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

224 New Customhouse
Denver 2, Colorado

October 3, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1743X, Royston Coalition Mines Ltd., Piute County, Utah (Uranium)

Enclosed herewith are the original and two copies of the report on Royston Coalition Mines Ltd., as listed above.

We concur with the recommendations of the field examiners that the loan be denied.

The brochure is returned herewith.

J. H. East, Jr.

for A. H. Koschmann

Enclosures

ld

cc: DMA

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

200 New Customhouse
Denver 2, Colorado

September 28, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1743X, Royston Coalition Mines LTD., Piute County, Utah. (Uranium)

Enclosed are 8 copies of the geologic report by Byron J. Sharp and Vard H. Johnson, U. S. Geological Survey, covering the above docket. It has been recommended that the loan be denied.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 307, 320 South Main
Salt Lake City 1, Utah
26 September 1951

Memorandum

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

From: Ralph J. Roberts

Subject: Docket DMA-1743X, Royston Coalition Mines LTD., Piute County, Utah. (Uranium)

Please find enclosed 8 copies of a geologic report on Docket DMA 1743X, Royston Coalition Mines Ltd., Piute County, Utah.

The Royston Coalition mine is located in the Bullion Canyon series of volcanics of Tertiary age, which has been intruded by quartz monzonite and granite. The quartz monzonite is the most favorable host rock for the uranium-bearing veins in the central Marysvale area. The applicant proposes to deepen the present shaft to explore the quartz-monzonite-Bullion Canyon series contact at depth and then drift along the contact in the hope of intersecting possible uranium bearing veins. The company has projected the quartz-monzonite contact to within 78 feet of the present shaft. This contact may or may not be close to the present incline shaft, and if it is close the chances of finding any uranium-bearing veins are not good.

The exploration program proposed by the applicant is geologically unsound and it is therefore recommended that application for a loan be denied.

This is the full report of an investigation made upon request of the field team. There will be no report transmitted by the U. S. Bureau of Mines.

I concur in the conclusions and recommendations of the examining geologists that the application for a loan be denied.

Preston E. Hale

for - Ralph J. Roberts

SEP 1951
RECEIVED
U.S. Geological Survey
Mineral Deposits Branch
Denver

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

DEFENSE MINERALS ADMINISTRATION

# REPORT OF EXAMINATION BY FIELD TEAM
# REGION IV

## Docket DMA-1743X, Royston Coalition Mines Ltd.,

## Piute County, Utah

(Uranium)

Byron J. Sharp and Vard H. Johnson, Geologists
U. S. Geological Survey

September 24, 1951

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## ILLUSTRATIONS


Figure 1. Index map of Utah.

Figure 2. Plan map of inclined shaft of Royston Coalition mines, Ltd.

Docket DMA-1743X, Royston Coalition Mines Ltd.

Piute County, Utah

(Uranium)

## INTRODUCTION

Docket DMA-1743X, Royston Coaltion Mines Ltd., Piute County, Utah, proposes to explore at depth an intrusive body of quartz-monzonite that may contain uranium-bearing veins.

In response to a request from the Field Team, dated August 8, 1951, Byron J. Sharp and Vard H. Johnson of the U. S. Geological Survey visited the property on September 4th and 5th, to determine if the exploration project had merit.

The AEC office at Marysvale provided valuable information and assistance during the examination.

### Location and Accessibility

The Royston Coalition property is located in Sec. 4 and 9, T. 27 S., R. 3 W., approximately 3 1/2 miles north of Marysvale, Utah, on the Rio Grande Railroad. It is accessible the year round by good dirt and gravelled roads.

### History and ownership

The Royston Coalition Mines Ltd. is managed by R. A. Glenny, secretary of the company, and Scott M. Cutler, superintendent.

The applicant has entered into lease and option agreements to develop this property in the uranium district in Marysvale, Utah. No production from the property has been recorded, but adjacent properties have been producing for some time. Owing to lack of available funds, operations were suspended by the company.

## GEOLOGY

The rocks in the Marysvale region are mainly volcanic in origin. A series of flows, the oldest of which ~~from~~ forms the Bullion Canyon series of Tertiary age, has been intruded by quartz-monzonite and granite. The Belnap rhyolite, of later Tertiary age, overlies an old erosion surface on the Bullion Canyon series and the quartz-monzonite and granite. The quartz-monzonite is considered to be the most favorable host rock for the uranium-bearing veins.

The Royston Coalition mine is in the Bullion Canyon series of flows, which has not been the most favorable host rock for the uranium-bearing vein but has been known to be mineralized to some extent.

## ORE DEPOSITS

The ore in the central area of the Marysvale district is largely in narrow veins and gouge-filled fissures in the quartz monzonite. Some mineralization has also occurred in the flows. The primary ore minerals are pitchblende, magnetite, pyrite, jordisite, and ilsemannite. The uranium minerals weather readily to schroeckingerite, autunite, torbernite, a silicate resembling uranophane, and two unknown minerals. Fluorite is the most important associated gangue mineral, and some quartz and calcite are also known to occur in the gangue.

Mineralization in the Royston Coalition workings is limited to hematite and limonite stains and a few weak pyrite seams. Some alunite alteration has taken place near the surface.

## ORE RESERVES

There are no ore reserves in the Royston Coalition workings, for no uranium ore has yet been discovered.

## PROPOSED EXPLORATION

The company proposes to extend the present inclined shaft until the quartz-monzonite is reached at an estimated depth of 78 feet. Then they propose to drift along the contact of the quartz-monzonite and the Bullion Canyon series, on an estimated strike of 35° W., for approximately 1,000 feet. The company hopes to intersect some alteration zones found on the surface with this drift. The estimated cost of the program, based on $30.00 a foot, would total approximately $30,000. The project could be completed within one year.

The examining geologists believe that the possibilities for discovery of new ore bodies on this property are not promising. The quartz-monzonite contact may or may not be close to the face of the present incline, and even if the quartz monzonite contact were reached, the likelihood of finding uranium bearing veins would be very small.

## SUMMARY AND CONCLUSIONS

The Royston Coalition mine consists of a 30° inclined shaft 650 feet long, in the Bullion Canyon series of volcanics of Tertiary age, which has been intruded by quartz-monzonite and granite. The quartz-monzonite is considered to be the most favorable host rock for the uranium-bearing veins in the central Marysvale area.

The applicant proposes to deepen the present shaft to explore the quartz-monzonite-Bullion Canyon series at depth and then drift 1,000 feet along the contact in the hope of intersecting possible uranium-bearing veins. The project can be completed in less than two years time at a cost of approximately $30,000.00.

The company has projected the quartz-monzonite contact to within 78 feet of the present face of the inclined shaft. In the opinion of the examining geologist, however, this contact may or may not be close to the presdnt incline, and that even if the contact is close the chances of finding any uranium-bearing veins are not good. It is concluded that the exploration program proposed by the applicant is geologically unsound, and it is therefore recommended that the application for a loan be denied.

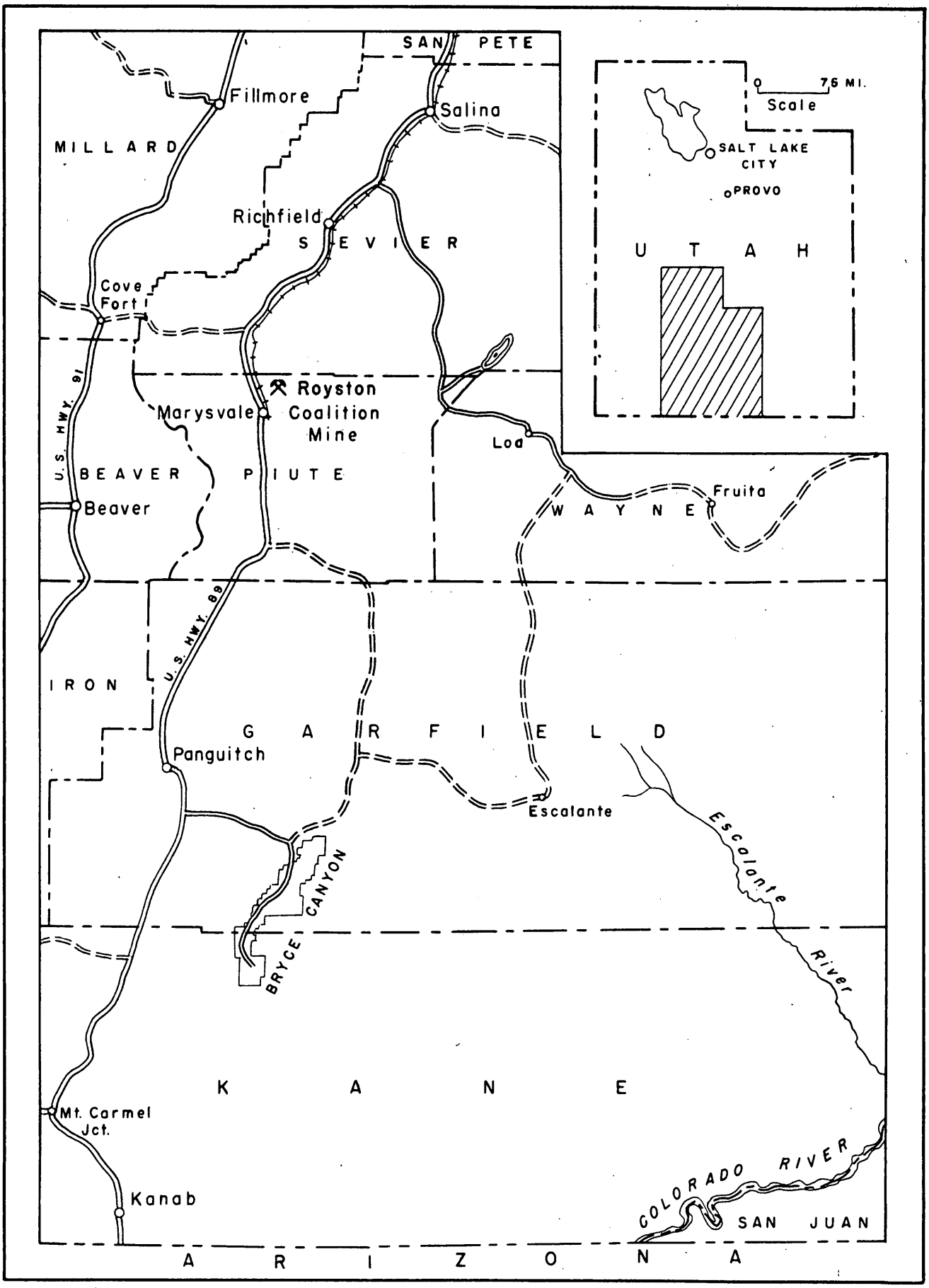



FIG. 1 INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

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

OFFICE
REGION IV
FEB 18 1952
BUREAU OF MINES
DENVER, COLO.

AIR MAIL

FEB 14 1952

Mr. Samuel Bernstein, President
Royston Coalition Mines, Ltd.
704 Newhouse Building
Salt Lake City 1, Utah

Re: Docket No. DMA-1743X (Uranium)
Royston Coalition Mines, Ltd.
Piute County, Utah

Dear Mr. Bernstein:

Your letter of January 31, 1952, to Mr. Tom Lyon has been referred to the Rare and Misc. Metals Division of DMEA which Division recently acquired the application from the former Supply Division of DMA.

As stated in Mr. Lyon's letter of October 17, 1951: "We regret to advise that your application must be denied at this time because of insufficient evidence to indicate the geologic probability of making a significant discovery." This decision was reached after studying all of the data available. The Government reports are confidential and can not be released.

The denial decision was made because there were no factual data of a discovery on your property, and the geologic evidence does not support the probability of making a significant discovery.

If you have any additional factual or geologic evidence that would indicate the probability of such a discovery, it should be furnished to this office so that we can reconsider your application. No additional information regarding your property was included in your letter of November 15, 1951.

We hope the above information satisfactorily answers your questions.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

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

L. P. Thayer (RB)
Member, Geological Survey

FRutledge/jem 2/8/52
cc to: Adm. Reading File Docket
Messrs. Kauffman, A.J. Rm. 1347
Butler, A.P. Rm. 3212 G.S.
Ellis Rutledge
Field Team, Reg. IV (2)

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

REGIONAL DIRECTOR'S
OFFICE
REGION IV
OCT 22 1951
BUREAU OF MINES
DENVER, COLORADO

OCT 17 1951

Mr. Samuel Bernstein
Royston Coalition Mines, Ltd.
704 Newhouse Building
Salt Lake City 1, Utah

Re: DMA-174-Ur
Uranium

Dear Mr. Bernstein:

Your application of June 25, 1951, for an exploration loan in the amount of $30,000, has been carefully reviewed by the Minor and Rare Metals Branch of the Supply Division.

We regret to advise that your application must be denied at this time because of insufficient evidence to indicate the geologic probability of making a significant discovery.

Should evidence obtained in the future be of such nature as to alter this opinion, we would gladly consider a new application.

Yours very truly,

Tom Lyon

Tom Lyon, Director
Supply Division

EGerdes/mh 10-10-51
cc: Adm. Head, File
Bearret
Lyon
Field Team IV
Keiser, USGS
Hested, USGS
DMA docket file

J.L.

Hested

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

OCT 17 1951

REGIONAL DIRECTOR'S OFFICE
REGION IV
OCT 22 1951
BUREAU OF MINES
DENVER, COLORADO

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: DMA docket 17413 - Uranium
Keystone Coalition Mines, Ltd.

Under date of June 25, 1951, Mr. Samuel Bernstein, 704 Newhouse Building, Salt Lake City 1, Utah, submitted the subject application, MF-1713, for an exploration loan in the amount of $30,000.

Attached hereto find letter of even date addressed to applicant denying the application because of insufficient evidence to indicate the geologic probability of making a significant discovery.

We herewith return the complete docket, comprised as follows:

(a) Two copies of MF-100.
(b) Three copies of MF-101.
(c) Two copies of field referral.
(d) One copy of field team report.
(e) Two copies of letter from Mr. Keiser, to Mr. Hosted transmitting a copy of MF-100.
(f) Copy of exhibits.

J.11

Weston Bourret
Weston Bourret, Chief
Minor and Rare Metals

Enclosure

Approved:
Tom Lyon
Director, Supply Division

EGordon/mb 10-10-51
cc: Adm. Mand. File
Lyon
Bourret
Keiser, U.S.
Hosted, U.S.
Field team, I V
DMA docket file

Hosted

[illegible] Bear Contractors
Denver 2, Colorado

October 3, 1951

Memorandum

To: Regional Solicitor, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Project [illegible], Royston Coalition Mines Ltd., Piute County, Utah (Uranium)

Enclosed herewith are the original and two copies of the report on Royston Coalition Mines Ltd., as listed above.

We concur with the recommendations of the Field examiners that the loan be denied.

The brochure is returned herewith.

J. H. EAST, JR.

J. H. East, Jr.

for Cyder Jones

A. H. Kaschmann

Enclosures

14

cc: DMA East

Mining Division
Region IV

September 13, 1951

Memorandum

To: S. R. Wilson

From: Chief, Mining Division, Region IV

Subject: DMA Docket 1743X, Royston Coalition Mines, Ltd.

Attached hereto is copy of a letter from R. A. Glenny, Secretary of the Royston Coalition Mines, Ltd., regarding failure of the field team to contact them when they made their recent investigation.

I suggest that you advise your examining engineers, as a matter of policy, to contact the applicants at the time the investigations are made.

In this case, it might be well for you to talk to Mr. Glenny.

F. T. Allman

Attachment

FTA:ld

cc: Kostelnaru
DMA

# ROYSTON COALITION MINES, LTD.

PHONE 4--9150
704 NEWHOUSE BUILDING
SALT LAKE CITY 1, UTAH

MINES AT
ROYSTON, NEVADA
ELKO, NEVADA

September 12th,1951.

Mining Division
Date Rec'd.
SEP 13 1951
BUREAU OF MINES
Denver, Colorado

United State Department Of The Interior
Mining Division RegionIV
224 New Customhouse
Denver 2 Colorado;

Attn. Mr. P. T. Allsman

Dear Mr. Allsman;-

Your letter September 6th;reference DMA Docket No. 1743X advising SaltLakeCity Field Team would have investigators available to examine our property during the week starting September 10th,1951.

Please be advised two (2) investigators were in the Marysvale District last Wednesday September 5th, and were accompanied to our property by a representive from the Field Office of the Atomic Energy Commission stationed at this place.

Before making examination of our property there was no effort to contact our agent Mr. Scott Cutler, who resides in Marysvale, or our General office in SaltLakeCity. However, we do not know the proceedure or if it was necessary, but in making an application for a DMA Loan we would have appreciated very much to express our views or maybe talk over any counter proposals if necessary to expedite matters.

We sincerely trust the SaltLakeCity Field Team investigators obtained the information required by Weston Bourret, Chief Minor and Rare Metals, Washington D.C. and we would appreciate any assistance in the expedition of Loan.

Should there be anything further requested do not hesitate in calling on us.

Thanking you, we remain,

Yours very truly,
Royston Coalition Mines, Ltd.

BY R. A. Glenny
R.A.GLENNY-Secretary

G-

Mining Division
Region IV

September 6, 1951

Mr. R. A. Glenny, Secretary
Royston Coalition Mines, Ltd.
704 Keenan Building
Salt Lake City 1, Utah

Dear Mr. Glenny:

Your letter of August 31 to Mr. East concerning your DMA Docket 1743X has come to my attention for reply.

The weekly report of the Salt Lake City Field Team indicates that they will have investigators available to examine your property during the week starting September 10. They will undoubtedly get in touch with you preceding that date.

Yours very truly,

F. T. Allmann

FTAilM

cc: Kagelmann
Wilson
DMA

Allemen

# ROYSTON COALITION MINES, LTD.

PHONE 4--9150
704 NEWHOUSE BUILDING
SALT LAKE CITY 1, UTAH

MINES AT
ROYSTON, NEVADA
ELKO, NEVADA

Air Mail

REGIONAL DIRECTOR'S
OFFICE
REGION IV
SEP 4 1951
BUREAU OF MINES
DENVER, COLORADO

August 31, 1951

J. H. East
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

We are herewith enclosing you a letter received under date of August 6, 1951, from Weston Bourret, Chief of the Minor and Rare Metals, wherein he states our application Docket DMA1743X for exploration project in the amount of $30,000.00 has been referred to you for obtaining additional information.

To date we have heard nothing from your office or the Washington office reference this matter.

We understand a Mr. Collins is in the Marysvale field representing the Government, and we also have a Company representative at Marysvale by the name of Scott M. Cutler, who can be contacted any time to go over the property involved in our application.

At the present time our Company is doing no further development work awaiting the decision on the application, and we would appreciate anything you can do for us in the speeding up of the desired additional information on our property as requested by Mr. Weston Bourret.

Thanking you, we remain

Yours very truly,

ROYSTON COALITION MINES, LTD.

By R. A. Glenny

R. A. Glenny, Secretary

RAG:hb
Encl.

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

August 6, 1951

Mr. Samuel Bernstein, President
Royston Coalition Mines, Ltd.
704 Newhouse Building
Salt Lake City 1, Utah

Dear Mr. Bernstein:

Your application, Docket DMA1743X for exploration project in the amount of $30,000 has been received by the Minor and Rare Metal Branch of the Supply Division.

Before a decision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team IV, Mr. J. H. East, Jr., 224 New Customhouse, Denver 2, Colorado, with the request that the needed information be supplied to us.

Yours very truly,

Weston Bourret, Chief
Minor and Rare Metals

August 10, 1951

Memorandum

To: S. H. Wilson (with brochure)

(Through Chief, Mining Division)

Ralph Roberts

From: DMA Field Team, Region IV

Subject: DMA Docket 1743X, (Uranium) Royston Coalition Mines Ltd., Burbank Mining District, Piute County, Utah

Enclosed is the brochure on the above application for an exploration loan of $30,000.

A geologic examination is required. If the report is favorable, an engineering examination should be made.

Please return the brochure with your report.

J. H. East, Jr.

A. H. Koschman

A. H. Koschman

Enclosure

1d

cc: DMA
Koschman

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

REGIONAL DIRECTOR'S OFFICE
REGION IV
AUG 9 1951
BUREAU OF MINES
DENVER, COLORADO

AUG 6

Mr. Samuel Bernstein, President
Royston Coalition Mines, Ltd.
704 Newhouse Building
Salt Lake City 1, Utah

Dear Mr. Bernstein:

Your application, Docket DMA-1743X for exploration project in the amount of $30,00 has been received by the Minor and Rare Metal Branch of the Supply Division.

Before a decision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team IV, Mr. J. H. East, Jr., 224 New Customhouse, Denver 2, Colorado, with the request that the needed information be supplied to us.

Yours very truly,

Weston Bourret

Weston Bourret, Chief
Minor and Rare Metals

WBourret/ex

Copy: Adm. Reading File
Reports & Records Branch
Lyon
Bourret
PF Field Team IV, 224 New Customhouse, Denver 2, Colorado
Files
Keiser - Hosted, U.S.G.S.

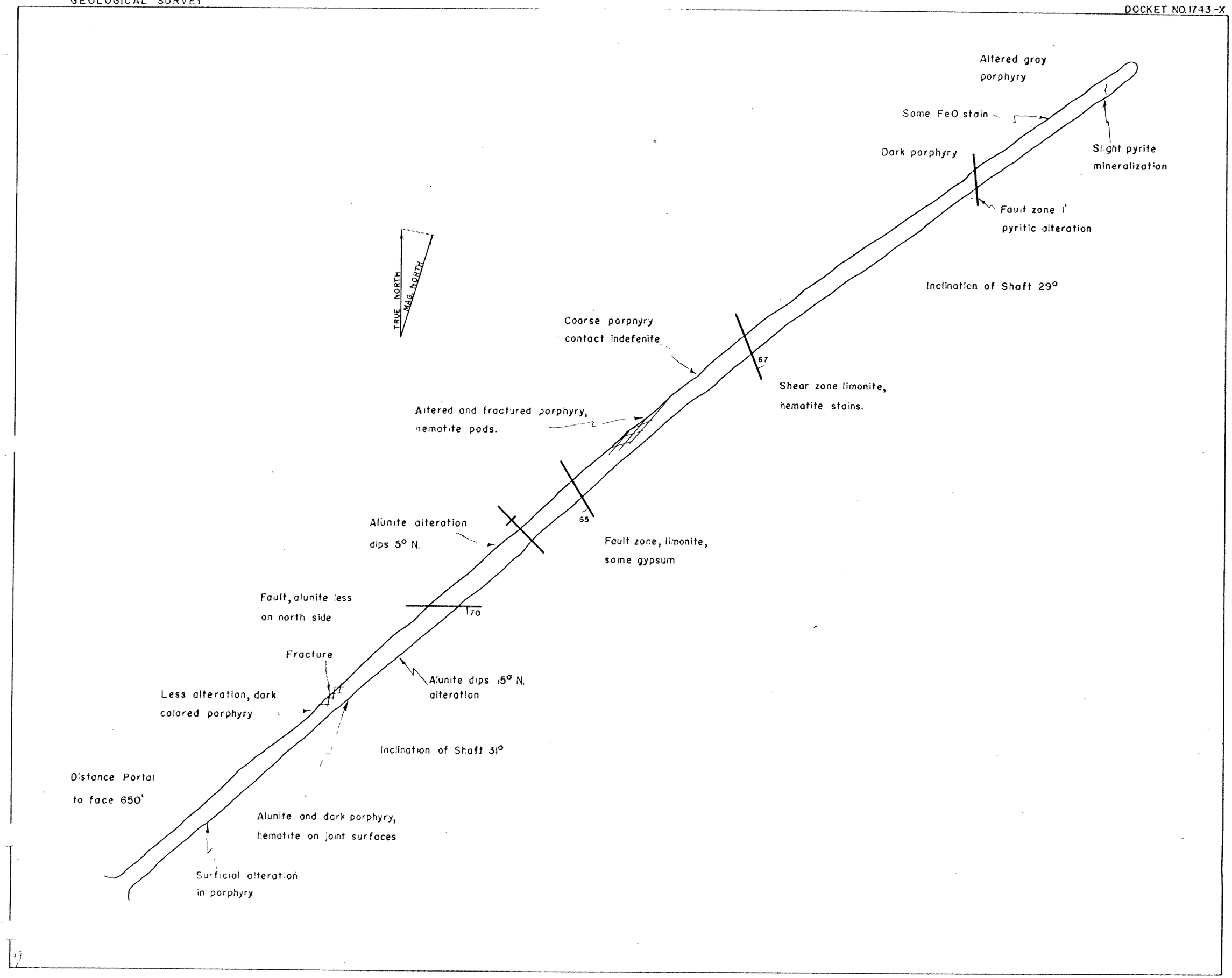



FIG. 3

PLAN MAP OF INCLINED SHAFT OF ROYSTON COALITION MINES, LTD.

MARYSVILLE MINING DISTRICT

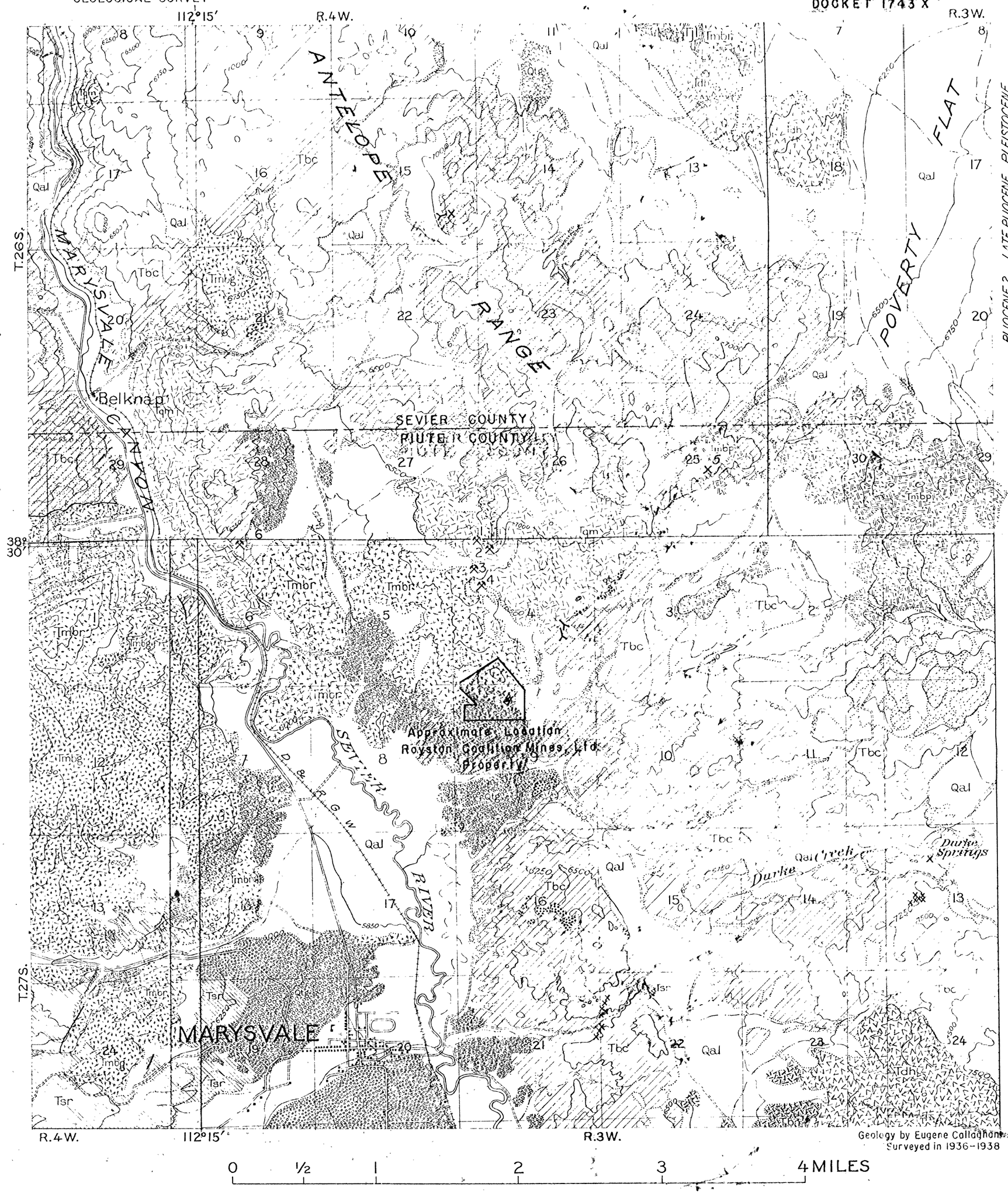
PIUTE COUNTY, UTAH

GEOLOGY by B. J. SHARP and V. H. JOHNSON

0 40 80 FEET
Scale

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS
ADMINISTRATION
DOCKET 1743 X




Geology by Eugene Callaghan
Surveyed in 1936-1938

# EXPLANATION

## SEDIMENTARY ROCKS

**QUATERNARY**

- **Qal** — Alluvium (PLEISTOCENE & RECENT)
- **Qtg** — Terrace gravels (LATE PLIOCENE OR PLEISTOCENE)

**LATE TERTIARY OR QUATERNARY**

- **Tsr** — Sevier River formation (PLIOCENE? & PLEISTOCENE? OR PLEISTOCENE)

## IGNEOUS ROCKS

**TERTIARY**

- **Tb** — Basalt
- **Tjl** — Joe Lott tuff (LATER TERTIARY)
- **Tdh** — Dry Hollow latite
- **Tmbp** — Mount Belknap rhyolite porphyritic facies
- **Tmbg** — Mount Belknap rhyolite gray facies
- **Tmbr** — Mount Belknap rhyolite red facies
- **Tqm qt** — Quartz monzonite and associated intrusives, with quartzite (qt) inclusions (EARLIER TERTIARY)
- **Tbc qt** — Bullion Canyon volcanics with quartzite (qt) inclusions (EARLIER TERTIARY)

*Stippling shows altered areas*

Normal fault

## Mines and Prospects

1. Bullion Monarch mine
2. Seegmiller mine (Freedom #1 claim)
3. Bertleson mine
4. VCA mine (Prospector #1 claim)
5. Papsy's Hope prospect
6. East Slope No.2 prospect

FIG 2

# GEOLOGIC MAP OF MARYSVALE AND VICINITY, UTAH

For sale by the U S Geological Survey Library, Room 504 Federal Building, Salt Lake City, Utah Price 25 cents