21 East of the Salt Lake Principal Meredian.

   d. Grand County, Utah

4. a. The property is being mined at present by the Juanita Mining Company. The Juanita Mining Company also leased the upper exposed sanstone rim for a time to a private mining company. This temporary lease, however, has been terminated.

   b. The Juanita Mining Company is operating the property under a lease-option agreement.

5. Production on this property was started two months ago when the Juanita Mining Company constructed 1½ miles of road to the claims.

6. a. Experience of applicant

   <u>Clarence S. Barton</u>

1939-1944	Pine Bluff Motor Co. Pine Bluff, Wyoming	Managing Partner

FORM MF-100

(6-a continued)

1944-1948	Self	Various business enterprises
1948-1952	Junction Motors	Manager

Interested in mining since 1949. With various mining groups since 1949.

John WM Woods

Mr. Woods is a successful industrial real estate and oil investor.

b. Experience of persons who will manage the property

1. Mr. Clarence S. Barton - See 6a above.

2. John I. Schumacher - Will act as consultant engineer and his experience is listed below:

1943	Phelps-Dodge Corporation	Test Engineer (Milling)
1943	U.S. Bureau of Mines	Mining Engineer-Development drilling project, Colorado Plateau
1944-1946	U.S. Army	Ordnance Officer-Heavy duty and light equipment maintenance
1946-1948	U.S. Bureau of Mines	Project Engineer, Development of phosphate, lead, zinc and other metallics, Colorado Field Office
1948-1950	U.S. Geological Survey	Project Engineer, Exploration drilling throughout Colorado Plateau
1951	Strategic Minerals Exploration Company	Managing Partner-Exploration, consulting and diamond drilling for uranium and vanadium

7. a. See attached report

b. See attached report

c. See attached report

8. See Form MF-100

JUANITA MINING COMPANY
ROUTE #4
GRAND JUNCTION, COLORADO

FORM MF-100

9. Not applicable

10. See Form MF-100

11. Since no reserves are in sight at present, the operation at this time will be discontinued until further reserves are found through exploration.

12. a. See attached report

    b. Not applicable

13. See attached report

14. See attached report

15. See attached report

16. See attached report

17. See attached report

18. None

(*b*) If deposit is other than pl[illegible]

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	None				
Indicated (probable)	None				

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:) See attached report

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:) See attached report

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:) See attached report

State amount of power used, rate per hour, and source thereof.

16. Labor:) See attached report

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:) See attached report

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

None

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

JUANITA MINING COMPANY
(Name of company)

By C S Barton
(Signature of authorized official)

May 6, 1952
(Date)

Managing Partner
(Title)

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—63792-1

REPORT OF INVESTIGATION OF THE JUANITA GROUP-YELLOW CAT AREA GRAND COUNTY, UTAH

INTRODUCTION

This report covers the examination of the Juanita Group of claims including approximately 100 acres and held by the Juanita Mining Company which are included in a request for a D.M.E.A. Exploration Loan. The claims in this group include the following:

Juanita
Juanita No. 1
Juanita No. 2
Juanita No. 3
Juanita No. 4

The above claims are held by the Juanita Mining Company by purchase option agreement dated February 26, 1952 between the company and Strategic Minerals Exploration Company.

LOCATION AND PHYSIOGRAPHY

The above claims are in the Yellow Cat Area, Sections 14 and 23 of Township 23 South, Range 21 East, Grand County, Utah. The two sections above lie in the narrow strip between the Arches National Monument and the area withdrawn by the Atomic Energy Commission for uranium exploration. (See Figure 2). The group is 21 road miles, southeast of Thompson, Utah and 17 miles from Cisco, Utah. Cisco is 65 miles and Thompson is 85 miles west of Grand Junction, Colorado on U.S. Highway 50.

These claims cover most of a mesa of low relief which is on the northeast side of Salt Valley Anticline at an elevation of 5200 feet. In normal winters the area receives little snow and not over 10 inches of precipitation the entire year. Road building and maintenance is comparatively easy considering the more difficult terrain of the Colorado Plateau in general.

The upper benches are covered with a plentiful supply of Pinon and Juniper which can be used for mine timbers.

Ore buying stations are located in Thompson, Utah and Grand Junction, Colorado. Thompson is the nearest railhead.

GEOLOGY

The geology of the Yellow Cat Area in general is similar to that of other parts of the Colorado Plateau. The highest bed stratigraphically within the area is the Mancos shale underlain by the Dakota sandstone and Morrison formations. The lowest bed exposed in the area proper is the Entrada Sandstone. As in other areas the main production is from the Salt Wash member of the Morrison formation and the upper sandstone unit of this member contains the largest and most productive ore bodies. One exception to this, however, is the Cactus Rat Mine which is found in the basal conglomerate of the Brushy Basin member of the Morrison which lies directly over the Salt Wash member. Several deposits have been in the lower units of the Salt Wash member.

The Yellow Cat Area is relatively flat and of low relief. The general dip of the beds is 3 to 5 degrees to the north. The Salt Valley anticline forms the southwestern boundary while the Dolores River and Labal Mountain uplift form the southeast boundary. To the north and east the area is terminated by the gentle dipping of the beds toward the Uinta Mountains.

The Salt Wash member is exposed irregularly for about 20 miles along an east-west line through the district and about ten miles along a northwest line on the flank of the Salt Valley anticline. The Juanita group lies on a nose on the northeast facing slope of this anticline.

The structure of the Salt Valley anticline appears to have had a greater influence on the deposition of ore than the structures of the Yellow Cat Area itself. Most of the deposits of the Yellow Cat Area are relatively flat lying, thin and the vanadium-uranium ratio is higher in vanadium than the average for the Plateau. On the Juanita Group the ore thus far mined is estimated to be higher in uranium and lower in vanadium content and generally thicker. The ore on these claims lie in the upper unit of the Salt Wash member of the Morrison, and in an elongated sandstone lens showing an altered zone and uranium "bloom" where it is cut by the small canyons which form the northeast drainage pattern for the area. The long axis of this sandstone lens roughly parallels the axis of the Salt Valley anticline and lies about midway between the crest and the trough. R. C. Coffin in the report "Radium, Uranium and Vanadium Deposits of Southwestern Colorado" suggests that the flow of mineralizing solutions was along the folds but neither in the trough nor the crest.

The original deposit was a high grade roll outcropping about 50 feet along the rim on the northeast side of the mesa. The roll had a maximum outside diameter of about four feet, a portion of which had been removed by erosion. The uranium penetrates the wall rock in places to a depth of four inches showing that the original mineralizing solutions must have been predominately strong uranium bearing solutions. The axis of the roll parallels the joint system and is perpendicular to the long axis of the sandstone lens. Low grade vanadium which is often an indicator of nearby ore has been found along the next paralleling joint plane suggesting the presence of another roll. Abundant surface uranium "bloom" along the east side of the mesa at the outcrops of the joint planes would also suggest the presence of ore behind the rim.

HISTORY AND PRODUCTION

The Juanita Group Claims having been located within the past year have had little production and no previous exploration work. The Juanita and Juanita No. 1 were discovered in June 1951 by the Strategic Minerals Exploration Company and the Juanita No. 2, Juanita No. 3 and Juanita No. 4 were located in December 1951 by the same company. The Juanita Mining Company acquired the property in February 1952 and constructed the road from the east side of Salt Wash to the claims in March and since that time approximately 15 tons of ore have been produced from the outcropping ore and adjacent ore bodies.

The main reason for the lack of production from the western part of the Yellow Cat Area has been the lack of roads. The mile and one-half of road constructed by the Juanita Mining Company at a cost of approximately five hundred dollars will undoubtedly assist in opening up this section.

The Yellow Cat Area in general has had an intermittent production paralleling the carnotite field since 1912. The Yellow Cat mine proper which is approximately 3 air miles from the Juanita Group has had the greatest production. The U.S. Bureau of Mines report "Exploration of Vanadium Region of Western Colorado and Eastern Utah", states "occurrence of ore in roll or lenses striking east to northeast are common and most of the ore mined is of higher grade than average for the vanadium region as a whole". The U.S. Bureau of Mines had a successful drilling program in the Yellow Cat Area in 1943. At present the U.S. Geological Survey has withdrawn fifty square miles of the Yellow Cat Area and is conducting an extensive drilling program there. The withdrawn area is contiguous with, but does not cover these claims.

EXPLORATION PLANS

Wagon drilling and diamond drilling are the most feasable and economical types of exploration for this area. Wagon drilling is suggested for most of the exploration, however, one line of diamond drill holes is proposed to penetrate the lowest productive sand to pick up any other mineralized channels not shown on surface.

First stage drilling.

Close-spaced wagon drill holes around the exposed zone of alteration along the mined roll. It is expected that parellel rolls may be found along extensions of the two exposed mineralized seams. These holes should be spaced at 25 feet intervals in an arc around the workings. (Figure 5). This drilling would include 28 holes averaging about 60 feet in depth and 7 blocking out holes of the same depth. No blocking out holes are shown on Figure 5. Total footage in the first stage drilling would be 2000 feet.

Second stage drilling.

This drilling would include 44 holes in three parallel lines which would have a bearing of S 45 E and would follow the mineralized zone across the mesa. The holes would be spaced at 50 foot intervals on the lines and the lines would be spaced 100 feet apart. Since the rolls in the Yellow Cat Area in general have a bearing of N 45 E, this would necessitate closer spaced holes on the lines than the spacing between the lines. This class would include 44 holes averaging 60 feet deep or a total of 2640 feet. An additional 2360 feet should be reserved for close spaced blocking out of ore on stage 2 and 3. This would include a total of 5000 feet of drilling.

Third stage drilling.

This drilling, which would include 10 holes averaging 100 feet in depth, should be done to explore the lowest favorable sandstone in the Salt Wash formation and to pick up other mineralized zones paralleling the main trend. This drilling is suggested as diamond drilling rather than wagon drilling because of the emphasis on the structure which will be necessary to guide this type and because of the depths. The author feels that wagon drilling is not satisfactory for geologic information at depths below 80 feet because of the dilution in the cuttings below this depth. The diamond drill holes should be spaced at 200 foot intervals on a line bearing N 45 E. This phase should include 1000 feet of diamond drilling.

Cost of Exploration.

Wagon drilling 0.80/ft. 7000 ft.	$ 5600.00
Diamond drilling 2.50/ft. 1000 ft.	2500.00
Supervision	1520.00
Labor	702.00
Other	505.00
Total cost of exploration	$10827.00

GUIDES TO EXPLORATION

From workings in the Yellow Cat Area and the Juanita Group workings, it is evident that the ore zones occur in and along an altered cross-bedded sandstone that is underlain by a brownish green altered mudstone or siltstone. Limonite is associated with the ore not as a spotting of the altered sandstone as in many areas but as a limonite stain that completely saturates sections of the altered sandstone. This limonite

sandstone contains seams and vugs of carbon. The intersection of these carbon seams, which may contain appreciable quantities of carnotite, often make a typical roll of ore. Usually a course unaltered gypsum sandstone containing clay galls, lies near the ore. Manganese, although often found near ore, seems to have no direct relation to the ore.

A considerable amount of limonite stained sandstone is found on surface of the claims and may indicate mineralization at depth. The rolls in this area often parallel the northeast trending joint pattern and carnotite stain is found at the intersection of these joints and east rim of the mesa.

These indications of ore should be closely observed in the planned drilling and additional offset holes should be spaced within 10 feet if mineralization is encountered.

LABOR AND LIVING CONDITIONS

Labor with the exception of diamond drillers is in adequate supply. Prevailing wage scale for the various types is listed below:

Labor and muckers	$1.20 per hr.
Miners	1.50 per hr.
Drillers (core and wagon drill)	1.75 per hr.
Drill samplers	1.50 per hr.

Living facilities for drilling crews on exploration projects are provided either by the drilling company or the men themselves. Drilling crews on a project of such short duration (2 months) would live in portable trailers. The Juanita Mining Company would furnish living facilities for its own personnel.

SUPPLIES

Food supplies, powder, fuse, caps and station gasoline can be

purchased in Thompson, Utah, however, large quantities of these items, as well as mining machinery, should be purchased in Grand Junction, Colorado. Thompson, Utah is 21 miles and Grand Junction is 82 miles from the Juanita Group. Thompson, Utah is the nearest railhead.

WATER SUPPLY

Water for domestic use is hauled from Thompson or Cisco, Utah. Adequate water for a small drilling program can be taken from two springs in Salt Wash where the wash cuts through the Entrada formation. Natural sumps form a storage space for enough water for two drills. These sources are approximately one mile from the Juanita Group.

ACCESS ROADS

Suitable access roads from U.S. Highway 50 service this area. These roads are graded truck trails which normally give little difficulty except for short periods in rainy weather or spring thaws.

No additional roads would be necessary for the planned exploration work as the mesa is relatively flat and a truck or drill can move about with ease.

EQUIPMENT AND FACILITIES

No equipment or facilities are at these claims and no additional facilities, except temporary living quarters, would be necessary. These temporary quarters would be provided by the contractors and the Juanita Mining Company at no cost to the government.

CONCLUSION

The Juanita Group although relatively undeveloped, is favorably situated both geologically and geographically. Enough favorable geologic criteria is present to warrant an exploration program of the size recommended. The size and grade of the carnotite roll that was originally exposed on surface and has subsequently been mined would give reason to believe that other parallel rolls exist nearby which would sustain an operation of approximately 10 tons per day.

John I. Schumacher

JOHN I. SCHUMACHER
Registered Mining Engineer

NOTE

Before the present operations were started, two samples were cut on the roll by the author. These samples are listed below:

U_3O_8	V_2O_5	LOCATION
0.25	3.84	Extreme east end of roll
1.23	1.65	Across middle of roll

Assays were made by U.S. Vanadium Corporation.

John I. Schumacher

JOHN I. SCHUMACHER

MINING LEASE AND OPTION

THIS AGREEMENT, Made and entered into in triplicate as of February 26, 1952, by and between STRATEGIC MINERALS EXPLORATION COMPANY, with headquarters in Grand Junction, Colorado, hereinafter called Lessor, and JOHN WM. WOOD, of 209 So. La Salle Street, Chicago, Illinois, and C. S. BARTON, of Grand Junction, Colorado, partners under a limited partnership doing business as JUANITA MINING COMPANY, hereinafter called Lessee, WITNESSETH:

R E C I T A L S

Lessor is the owner of the following described lode mining claims situated in the Thompson Mining District, Yellow Cat Area, to-wit: The Juanita, Juanita No. 1, Juanita No. 2, Juanita No. 3 and Juanita No. 4, the location certificates to each of said mining claims being duly of record in the office of the county recorder of said county and state, reference to which being hereby made for a more particular description thereof. Lessor desires to lease said mining claims to lessee and grant an option to lessee to purchase the same. Accordingly, lessor, for and in consideration of the royalties to be paid and the covenants to be kept and performed by lessee, has leased, let, and demised unto lessee for the development, mining, and sale of ores, all of the mining claims above-described and all appurtenances thereunto belonging, hereby warranting unto lessee that he has a good possessory title to each of said mining claims.

The period of this lease shall be five (5) years from the date hereof unless prior thereto abandoned by lessee or sooner terminated by lessor for a violation of any covenant hereinafter provided to be kept and performed by lessee.

LESSEE'S COVENANTS

In consideration of said lease, lessee hereby covenants with lessor as follows:

1. To pay lessor, as advance royalty hereunder, the sum of $2000, upon the execution and delivery of this lease and the option hereinafter mentioned to lessee by lessor.

2. To cause to be paid to lessor a royalty of 10% of the proceeds of ores mined and sold from said claims, including 10% of any bonus payment paid by the Atomic Energy Commission, less, however, development and haulage charges; all royalty and other payments, including said payment of $2000, shall apply on the purchase price of said claims as hereinafter set forth. All production and other taxes levied and assessed against said mining claims, or any of them, shall be paid by lessee for the years when they become due and payable.

3. During the period of this lease, lessee shall comply with all laws and regulations pertaining to the mining operations carried on hereunder, and shall promptly pay and discharge all claims and accounts incurred by it hereunder, and shall indemnify and save harmless lessor from all actions and causes of action of any nature whatsoever, which may or might arise out of mining operations hereunder. This covenant shall include the payment of all Federal taxes and exactions lawfully chargeable against such mining operations.

4. In the event lessee employs four or more employees, it shall take out and maintain Workmen's Compensation Insurance, furnishing evidence thereof to lessor, or his authorized agent or attorney, and any failure of lessee to comply therewith shall immediately render this lease null and void.

5. Lessee shall make available to lessor, his agent or attorney, all drilling and production records, including expenditures for work performed hereunder, at any and all reasonable times, and, in the event of abandonment of this lease as hereinafter provided, such drilling and production records shall be turned over to lessor.

OPTION PROVISIONS

In consideration of the advance royalty payment of $2000 as aforesaid and the expenditures to be made under the foregoing lease and the well and faithful keeping of the covenants thereof, lessee shall have the right to purchase said mining claims by the payment in royalties or money of the sum of $10,000, to be paid on or before February 26, 1957. Upon the completion of said payment, lessor shall make, execute, and deliver, at his own cost and charge, a good and sufficient mining deed, to be delivered to lessee conveying said mining claims clear of any encumbrance made by him.

ABANDONMENT AND FORFEITURE PROVISIONS

IT IS MUTUALLY AGREED That if the exploration and development of said mining claims by lessee does not, in lessee's opinion, result in the disclosure of commercial or marketable uranium-vanadium ores which may be mined and sold by lessee at a profit, it shall have the right to abandon this lease; PROVIDED, HOWEVER, That not less than three months written notice be given lessor prior to July first of any year, beginning with the year 1953, so that if the annual labor required by law has not been performed by lessee in such assessment year, lessor may have not less than three months in which to perform such assessment work, and in the event of such abandonment, lessee shall have 30 days from and after the date of the receipt of such notice by lessor to remove from said claims any and all equipment and personal property belonging to it.

Upon violation by lessee of any of the covenants in the foregoing lease, the term thereof shall, at the option of lessor, expire, and the same and said mining claims shall become forfeited to lessor, and lessor, or his agent, may thereupon enter upon said mining claims and dispossess all persons occupying the same, or, at the option of lessor, lessee and all persons found in occupancy thereof may be proceeded against as guilty of unlawful detainer; PROVIDED, HOWEVER, That if said lease is forfeited upon the election of lessor by reason of the failure of lessee to perform the covenants thereof, lessor shall give lessee, at Grand Junction, Colorado, not less than 20 days notice in writing, by registered mail, notifying lessee of such failure to perform and setting out in said notice the substantial facts as to any such default or breach, and upon failure or refusal by lessee to cure and correct such default within 10 days from the receipt of such notice, lessee shall surrender and deliver up the possession of all of said mining claims and its rights under this lease shall thereupon cease and terminate.

The abandonment or forfeiture of this lease shall terminate all rights granted lessee to purchase said mining claims under the foregoing lease, and the lease and option herein shall always be deemed and considered as one inseparable agreement between the parties hereto, and, upon such abandonment or forfeiture, lessor shall be entitled to keep and retain all royalty or other payments made to him hereunder as his sole and separate property, as full, complete, and liquidated damages to lessor.

Each of the terms, conditions, and stipulations herein contained shall inure to and be binding upon the heirs and personal representatives of lessor, and the successors and assigns of lessee.

WITNESS Their names.

STRATEGIC MINERALS EXPLORATION COMPANY

By JOHN I. SCHUMACHER

Lessor

JUANITA MINING COMPANY

C. S. BARTON

JOHN W. WOOD

Lessee

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Grand, State of Utah, described in a certain Exploration Project Contract dated _____, 195__, between JUANITA MINING COMPANY, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease and option dated February 26, 1952, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

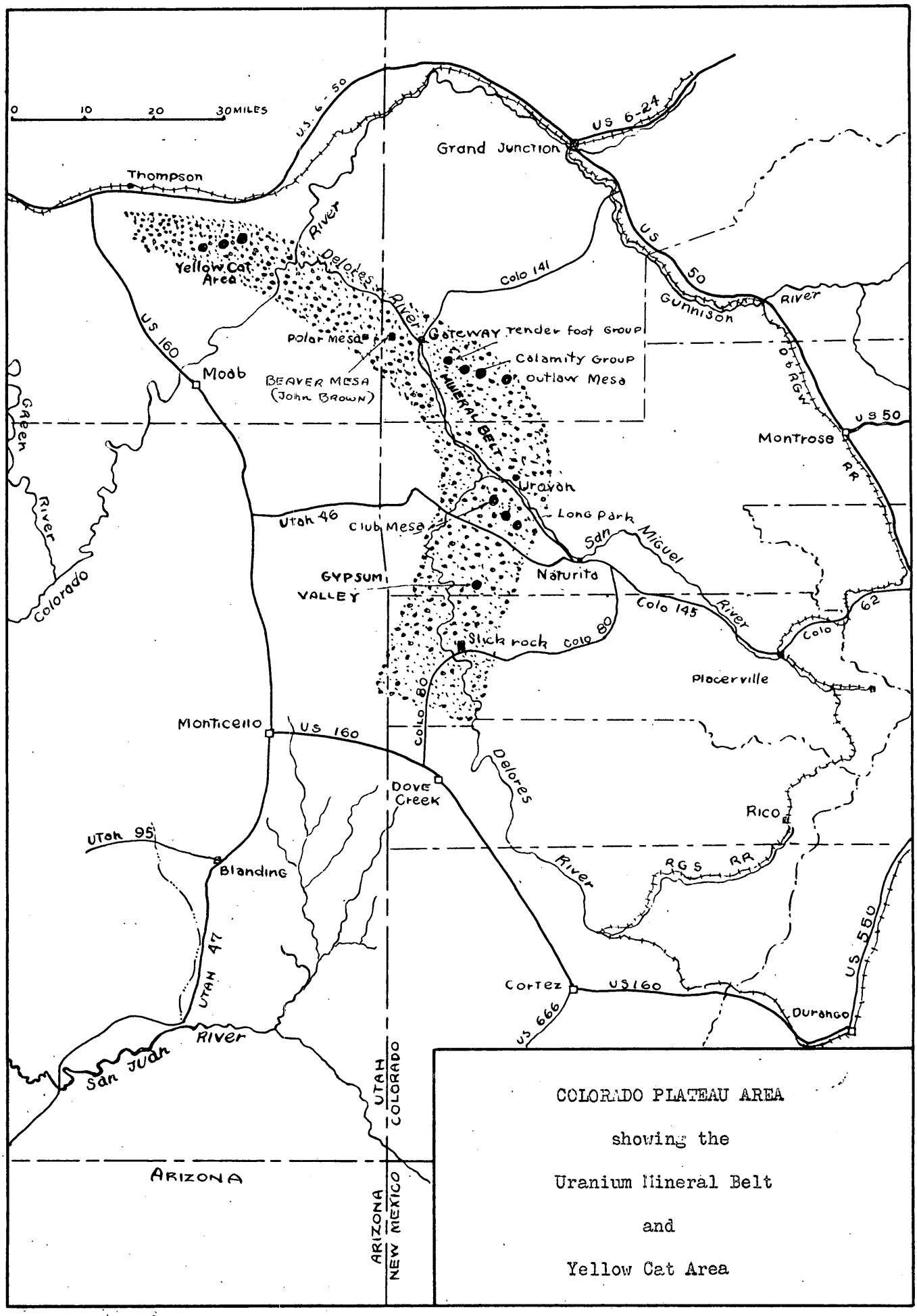
Dated this 28th day of April, 195 2

STRATEGIC MINERALS EXPLORATION COMPANY

By John I. Schumacher

JOHN I. SCHUMACHER, Mgr.

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1



COLORADO PLATEAU AREA

showing the

Uranium Mineral Belt

and

Yellow Cat Area

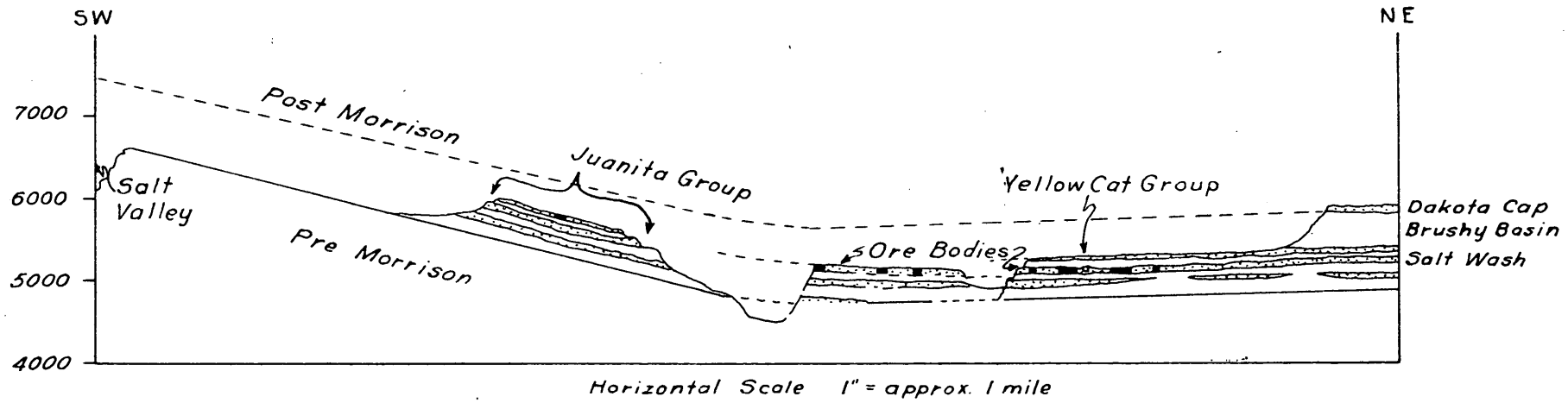
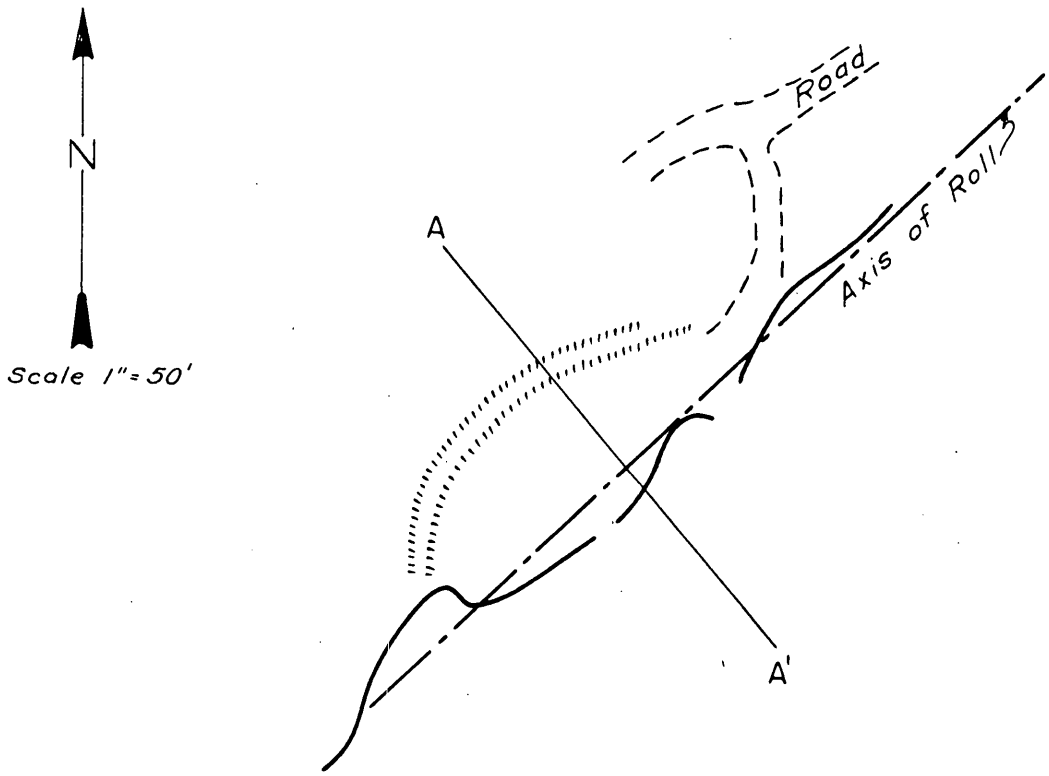


FIGURE 3

GENERAL SECTION

THROUGH

THE JUANITA GROUP AND YELLOW CAT MINE



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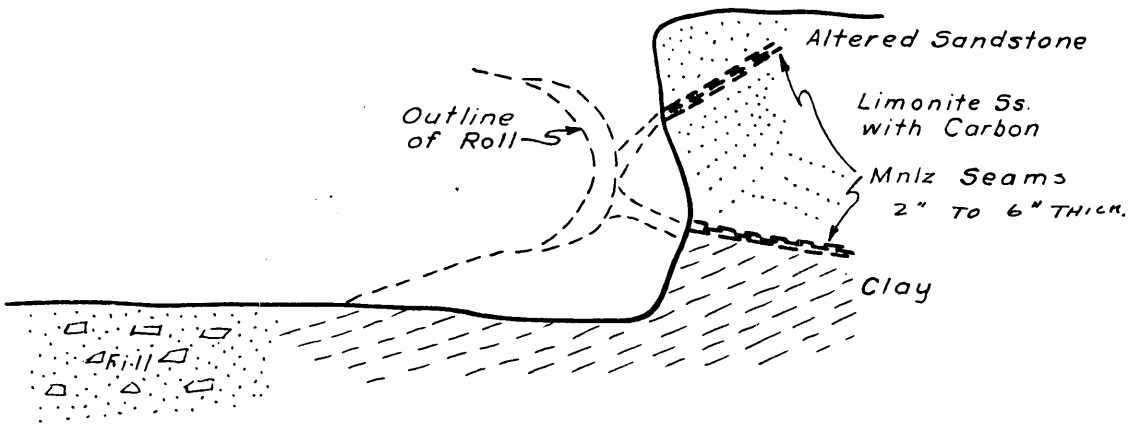

SECTION A-A'

FIGURE 4

JUANITA MINE

View of the access road to the Juanita Group looking northeast across Salt Wash toward the Yellow Cat Mine.

Mineralized zone at the Juanita Mine. Dark rock at lower left is limonite stained sandstone. Light altered sandstone on right and top. Mineralization on contact in middle.

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DEPARTMENT OF THE INTERIOR
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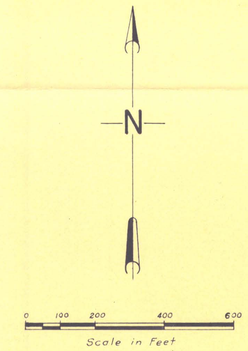
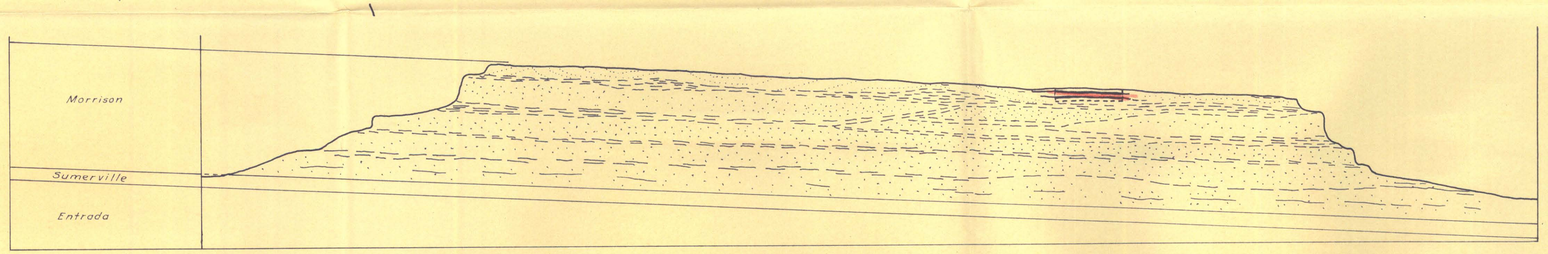


LEGEND

- x Proposed Diamond Drill Hole
- • Proposed Wagon Drill Hole
- Mineralization
- Road
- Mine Dump
- Top of Mineralization Rim
- Base of Salt Wash



SECTION A-A'

LEGEND

- Cross Bedded Laminated Sandstone
- Massive Sandstone
- Shale and Clay

Horizontal Scale 1" = 200'
Vertical Scale 1" = 100'

FIGURE 5

EXPLORATION PLANS

SHOWING PROPOSED DRILL HOLES AND SECTION

THROUGH

JUANITA GROUP

YELLOW CAT AREA

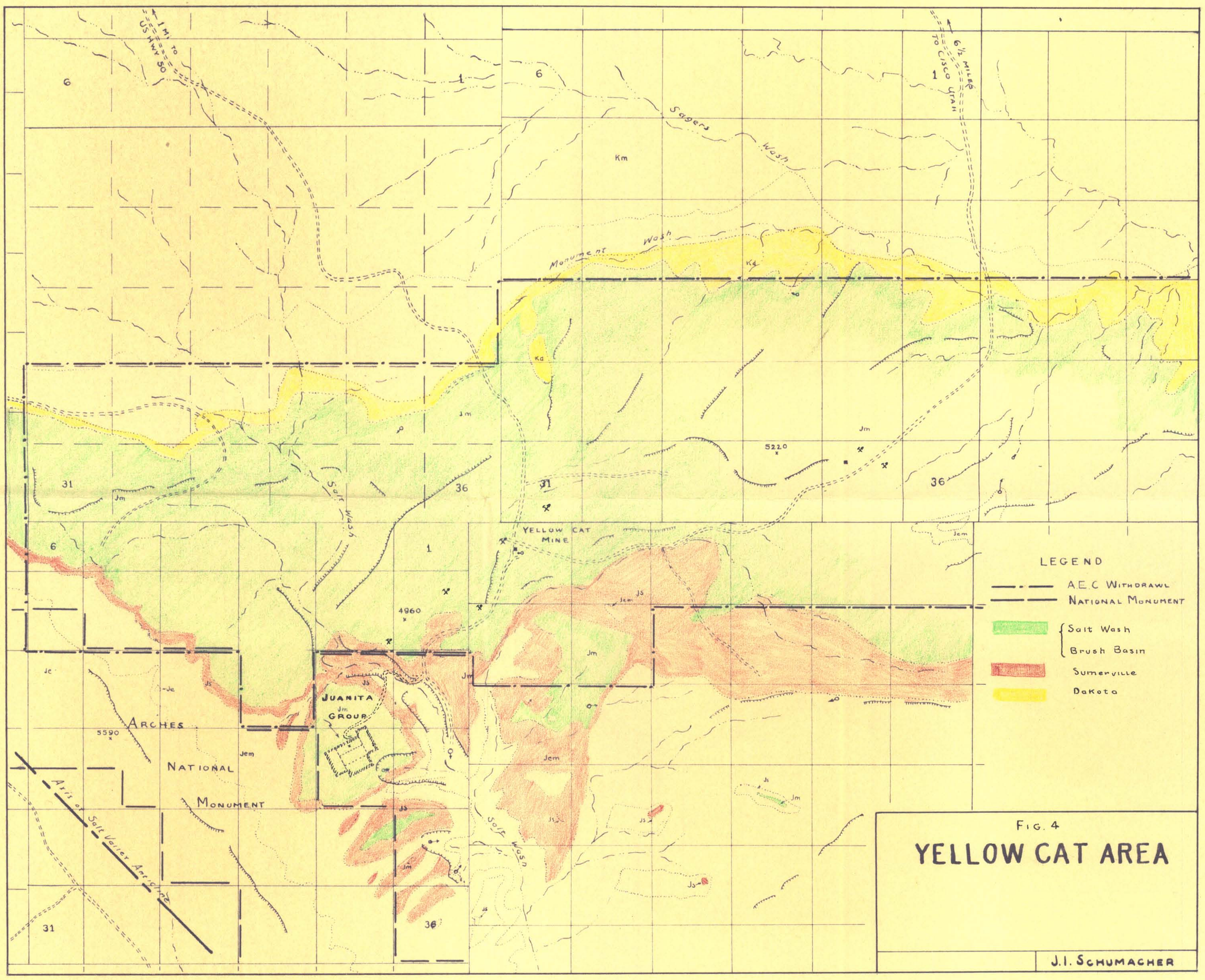


FIG. 4

YELLOW CAT AREA

J.I. SCHUMACHER