700

FILE COPY
Surname:

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

MAY 16 1956

Mr. Marshall V. Clark
Southwest Minerals Ltd.
75 Ringgold Street
Brownsville, Texas

Re: Docket No. DMEA-4076 (Uranium)
Southwest claims
Fremont County, Colorado

Dear Mr. Clark:

Reference is made to your application for Government aid in an exploration project on the above-named claims.

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 some minor uranium mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation in an exploration program. We regret to advise you that, under these circumstances, 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/izm 5-15-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Reg. III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Docket Copy
700
Murphy

May 15, 1956

## Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4076

Commodity: Uranium

Applicant: Southmost Minerals Ltd.
c/o Mr. Marshall Clark
75 Ringgold Street
Brownsville, Texas

Property: Owners of Southmost claims nos. 1 through 14, situated in secs. 28, 29, 32, and 33, T. 49 N., R. 10 E., N.M.P.M., Badger Creek mining district, Fremont County, Colorado.

Date of Application: November 22, 1955

More information requested.

Referred to Field Team: March 2, 1956

Field Examination Made: March 29, 1956

Field Team Report Received: April 23, 1956

Work Proposed: 5,000 feet of drilling at an overall cost of $24,250. Mr. Clark and Mr. Reynolds, applicant members, accompanied the field examiners. On March 31, 1956, the Applicant revised its exploration request to 12 holes totaling 996 feet of non-core and 156 feet of core drilling.

Estimated Cost: (Original Proposal)

| | | |
|---|---|---|
| 5,000 ft. of core drilling, holes ranging from 200 to 600 feet in depth, @ $4/ft. | $20,000.00 | |
| Construction access roads to drill sites | 1,250.00 | |
| Supervision, etc. | 3,000.00 | |
| Total ..... | | $24,500.00 |

Excerpts from Field Team Report: (R.C. Vickers, USGS & C.M. Harrer, USBM):

The claims extend along Spring Creek, from U. S. Highway 50 southward for over 7,000 feet. The claims range in altitude from 7,000 to approximately 8,000 feet. The terrain is rugged and mountainous.

During June and July, approximately 150 feet of outcrop was stripped with a bulldozer and about one-half mile of rough access road was completed. During July 1955, the property was flown over in a Cessna 170 plane equipped with ionization chamber-type radiation equipment. Four anomalies found by the airborne reconnaissance were noted on the maps submitted by the Applicant.

The claims are underlain by strata of the Minturn formation of Pennsylvanian age. The rocks consist of a thick sequence of red sandstone and conglomerates interbedded with shaly siltstones and impure limestones. The rocks strike about north and dip 30° to 40° E.

Slight abnormal radioactivity is confined to a thin bed of black shaly siltstone, a few inches to 2 feet thick, which is overlain by coarse arkosic sandstone and underlain by impure limestone. The black shale was observed at two localities, one along U.S. Highway 50, and the other at the bulldozer cut (designated as anomaly No. 2). No other radioactive localities are known on the claims. Mr. Clark reported that anomalies nos. 1, 3, and 4, found by the airborne reconnaissance, could not be found on the ground during a thorough search of the area.

Analyses of samples taken at the claims during the examination are listed below:

| Sample No. | Description | % eU | %U |
|---|---|---|---|
| 1 | 1.5 ft. channel sample carbonaceous shaly siltstone near center bulldozer cut on Southmost No. 2 claim | 0.007 | 0.005 |
| 2 | 1.7 ft. channel sample northend bulldozer cut | 0.007 | 0.006 |
| 3 | Grab sample of about 1 ft., carb-sh. st., south side U.S. Highway 50 | 0.005 | 0.002 |

Although the Applicant reported analysis ranging as high as 0.17 and 0.22 percent $U_3O_8$, the examiners could find no material of this grade on the property. The results of analyses (noted above) are believed to be representative of the most radioactive material present on the claims. There is little or no possibility of uranium of commercial grade occurring on the property.

The field examiners and Field Team recommend the subject application be denied.

Commodity Members' Comments: (excerpts):

USBM, J. E. Crawford, May 1, 1956:

We concur with the Field Team that, based on the field examiners report, there is very little chance that economic occurrences of uranium may exist on the subject claims.

USGS, N. E. Nelson, May 11, 1956:

In view of the low values obtained (samples taken by field examiners) the recommendation of the examiners and the Field Team that the application be denied is well taken. I concur with the recommendation.

Rare & Miscellaneous Metals Div., F. M. Murphy, May 15, 1956:

The joint engineering and geological report submitted by the Field Team contains conclusive proof that the subject property has no possibility of becoming a potential source of uranium ore. Therefore, this Division concurs in the examiners and Field Team's recommendation to deny the application.

In view of the above-mentioned report, this Division also recommends that any modified exploration proposal to explore the subject property, which might be submitted by the Applicant, should be denied.

F. L. Knouse

F. L. Knouse, Acting Chief
Rare and Miscellaneous
Metals Division

5-14-56

IN REPLY REFER TO:

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

RECEIVED
MAY 11 1956

May 11, 1956

Re: DMEA 4076
Southmost Minerals, Ltd.
Spring Creek Group
Fremont County, Colorado
$24,250.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The applicant submitted a poorly supported request for assistance in exploring a property on which aerial geophysical work was said to indicate four radioactive anomalies. One anomaly had been checked on the ground and two samples reputedly taken from surface exposures showed 0.17 and 0.22% $U_3O_8$.

The examiners were unable to duplicate the samplings. Three samples taken by them assayed 0.005, 0.006, and 0.002% $U_3O_8$. The material sampled came from a thin carbonaceous shaly siltstone a few inches to two feet thick which had been uncovered by bulldozing for about 150 feet.

In view of the low values obtained, the recommendation of the examiners and the Field Team that the application be denied is well taken. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
MAY 11 1956

May 11, 1956

Re: DMEA 4076
Southwest Minerals, Ltd.
Spring Creek Group
Fremont County, Colorado
$84,250.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The applicant submitted a poorly supported request for assistance in exploring a property on which aerial geophysical work was said to indicate four radioactive anomalies. One anomaly had been checked on the ground and two samples reportedly taken from surface exposures showed 0.17 and 0.225 $U_3O_8$.

The examiners were unable to duplicate the samplings. Three samples taken by them assayed 0.005, 0.006, and 0.0085 $U_3O_8$. The material sampled came from a thin carbonaceous shaly siltstone a few inches to two feet thick which had been uncovered by bulldozing for about 150 feet.

In view of the low values obtained, the recommendation of the examiners and the Field Team that the application be denied is well taken. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-5/11/56

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

IN REPLY REFER TO:

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

RECEIVED
MAY 11 1956

May 11, 1956

Re: DMEA 4076
Southwest Minerals, Ltd.
Spring Creek Group
Fremont County, Colorado
$84,250.00 - Uranium

Memorandum

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

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E. E. Nelson

EENelson:iml
G-5/11/56

E. E. Nelson

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

IN REPLY REFER TO:

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

May 11, 1956

Re: DMEA 4076
Southwest Minerals, Inc.
Spring Creek Group
Fremont County, Colorado
$24,250.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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The examiners were unable to duplicate the samplings. Three samples taken by them assayed 0.005, 0.006, and 0.008% $U_3O_8$. The material sampled came from a thin carbonaceous shaly siltstone a few inches to two feet thick which had been uncovered by bulldozing for about 150 feet.

In view of the low values obtained, the recommendation of the examiners and the Field Team that the application be denied is well taken. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-5/11/56

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

5-2-56

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

May 1, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Docket 4076, Southmost Minerals, Ltd., (Southmost claim group) Fremont County, Colorado

I have reviewed the report of examination, Southmost Minerals, Ltd., Fremont County, Colorado, dated April 20, 1956 and received in this office April 27, 1956. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the Field Team that, based on the results of the DMEA field examiners' investigation, there is little chance that economic occurrences of uranium may exist on the Southmost Minerals Company's claims. Only slight radioactivity was noted in a thin bed of black, shaley siltstone. Three samples taken from outcrops of the formation assayed only 0.005, 0.007 and 0.007 percent equivalent uranium. There was no geologic evidence determined which would support the deposition of commercial deposits of uranium in the immediate area.

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

John E Crawford
John E. Crawford

RECEIVED
MAY 2 - 1956

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

May 1, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Docket 4076, Southmost Minerals, Ltd., (Southmost claim group) Fremont County, Colorado

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John E. Crawford

RECEIVED
MAY 2 - 1956

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

May 1, 1956

Memorandum

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Uranium Commodity Committee

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

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

John E. Crawford

RECEIVED
MAY 2 - 1956

4-23-56

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

RECEIVED

April 20, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4076 (Uranium) Southmost Minerals Ltd., (Southmost claim group) Fremont County, Colorado

Enclosed are the original and three copies of a joint engineering and geologic report on the subject property.

This is the application that Congressman Joe M. Kilgore and Senator Lyndon B. Johnson recommended the Applicants to Mr. C. O. Mittendorf in their letters dated March 12, 1956.

The field examiners conclude that there is little or no possibility of uranium occurring on the property in significant amounts, and they recommend that this application for DMEA aid be denied. We concur in this recommendation.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE
4-25-56
(date)

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APR 23 1956

IN REPLY REFER TO:

DMEA
Date Rec'd.
APR 20 1956

BUREAU OF MINES
Denver, Colorado

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

April 19, 1956

TRANSMITTED
APR 20 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: J. F. Shaw
E. N. Harshman

Subject: DMEA Docket 4076 (Uranium), Southmost Minerals, Ltd., (Southmost claim group), Fremont County, Colorado

Enclosed are the original and nine copies of a joint examination report by R. C. Vickers, Geological Survey, and C. M. Harrer, Bureau of Mines, in which denial of the subject application for exploration assistance is recommended.

The applicant proposed to explore the Southmost claims by 5,000 feet of drilling at an estimated over all cost of $24,250. The applicant subsequently reduced the proposed program to 12 holes for a total of 996 feet of drilling.

Minor amounts of uranium occur in a thin, black, shaly siltstone bed in the Minturn formation of Pennsylvanian age. Although the applicant reports samples containing as much as 0.22 percent $U_3O_8$, samples taken by the examining team indicate a much lower average uranium content.

The examiners conclude that significant uranium deposits will not be discovered by the proposed exploration.

We concur with the recommendation that the application for exploration assistance, DMEA Docket 4076, be denied.

J. F. Shaw
Superintendent of the Denver
Experiment Station

Reviewed by
DMEA Operation Committee
4-25-56

E. N. Harshman
Member, Field Team

Enclosures (10)
ENHarshman:mp

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

RECEIVED
APR 23 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED
APR 20 1956

DMEA 4076

Southmost Minerals, Ltd.

Southmost Group

Fremont County, Colorado

Uranium

Joint Engineering and Geological Report

by

R. C. Vickers, Geologist
Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

April 19, 1956

Reviewed by
DMEA OPERATING COMMITTEE
4-25-56
(date)

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| Applicant's Project Proposal and Costs | 7 |
| Conclusions and Recommendations | 8 |


## ILLUSTRATIONS


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| 1. Location map, Southmost Minerals, Ltd., Southmost Group, Fremont County, Colorado. DMEA 4076 | 2 |
| 2. Claim and exploration map, Southmost Minerals, Ltd., Southmost Group, Fremont County, Colorado. DMEA 4076 | 8 |

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APR 23 1956

DMEA 4076

SOUTHMOST MINERALS, LTD.
SOUTHMOST GROUP
FREMONT COUNTY, COLORADO

## INTRODUCTION AND SUMMARY

Southmost Minerals Ltd. is a limited partnership authorized under the laws of Texas. Mr. Marshall V. Clark is its general partner and general manager and can be reached at 75 Ringgold Street, Brownsville, Texas. Southmost Minerals Ltd., requested Defense Minerals Exploration Administration assistance to explore their property for uranium by a program of 5,000 feet of core drilling at an overall cost of $24,250. On March 31, 1956, the applicant revised his exploration request to 12 holes totalling 996 feet of non-core and 156 feet of core drilling. Their property comprises a contiguous group of 14 standard lode locations in secs. 28, 29, 32, and 33, T. 49 N., R. 10 E., N.M.P.M., in the Badger Creek mining district of Fremont County, Colorado. The property was examined for the Defense Minerals Exploration Administration by a joint team comprising members of the Geological Survey and Bureau of Mines on March 29, 1956. The examining team was accompanied by Marshall V. Clark and Robert M. Reynolds for the applicant.

Slight, abnormal radioactivity is confined to a thin bed of black, shaly siltstone a few inches to 2 feet thick which is overlain by coarse arkosic sandstone and underlain by impure limestone. Of four anomalies detected from the air, only one was located on the ground. Assays

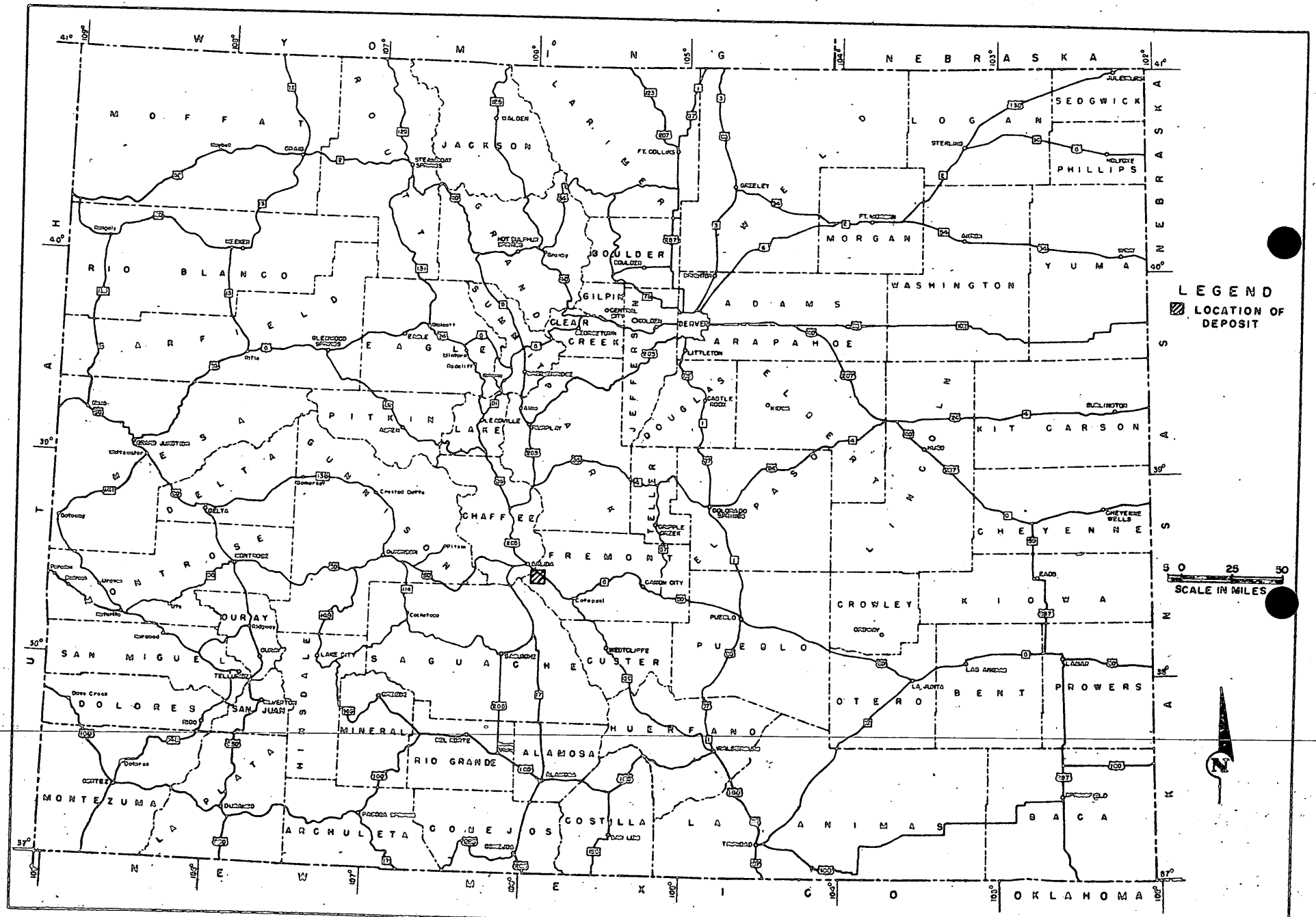


FIGURE 1 - LOCATION MAP, SOUTHMOST MINERALS LTD., SOUTHMOST GROUP, FREMONT COUNTY, COLO. DMEA 4076

submitted by the applicant were reported to contain 0.17 and 0.22 percent $U_3O_8$. Three samples of the most radioactive parts of the exposures were taken by the examiners. These assayed only 0.005, 0.007 and 0.007 percent equivalent U.

There is little or no possibility of uranium occurring on the property in commercial grade in the very thin shale bed. It is, therefore, recommended that this application for DMEA exploration assistance be denied.

## ACKNOWLEDGMENTS

Marshall V. Clark and Robert M. Reynolds, partners, Southmost Minerals, Ltd., were contacted in Salida and accompanied the examining team over the property on March 29, 1956. The Denver Exploration Branch of the Atomic Energy Commission was consulted. They have no information on this property.

## LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

Southmost Minerals Ltd., have recorded 14 contiguous lode locations in the Badger Creek mining district in Fremont County, Colorado, (figs. 1 and 2). These claims are in secs. 28, 29, 32, and 33, T. 49 N., R. 10 E., New Mexico principal meridian. The claims extend along Spring Creek, from U. S. Highway 50 southward for over 7,000 feet. The claims range in altitude from 7,000 to approximately 8,000 feet. They are 13 miles from Salida, Colorado, by U. S. Highway 50. The claims are southeast of Salida which is the nearest town of consequence. The

north end of the claims covers the Arkansas River and is just south of the right of way of the Denver and Rio Grande Western Railroad. The terrain is rugged and mountainous. Water is available from the Arkansas River. All manner of supplies and labor are obtainable at Salida.

## HISTORY AND PRODUCTION

There has been no previous development or exploration on the property and there has been no production of minerals of any kind to date. During June and July 1955, Southmost Minerals, Ltd. filed on the contiguous group of Southmost claims. Approximately 150 feet of outcrop was stripped with a bulldozer and about one-half mile of rough access road was completed. During July 1955, the property was flown in a Cessna 170 plane equipped with ionization chamber type radiation equipment. A report was made on the property by Allen W. Stewart, consulting geologist for Upex, Inc., on July 21, 1955. On January 8, 1956, J. M. Dwight, Jr., consulting geologist, submitted a report on the property.

## OWNERSHIP

Southmost Minerals, Ltd., is a limited partnership incorporated under the laws of Texas. Control of the partnership is vested in the one general partner, Marshall V. Clark, who is also general manager. His address is 75 Ringgold Street, Brownsville, Texas. The following are also partners in Southmost Minerals, Ltd.

| | | |
|---|---|---|
| Martin E. Garcia | 1424 E. Washington Street | Brownsville, Texas |
| Robert M. Reynolds | 245 Sunset Drive | " " |
| Oscar S. Gomez | 500 E. Levee Street | " " |
| Paul Y. Cunningham | 1827 Palm Blvd. | " " |
| D. M. Cooper | 245 Calle Jacaranda | " " |
| J. B. Vance | 11 Retama Drive | " " |
| Roy Hughston | 324 Jacaranda | " " |
| Mrs. Jewell Brooks | 1844 Palm Blvd. | " " |
| T. Gilbert Sharpe | Route 2, Box 687 | " " |
| Joe A. Wheeler | 464 Calle Retama | " " |

During June and July 1955, Marshall V. Clark filed on 14 standard lode locations for Southmost Minerals, Ltd. These claims form a contiguous group in the Badger Creek mining district of Fremont County, Colorado. They are in approximate secs. 28, 29, 32, and 33, in T. 49 N., R. 10 E., New Mexico principal meridian. The claims and other pertinent information are shown on figure 2. The claims are recorded at the Fremont County courthouse at Salida as follows:

| Claim | Date Filed | Courthouse Records Book | Page |
|---|---|---|---|
| Southmost No. 1 | 6/10/55 | 350 | 37 |
| No. 2 | do. | 350 | 38 |
| No. 3 | 7/25/55 | 354 | 102 |
| No. 4 | do. | 354 | 103 |
| No. 5 | do. | 354 | 104 |
| No. 6 | do. | 354 | 105 |
| No. 7 | do. | 354 | 106 |
| No. 8 | do. | 354 | 107 |
| No. 9 | do. | 354 | 108 |
| No. 10 | do. | 354 | 109 |
| No. 11 | do. | 354 | 110 |
| No. 12 | do. | 354 | 111 |
| No. 13 | do. | 354 | 112 |
| No. 14 | do. | 354 | 113 |

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## GEOLOGY

The area of the claims held by Southmost Minerals, Ltd., is underlain by strata of the Minturn formation of Pennsylvanian age. The rocks consist of a thick sequence of red sandstones and conglomerates interbedded with shaly siltstones and impure limestones. The rocks strike about north and dip 30 to 40° E.

Slight abnormal radioactivity is confined to a thin bed of black shaly siltstone, a few inches to 2 feet thick which is overlain by coarse arkosic sandstone and underlain by impure limestone. The black shale was observed at two localities (fig. 2), one along U. S. Highway 50, about 300 feet SE of the bridge crossing Spring Creek and the other at a bulldozer cut about 2,400 feet south along the strike of the black shale bed (designated as anomaly No. 2). No other radioactive localities are known on the claims, Mr. Clark reported that the anomalies found by airborne reconnaissance (anomalies Nos. 1, 3, and 4) could not be found on the ground during a thorough search of the area.

Results of analyses of samples taken at the claims (fig. 2) are listed below:

| Sample Number | Description | % eU | % U |
|---|---|---|---|
| 1 | Carbonaceous shaly siltstone, 1.5 ft., channel sample at prospect pit near center of bulldozer cut at anomaly No. 2. Taken 25' E. of location stake on Southmost No. 2 claim. | 0.007 | 0.005 |
| 2 | Carbonaceous shaly siltstone channel sample over 1.7 ft., from north end of bulldozer cut at anomaly No. 2, sample cut 112 ft. north of discovery post on Southmost No. 2 claim | 0.007 | 0.006 |

| Sample Number | | % eU | % U |
|---|---|---|---|
| 3 | Carbonaceous shaly siltstone about 1 ft. thick. Grab sample of most radioactive material taken at outcrop on south side of U.S.Highway 50, 200 ft. east of Spring Creek bridge. | 0.005 | 0.002 |

There is no basis on which to estimate any kind of reserves.

## PRESENT STATUS

### Exploration and development

About one-half mile of rough and tortuous access road has been constructed along the bed of Spring Creek starting from U. S. Highway 50 on the Southmost No. 1 claim and northward across the Southmost claims Nos. 1 and 2. About 150 feet of the radioactive black shale was stripped by bulldozer on the Southmost No. 2 claim (fig. 2). In addition, a small pit was blasted out to expose the dip extension of the shale bed for about 12 feet.

Four radioactivity anomalies were detected when the property was flown by a Cessna 170 plane equipped with ionization chamber type radiation detection equipment. Only the one anomaly on the Southmost claim No. 2 was found on the ground.

### Mining, milling, and other facilities

There is no equipment and no facilites of any kind on the property.

## APPLICANT'S PROJECT PROPOSAL AND COSTS

Southmost Minerals, Ltd., propose to explore their property with 5,000 feet of core drilling at an over-all cost of $24,250, distributed as follows:

| | | |
|---|---|---|
| (a) 5,000 feet of core drilling of holes 200 to 600 feet deep at $4/ft. This rate was quoted by the Moab Drilling Co., and included the services of a consulting geologist and all laboratory assay work. 5,000 feet at $4 | $20,000.00 | |
| (b) Construction of about 5,000 feet of drill access roads over very rough terrain | $ 1,250.00 | |
| (c) Supervision, location of drill sites, handling core and preparing core for assays, $500/month for 6 months | $ 3,000.00 | |
| Total | | $24,250.00 |

During the examination the applicant could not outline a definite exploration program. However, on March 31, 1956, he proposed a definite exploration program consisting of 12 holes on the Southmost No. 2 claim as shown on figure 2. Exploration drilling would consist of four rows of holes 50 feet apart in a N-S direction. The first row of three holes would be 50, 75, and 100 feet respectively east of the discovery post on the Southmost No. 2 claim. The second row of three holes would be 50 feet south of the first row. The third and fourth rows of holes would be 50 and 100 feet respectively north of the first row of holes. The holes would be progressively deeper to the east. The first hole east would be about 52 feet deep; the second hole east would be about 92 feet deep and the third hole east would be about 134 feet deep.

The applicant's exploration program would consist of about 1,152 feet of exploration drilling comprising 12 holes. Of this total, 156 feet would be cored. The applicant expects to submit drilling bids later.

## CONCLUSIONS AND RECOMMENDATIONS

Although the owners report uranium analyses ranging as high as 0.17 and 0.22 percent $U_3O_8$, the examiners could find no material of this grade on the property. The results of analyses made on samples taken by the examiners are believed to be representative of the most radioactive material present in significant amounts. There is little or no possibility of uranium of commercial grade occurring on the property.

It is, therefore, recommended that Southmost Minerals, Ltd.'s request for DMEA assistance to explore their Southmost group of claims for uranium be denied.

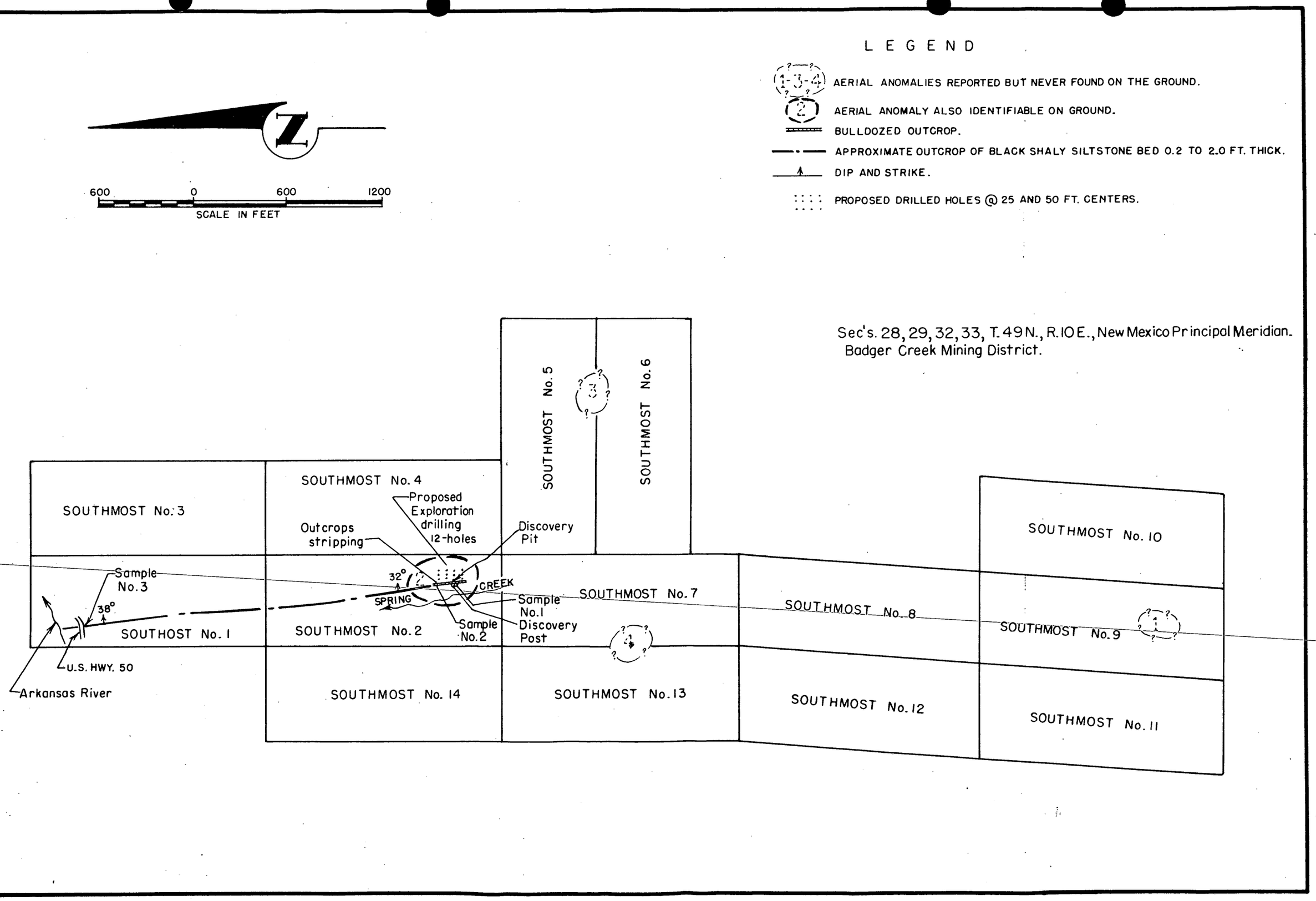


FIGURE 2 - CLAIM AND EXPLORATION MAP, SOUTHMOST MINERALS LTD., SOUTHMOST GROUP, FREMONT COUNTY, COLO.

DMEA 4076

4-26-56

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

RECEIVED
APR 23 1956

April 20, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4076 (Uranium) Southmost Minerals Ltd., (Southmost claim group) Fremont County, Colorado

Enclosed are the original and three copies of a joint engineering and geologic report on the subject property.

This is the application that Congressman Joe M. Kilgore and Senator Lyndon B. Johnson recommended the Applicants to Mr. C. O. Mittendorf in their letters dated March 12, 1956.

The field examiners conclude that there is little or no possibility of uranium occurring on the property in significant amounts, and they recommend that this application for DMEA aid be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE
4-25-56
(date)

RECEIVED

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APR 23 1956

DMEA
Date Rec'd.

APR 20 1956

BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

April 19, 1956

TRANSMITTED

APR 20 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: J. F. Shaw
E. N. Harshman

Subject: DMEA Docket 4076 (Uranium), Southwest Minerals, Ltd., (Southwest claim group), Fremont County, Colorado

Enclosed are the original and nine copies of a joint examination report by R. C. Vickers, Geological Survey, and C. M. Harrer, Bureau of Mines, in which denial of the subject application for exploration assistance is recommended.

The applicant proposed to explore the Southwest claims by 5,000 feet of drilling at an estimated over all cost of $24,250. The applicant subsequently reduced the proposed program to 12 holes for a total of 996 feet of drilling.

Minor amounts of uranium occur in a thin, black, shaly siltstone bed in the Minturn formation of Pennsylvanian age. Although the applicant reports samples containing as much as 0.22 percent $U_3O_8$, samples taken by the examining team indicate a much lower average uranium content.

The examiners conclude that significant uranium deposits will not be discovered by the proposed exploration.

We concur with the recommendation that the application for exploration assistance, DMEA Docket 4076, be denied.

J. F. Shaw
Superintendent of the Denver Experiment Station

Reviewed by
DMEA OPERATING COMMITTEE
4-25-56
(date)

E. N. Harshman
Member, Field Team

Enclosures (10)
ENHarshman:mp

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

RECEIVED
APR 23 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED
APR 20 1956

DMEA 4076

Southmost Minerals, Ltd.

Southmost Group

Fremont County, Colorado

Uranium

Joint Engineering and Geological Report

by

R. C. Vickers, Geologist
Geological Survey

C. M. Harrer, Mining Engineer
Bureau of Mines

April 19, 1956

Reviewed by
DMEA OPERATING COMMITTEE
4-25-56
(date)

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DMEA 4076

RECEIVED
APR 23 1956

SOUTHMOST MINERALS, LTD.
SOUTHMOST GROUP
FREMONT COUNTY, COLORADO

## INTRODUCTION AND SUMMARY

Southmost Minerals Ltd. is a limited partnership authorized under the laws of Texas. Mr. Marshall V. Clark is its general partner and general manager and can be reached at 75 Ringgold Street, Brownsville, Texas. Southmost Minerals Ltd., requested Defense Minerals Exploration Administration assistance to explore their property for uranium by a program of 5,000 feet of core drilling at an overall cost of $24,250. On March 31, 1956, the applicant revised his exploration request to 12 holes totalling 996 feet of non-core and 156 feet of core drilling. Their property comprises a contiguous group of 14 standard lode locations in secs. 28, 29, 32, and 33, T. 49 N., R. 10 E., N.M.P.M., in the Badger Creek mining district of Fremont County, Colorado. The property was examined for the Defense Minerals Exploration Administration by a joint team comprising members of the Geological Survey and Bureau of Mines on March 29, 1956. The examining team was accompanied by Marshall V. Clark and Robert M. Reynolds for the applicant.

Slight, abnormal radioactivity is confined to a thin bed of black, shaly siltstone a few inches to 2 feet thick which is overlain by coarse arkosic sandstone and underlain by impure limestone. Of four anomalies detected from the air, only one was located on the ground. Assays

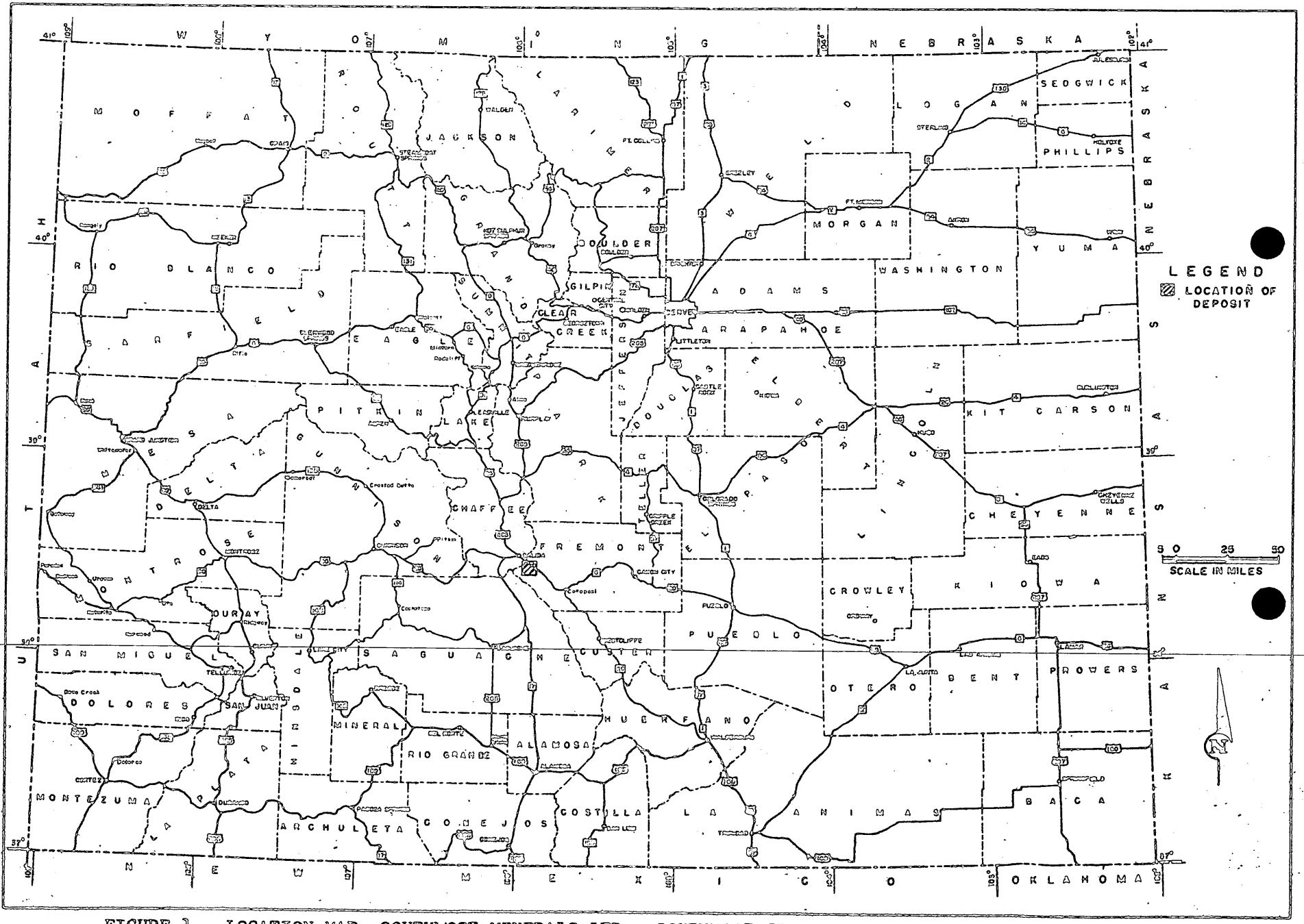


FIGURE 1 - LOCATION MAP, SOUTHMOST MINERALS LTD., SOUTHMOST GROUP, FREMONT COUNTY, COLO. DMEA 4076

submitted by the applicant were reported to contain 0.17 and 0.22 percent $U_3O_8$. Three samples of the most radioactive parts of the exposures were taken by the examiners. These assayed only 0.005, 0.007 and 0.007 percent equivalent U.

There is little or no possibility of uranium occurring on the property in commercial grade in the very thin shale bed. It is, therefore, recommended that this application for DMEA exploration assistance be denied.

## ACKNOWLEDGMENTS

Marshall V. Clark and Robert M. Reynolds, partners, Southmost Minerals, Ltd., were contacted in Salida and accompanied the examining team over the property on March 29, 1956. The Denver Exploration Branch of the Atomic Energy Commission was consulted. They have no information on this property.

## LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

Southmost Minerals, Ltd., have recorded 14 contiguous lode locations in the Badger Creek mining district in Fremont County, Colorado, (figs. 1 and 2). These claims are in secs. 28, 29, 32, and 33, T. 49 N., R. 10 E., New Mexico principal meridian. The claims extend along Spring Creek, from U. S. Highway 50 southward for over 7,000 feet. The claims range in altitude from 7,000 to approximately 8,000 feet. They are 13 miles from Salida, Colorado, by U. S. Highway 50. The claims are southeast of Salida which is the nearest town of consequence. The

north end of the claims covers the Arkansas River and is just south of the right of way of the Denver and Rio Grande Western Railroad. The terrain is rugged and mountainous. Water is available from the Arkansas River. All manner of supplies and labor are obtainable at Salida.

## HISTORY AND PRODUCTION

There has been no previous development or exploration on the property and there has been no production of minerals of any kind to date. During June and July 1955, Southmost Minerals, Ltd. filed on the contiguous group of Southmost claims. Approximately 150 feet of outcrop was stripped with a bulldozer and about one-half mile of rough access road was completed. During July 1955, the property was flown in a Cessna 170 plane equipped with ionization chamber type radiation equipment. A report was made on the property by Allen W. Stewart, consulting geologist for Upex, Inc., on July 21, 1955. On January 8, 1956, J. M. Dwight, Jr., consulting geologist, submitted a report on the property.

## OWNERSHIP

Southmost Minerals, Ltd., is a limited partnership incorporated under the laws of Texas. Control of the partnership is vested in the one general partner, Marshall V. Clark, who is also general manager. His address is 75 Ringgold Street, Brownsville, Texas. The following are also partners in Southmost Minerals, Ltd.

| | | |
|---|---|---|
| Martin E. Garcia | 1424 E. Washington Street | Brownsville, Texas |
| Robert M. Reynolds | 245 Sunset Drive | " " |
| Oscar S. Gomez | 1500 E. Levee Street | " " |
| Paul Y. Cunningham | 1827 Palm Blvd. | " " |
| D. M. Cooper | 245 Calle Jacaranda | " " |
| J. B. Vance | 11 Retama Drive | " " |
| Roy Hughston | 324 Jacaranda | " " |
| Mrs. Jewell Brooks | 1844 Palm Blvd. | " " |
| T. Gilbert Sharpe | Route 2, Box 687 | " " |
| Joe A. Wheeler | 464 Calle Retama | " " |

During June and July 1955, Marshall V. Clark filed on 14 standard lode locations for Southmost Minerals, Ltd. These claims form a contiguous group in the Badger Creek mining district of Fremont County, Colorado. They are in approximate secs. 28, 29, 32, and 33, in T. 49 N., R. 10 E., New Mexico principal meridian. The claims and other pertinent information are shown on figure 2. The claims are recorded at the Fremont County courthouse at Salida as follows:

| Claim | Date Filed | Courthouse Records Book | Page |
|---|---|---|---|
| Southmost No. 1 | 6/10/55 | 350 | 37 |
| No. 2 | do. | 350 | 38 |
| No. 3 | 7/25/55 | 354 | 102 |
| No. 4 | do. | 354 | 103 |
| No. 5 | do. | 354 | 104 |
| No. 6 | do. | 354 | 105 |
| No. 7 | do. | 354 | 106 |
| No. 8 | do. | 354 | 107 |
| No. 9 | do. | 354 | 108 |
| No. 10 | do. | 354 | 109 |
| No. 11 | do. | 354 | 110 |
| No. 12 | do. | 354 | 111 |
| No. 13 | do. | 354 | 112 |
| No. 14 | do. | 354 | 113 |

## GEOLOGY

The area of the claims held by Southmost Minerals, Ltd., is underlain by strata of the Minturn formation of Pennsylvanian age. The rocks consist of a thick sequence of red sandstones and conglomerates interbedded with shaly siltstones and impure limestones. The rocks strike about north and dip 30 to 40° E.

Slight abnormal radioactivity is confined to a thin bed of black shaly siltstone, a few inches to 2 feet thick which is overlain by coarse arkosic sandstone and underlain by impure limestone. The black shale was observed at two localities (fig. 2), one along U. S. Highway 50, about 300 feet SE of the bridge crossing Spring Creek and the other at a bulldozer cut about 2,400 feet south along the strike of the black shale bed (designated as anomaly No. 2). No other radioactive localities are known on the claims, Mr. Clark reported that the anomalies found by airborne reconnaissance (anomalies Nos. 1, 3, and 4) could not be found on the ground during a thorough search of the area.

Results of analyses of samples taken at the claims (fig. 2) are listed below:

| Sample Number | Description | % eU | % U |
|---|---|---|---|
| 1 | Carbonaceous shaly siltstone, 1.5 ft., channel sample at prospect pit near center of bulldozer cut at anomaly No. 2. Taken 25' E. of location stake on Southmost No. 2 claim. | 0.007 | 0.005 |
| 2 | Carbonaceous shaly siltstone channel sample over 1.7 ft., from north end of bulldozer cut at anomaly No. 2, sample cut 112 ft. north of discovery post on Southmost No. 2 claim | 0.007 | 0.006 |

| Sample Number | | % eU | % U |
|---|---|---|---|
| 3 | Carbonaceous shaly siltstone about 1 ft. thick. Grab sample of most radioactive material taken at outcrop on south side of U.S.Highway 50, 200 ft. east of Spring Creek bridge. | 0.005 | 0.002 |

There is no basis on which to estimate any kind of reserves.

## PRESENT STATUS

### Exploration and development

About one-half mile of rough and tortuous access road has been constructed along the bed of Spring Creek starting from U. S. Highway 50 on the Southmost No. 1 claim and northward across the Southmost claims Nos. 1 and 2. About 150 feet of the radioactive black shale was stripped by bulldozer on the Southmost No. 2 claim (fig. 2). In addition, a small pit was blasted out to expose the dip extension of the shale bed for about 12 feet.

Four radioactivity anomalies were detected when the property was flown by a Cessna 170 plane equipped with ionization chamber type radiation detection equipment. Only the one anomaly on the Southmost claim No. 2 was found on the ground.

### Mining, milling, and other facilities

There is no equipment and no facilites of any kind on the property.

## APPLICANT'S PROJECT PROPOSAL AND COSTS

Southmost Minerals, Ltd., propose to explore their property with 5,000 feet of core drilling at an over-all cost of $24,250, distributed as follows:

| | | |
|---|---|---|
| (a) 5,000 feet of core drilling of holes 200 to 600 feet deep at $4/ft. This rate was quoted by the Moab Drilling Co., and included the services of a consulting geologist and all laboratory assay work. 5,000 feet at $4 | $20,000.00 | |
| (b) Construction of about 5,000 feet of drill access roads over very rough terrain | $ 1,250.00 | |
| (c) Supervision, location of drill sites, handling core and preparing core for assays, $500/month for 6 months | $ 3,000.00 | |
| Total | | $24,250.00 |

During the examination the applicant could not outline a definite exploration program. However, on March 31, 1956, he proposed a definite exploration program consisting of 12 holes on the Southmost No. 2 claim as shown on figure 2. Exploration drilling would consist of four rows of holes 50 feet apart in a N-S direction. The first row of three holes would be 50, 75, and 100 feet respectively east of the discovery post on the Southmost No. 2 claim. The second row of three holes would be 50 feet south of the first row. The third and fourth rows of holes would be 50 and 100 feet respectively north of the first row of holes. The holes would be progressively deeper to the east. The first hole east would be about 52 feet deep; the second hole east would be about 92 feet deep and the third hole east would be about 134 feet deep.

The applicant's exploration program would consist of about 1,152 feet of exploration drilling comprising 12 holes. Of this total, 156 feet would be cored. The applicant expects to submit drilling bids later.

## CONCLUSIONS AND RECOMMENDATIONS

Although the owners report uranium analyses ranging as high as 0.17 and 0.22 percent $U_3O_8$, the examiners could find no material of this grade on the property. The results of analyses made on samples taken by the examiners are believed to be representative of the most radioactive material present in significant amounts. There is little or no possibility of uranium of commercial grade occurring on the property.

It is, therefore, recommended that Southmost Minerals, Ltd.'s request for DMEA assistance to explore their Southmost group of claims for uranium be denied.

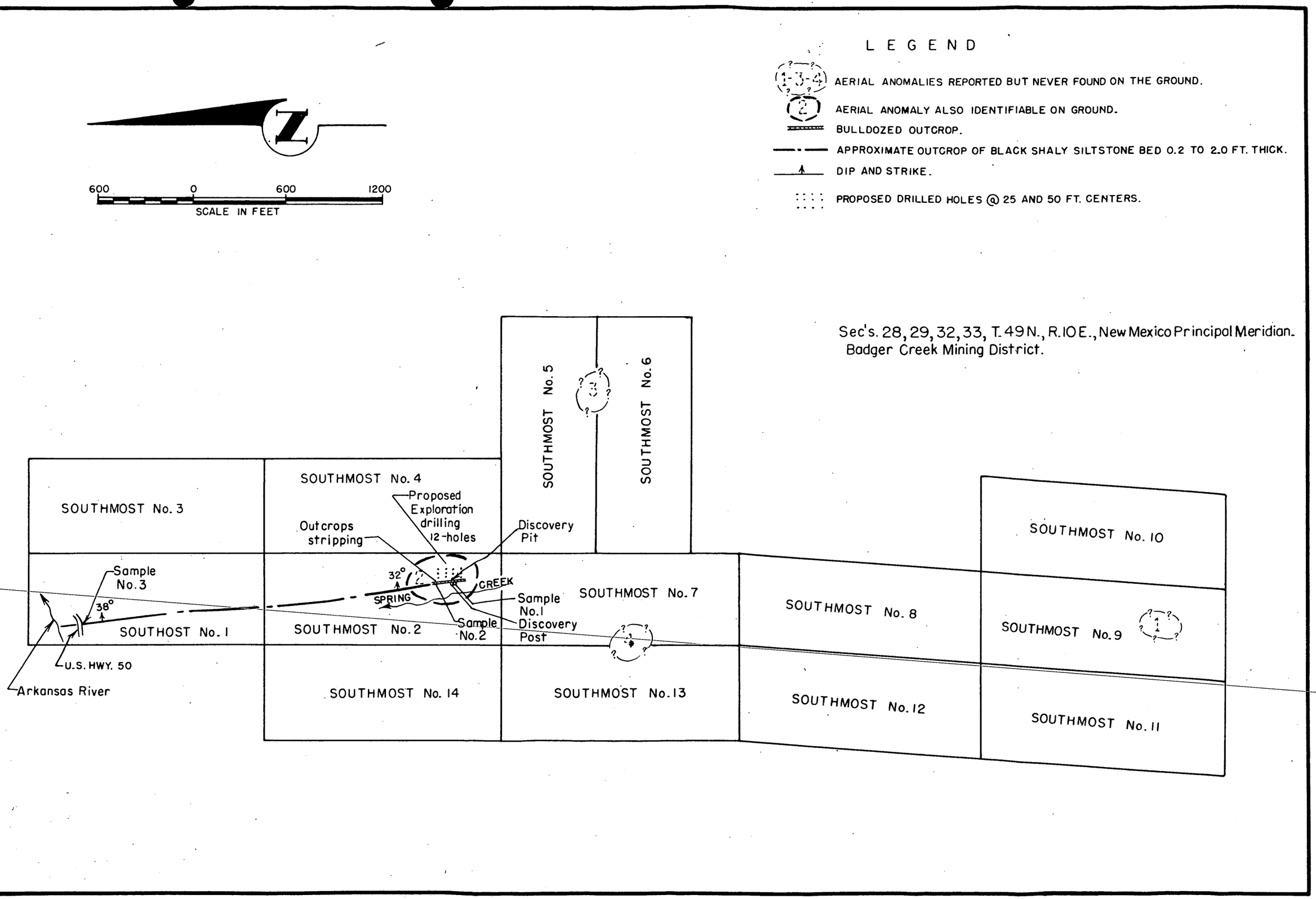


FIGURE 2 – CLAIM AND EXPLORATION MAP, SOUTHMOST MINERALS LTD., SOUTHMOST GROUP, FREMONT COUNTY, COLO.

DMEA 4076

4-11-56

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

224 New Customhouse
Denver 2, Colorado

April 9, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA
Attention: Administrator, C. O. Mittendorf

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-4076 (Uranium) Southmost Minerals, Ltd. (Southmost claims) Fremont County, Colorado

Following up my memorandum of March 15, 1956 concerning the status of the subject application for your use in informing the two Texas Congressmen of what has transpired, the following is added:

You were mailed two copies of a letter, dated March 15 from J. F. Shaw, Supervising Mining Engineer, to Marshall V. Clark regarding a field examination.

The last weekly reports from both field offices state that a joint examination was made on March 29 and reports are in preparation. Denial is indicated.

W. M. Traver

W. M. Traver

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

RECEIVED
APR 11 1956

224 New Customhouse
Denver 2, Colorado

April 9, 1956

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W. M. TRAVER

W. M. Traver

Surname copy

700

Murphy
Mittendorf

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

MAR 21 1956

on. Lyndon B. Johnson
nited States Senate
Senate Office Building
Washington 25, D. C.

Re: Docket No. DMEA-4076 (Uranium)
Southwest Minerals Ltd.
Southwest claims
Fremont County, Colorado

My dear Senator Johnson:

Your letter, dated March 12, 1956, addressed to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Region III, has been referred to this office for reply.

The captioned application has been referred to our Regional Field Team for a field examination and recommendation. The Applicant has been requested to notify the Executive Officer the approximate date that the subject property will be accessible.

From knowledge of the area where the property is located and the fact that the snowfall at the higher altitudes in Colorado is about 50 percent above normal, it is anticipated that bad road conditions and snow-covered terrain will delay the field examination until late spring. However, it will be made as soon as the Applicant advises the Field Team Executive Officer that the property is accessible and arranges for a representative to accompany the examiners.

I wish to thank you for forwarding the letter from Mr. Sharpe and Mr. Cunningham for our information. The letter is returned herewith for your files; copies have been made for our files.

If I can be of any further assistance, please advise me.

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/gla
3-20-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm.5221
JOHosted, Rm.3210, GSA
Code 700, Mr. Murphy
DMEA Field Team, Region III
(2)

Enclosure

R.C.L.

RECEIVED
MAR 15 1956

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
March 15, 1956

Mr. Marshall V. Clark
Southwest Minerals, Ltd.
75 Ringgold Street
Brownsville, Texas

Reference: DMA 4076

Dear Mr. Clark,

Reference is made to your application for exploration assistance on your claims in Fremont County, Colorado, docket No. DMA 4076.

Please advise this office when the property is accessible, so that we may schedule a field examination.

Very truly yours,

John F. Shaw
Supervising Mining Engineer

JFS/mv
DMA 4075
Chron.
Weaver.

3/19/56 gla

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

RECEIVED
MAR 19 1956

224 New Customhouse
Denver 2, Colorado

March 15, 1956

Memorandum

To: Secretary to the Operating Committee for
Attention: Administrator C. O. Mittendorf

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA-4076 (Uranium) Southmost Minerals, Ltd., (Southmost claims), Fremont County, Colorado

Enclosed is a copy of a letter from Senator Lyndon B. Johnson to which is attached a letter signed by two of his constituents with reference to the subject docket.

The application was submitted direct to Washington and the following is a resume of actions to date on it as shown by our files:

Letter December 21, 1955; E. W. Ellis to applicant requesting additional information.

Letter February 3, 1956; E. W. Ellis to applicant referring to non receipt of information requested December 21, 1955.

Letter March 2, 1956; Chairman, Operating Committee to Executive Officer, DMEA Region III, referring application to field with copies of memoranda from Commodity Committee.

Memoranda March 6, 1956; Executive Officer to Shaw and Harshman referring application to field for examination and reports.

Shaw and Harshman report that they are writing the applicant, addressing the letter to Mr. Marshall V. Clark requesting him to notify them when the property will be accessible so an examination can be scheduled.

RECEIVED
MAR 1 5 1956

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
March 15, 1956

Mr. Marshall V. Clark
Southwest Minerals, Ltd.
75 Ringgold Street
Brownsville, Texas

Reference: DMEA 4076

Dear Mr. Clark,

Reference is made to your application for exploration assistance on your claims in Fremont County, Colorado, docket No. DMEA 4076.

Please advise this office when the property is accessible, so that we may schedule a field examination.

Very truly yours,

John F. Shaw
Supervising Mining Engineer

JFS/mw
DMEA 4076
Chron.
Whatever.

From knowledge of the area where the property is located and the fact that snow at the higher altitudes in Colorado is about 50 percent above normal, we are of the opinion that it will be some time before it will be possible to make the examination. However, it will be made as soon as Mr. Clark advises the field and arranges for a representative to accompany the examiners.

Please have the Administrator reply to Senator Johnson with a copy for our files.

W. M. Traver

Enclosures

W. M. Traver

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

RECEIVED
MAR 19 1956

AIR MAIL

224 New Customhouse
Denver 2, Colorado

March 15, 1956

Memorandum

To: Secretary to the Operating Committee for
Attention: Administrator C. O. Mittendorf

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA-4076 (Uranium) Southmost Minerals, Ltd., (Southmost claims), Fremont County, Colorado

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Shaw and Harshman report that they are writing the applicant, addressing the letter to Mr. Marshall V. Clark requesting him to notify them when the property will be accessible so an examination can be scheduled.

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Please have the Administrator reply to Senator Johnson with a copy for our files.

W. M. TRAVER

Enclosures

W. M. Traver

LYNDON B. JOHNSON
TEXAS

RECEIVED
MAR 19 1956

DMEA
Date Rec'd
MAR 15 1956
BUREAU OF MINES
Denver, Colorado

United States Senate
Office of the Democratic Leader
Washington, D. C.

March 12, 1956

Dear Sir:

I am enclosing a communication which I have received from one of my constituents. I will appreciate your giving serious consideration to this problem, based on its merits.

Please let me have as prompt a reply as possible, returning the enclosure, in order that I can inform the writer.

Sincerely,

Lyndon B. Johnson

Lyndon B. Johnson

P. S. Please address reply to Lyndon B. Johnson, U.S. Senate, Washington, D. C. If additional information is required, please telephone Mr. Jack Hight NA 8-3120, Extension 1660.

Mr. W. M. Traver, Executive Officer
Defense Minerals Exploration Administration Field Team
Region III
224 New Custom House Building
Denver, Colorado

LYNDON B. JOHNSON
TEXAS

RECEIVED
MAR 19 1956

United States Senate
Office of the Democratic Leader
Washington, D. C.

DMEA
Date Rec'd
MAR 15 1956
BUREAU OF MINES
Denver, Colorado

March 12, 1956

Dear Sir:

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Mr. W. M. Traver, Executive Officer
Defense Minerals Exploration Administration Field Team
Region III
224 New Custom House Building
Denver, Colorado

SHARPE, CUNNINGHAM & GARZA
ATTORNEYS AT LAW
BROWNSVILLE, TEXAS

T. GILBERT SHARPE
PAUL Y. CUNNINGHAM
REYNALDO G. GARZA
GEORGE W. STORTER
WM. A. FAULK
HECTOR YZNAGA

9 March 1956

RECEIVED
MAR 19 1956

RECEIVED
MAR 12 1956

Honorable Lyndon B. Johnson
United States Senator
Senate Building
Washington, D.C.

Dear Lyndon:

We would appreciate it very much if you would assist us in a personal matter. Both of us are partners in a limited partnership formed of Brownsville people, and we hold fourteen uranium claims in Fremont County, Colorado. In addition to both of us, the other members of the partnership (which is named 'Southmost Minerals, Ltd.') are:

D. M. Cooper, Manager of J. C. Penney Co., Inc.
Martin E. Garcia, Rancher.
Robert M. Reynolds, Shrimp Dealer,
Oscar S. Gomez, Manager of Brown Express.
J. B. Vance, Tractor and Implement Dealer.
Ray Hughston, Insurance Agent.
Mrs. Jewell Brooks (wife of C. W. Brooks, owner of Central Walgreen Drug).
Marshall V. Clark, Automobile Salesman.
Joe A. Wheeler, Owner of Small Loan Company.

All of these people are longtime residents of Brownsville, and some of them you may recall personally.

We have filed application with the Department of the Interior, Defense Minerals Exploration Administration, our application being Docket No. DMEA-4076 (Uranium) - Southmost Claims Nos. 1 thru 14, Fremont County, Colorado; for the purpose of securing a 75% loan from the Department of the Interior for further exploration. We know we have uranium, but it requires substantial core drilling to ascertain if there is enough of it.

Our application has been processed and we are advised that it has now been transferred to the Field Office, being Mr. W. M. Traver, Executive Officer DMEA Field Team, Region III, in Denver, Colorado.

The main thing we are interested in is to let the Government officials know that we are not promotors, or fly-by-night operators; but are the ordinary American business man engaging in a private enterprise which we hope will be productive both to ourselves and to the Government. In other words, we feel that our application does have merit, and if you would simply verify to the DMEA that we are reputable people who carry out our obligations, we feel it will be of assistance. We feel that our application to further explore on our uranium claims has merit, and we feel that your word of identification of us would be helpful.

I trust that this finds your health continuing good.

Personal regards,

T. Gilbert Sharpe

T. Gilbert Sharpe

Paul Y. Cunningham

Paul Y. Cunningham

PYC-s

700

FILE COPY
Surname: Murphy

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

MAR 14 1956

Hon. Joe M. Kilgore
House of Representatives
Washington 25, D. C.

Re: Docket No. DMEA-4076 (Uranium)
Southwest Minerals Ltd.
Southwest claims
Fremont County, Colorado

My dear Mr. Kilgore:

This is in response to your letter of March 12, relating to the character and responsibility of the men comprising the Southwest Minerals Ltd.

The referenced application, dated November 22, 1955, lacked essential information. In answer to our request the additional information was submitted, reaching here on February 14. The application was again reviewed here in Washington and referred to our Region III Field Team, on March 2, for further processing.

We are forwarding copies of your letter to the Field Team for their information. Be assured the subject application will receive every consideration. If we can be of any further assistance, please call upon us.

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/izm 3-12-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.O.K.

JOE M. KILGORE
15TH DISTRICT, TEXAS

700

# Congress of the United States
## House of Representatives
### Washington, D. C.

12 March 1956

RECEIVED
MAR 13 1956

Mr C O Mittendorf, Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D C

Dear Mr Mittendorf

This is with reference to an application that has been filed with the Defense Minerals Exploration Administration, Docket No DMEA-4076 (Uranium), Southmost Claims Nos. 1 thru 14, Fremont County, Colorado, by a partnership known as Southmost Minerals, Limited.

I am especially well acquainted with Mr T Gilbert Sharpe and Mr Paul Y Cunningham, Attorneys at Law from Brownsville, Texas, who are members of the partnership seeking the government assistance loan from DMEA.

These men are highly reputable, substantial businessmen engaged in a project of private enterprise that they hope will be productive both to the government and to themselves.

I will appreciate your giving their application all possible consideration in the light of their responsibility and the reputation which they enjoy for honesty and integrity among all with whom they do business.

Any information which you might be able to give to me will be sincerely appreciated.

Very truly yours,

Joe M. Kilgore

M C

bc

Joe M. Kilgore
15th District, Texas

CONGRESS OF THE UNITED STATES
HOUSE OF REPRESENTATIVES
WASHINGTON, D. C.

12 March 1956 Recd. 3-13-56

Mr. C O Mittendorf, Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D C

Dear Mr Mittendorf

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These men are highly reputable, substantial businessmen engaged in a project of private enterprise that they hope will be productive both to the government and to themselves.

I will appreciate your giving their application all possible consideration in the light of their responsibility and the reputation which they enjoy for honesty and integrity among all with whom they do business.

Any information which you might be able to give to me will be sincerely appreciated.

Very truly yours,

/s/ Joe M. Kilgore

MC

bc

C
O
P
Y

RECEIVED
MAR 12 1956

March 7, 1956

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4076 (Uranium), Southwest Minerals Ltd., Southwest claims, Fremont County, Colorado

The subject application in the amount of $24,250.00 was received in this office on March 6.

A field examination will be made and report prepared by an engineer from the Denver office.

JOHN F. SHAW
John F. Shaw

cc: W. M. Traver (2)
E. H. Harshman
J. F. Shaw
Sec. (2) Com. (2)

RECEIVED
MAR 12 1956

March 7, 1956

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4076 (Uranium), Southwest Minerals Ltd., Southwest claims, Fremont County, Colorado

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JOHN F. SHAW
John F. Shaw

cc: W. M. Traver (2)
R. N. Barshman
J. F. Shaw
See Sp. Com (2)

3/9/56

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

RECEIVED MAR - 9 1956

March 6, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (2) (With brochure)
E. N. Harshman

From: Field Team, Region III

Subject: Docket DMEA 4076 (Uranium), Southwest Minerals Ltd., Southwest claims, Fremont County, Colorado

Enclosed is the subject application in the amount of $24,250.00. A field examination and suitable report are requested.

Your attention is directed to the attached copy of a letter from the Chairman of the Operating Committee dated March 2, 1956 and the memoranda of review of the application by John E. Crawford and N. E. Nelson.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4076
Chron.

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

RECEIVED
MAR - 9 1956

March 6, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (2) (With brochure)
E. N. Marshman

From: Field Team, Region III

Subject: Docket DMEA 4076 (Uranium), Southwest Minerals Ltd., Southwest claims, Fremont County, Colorado

Enclosed is the subject application in the amount of $24,250.00. A field examination and suitable report are requested.

Your attention is directed to the attached copy of a letter from the Chairman of the Operating Committee dated March 2, 1956 and the memoranda of review of the application by John E. Crawford and N. E. Nelson.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4076
Chron.

700

FILE COPY
Surname:
Murphy
Selfridge

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

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
22[illegible] Customhouse Building
Denver 2, Colorado

MAR - 2 1956

Re: Docket No. DMEA-4076 (Uranium)
Southwest Minerals Ltd.
Southwest claims
Fremont County, Colorado

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for investigation, a field examination if deemed advisable, and recommendation.

Enclosed are copies of memoranda, dated February 23, and 27, 1956, from J. E. Crawford, USBM, and M. E. Nelson, USGS, respectively, relating to the subject application. Also enclosed are one copy each of an aerial photograph and a Geologic Report, dated January 8, 1956, by J. M. Dwight, Jr., and two copies of a Reconnaissance Geological Report, dated July 21, 1955, by Allan W. Stewart. One copy of Mr. Dwight's report was forwarded to the Grand Junction office by the USGS commodity member here in Washington.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

/s/ Robert W. Geehan

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

FMMurphy/izm 2-29-56
cc to: Docket
Code 700
Mr. Murphy
Adrm.'s Reading File
Operating Committee
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.H.

700

FILE COPY
Surname:
Murphy
Ellis
Kilgaard
Duhlen
Sefridge
Johnson

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

MAR - 2 1956

Mr. Marshall V. Clark
Southmost Minerals Ltd.
75 Ringgold Street
Brownsville, Texas

Re: Docket No. DMEA-4076 (Uranium)
Southmost claims
Fremont County, Colorado

Dear Mr. Clark:

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/izm 2-29-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.C.L.

2/29/56 dym

700

IN REPLY REFER TO:

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

RECEIVED
FEB 28 1956

February 27, 1956

Re: DMEA 4076
Southmost Minerals, Ltd.
Spring Creek group
Fremont Co., Colorado
$24,250.00 - Uranium

Memorandum

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

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

Subject: Comment on Geologic Report of J. M. Dwight, Jr., submitted by applicant following the request of the Division office for additional information.

Except for the geologic map showing the locations of the proposed drill holes, the subject report supplies little additional information. The "area of claims" shown on the geologic map is not the shape of that of the claim map and it is not possible to relate the proposed drilling to an anomaly or to the points where two samples, the assays of which are again quoted, were taken. One sample, according to the application, was taken at the highway, the other 3,000 feet south of the highway. It is not clear that the proposed drilling, as shown on the map, fits the sampling, the topography and the descriptive matter of the report.

The geologic report says the uranium-bearing black silty shale bed can be traced over a horizontal distance of 2,000 feet on the claims. Only two samples are mentioned as having been taken and the manner of taking the samples is not given.

The application depends largely on two samples for support and if not representative the samples bear little weight. The applicant has as yet failed to supply good supporting information and probably cannot get other samples before summer. In the circumstances, if the Field Team has no information, denial of the applicant without prejudice is in order.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
FEB 28 1956

February 27, 1956

Re: DMEA 4076
Southwest Minerals, Ltd.
Spring Creek group
Fremont Co., Colorado
$24,950.00 - Uranium

Memorandum

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

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

Subject: Comment on Geologic Report of J. M. Bright, Jr., submitted by applicant following the request of the Division office for additional information.

Except for the geologic map showing the locations of the proposed drill holes, the subject report supplies little additional information. The "area of claims" shown on the geologic map is not the shape of that of the claim map and it is not possible to relate the proposed drilling to an anomaly or to the points where two samples, the assays of which are again quoted, were taken. One sample, according to the application, was taken at the highway, the other 1,000 feet south of the highway. It is not clear that the proposed drilling, as shown on the map, fits the sampling, the topography and the descriptive matter of the report.

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The application depends largely on two samples for support and if not representative the samples bear little weight. The applicant has as yet failed to supply good supporting information and probably cannot get other samples before summer. In the circumstances, if the Field Team has no information, denial of the applicant without prejudice is in order.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-2/27/56
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

2-24-56 dgm

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

RECEIVED
FEB 24 1956

February 23, 1956

Memorandum

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

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

Subject: Additional information, DMEA Docket 4076, South~~west~~ mont Minerals, Ltd., Spring Creek, Fremont County, Colorado

I have reviewed the attached additional information, South-west Minerals, Ltd., DMEA Docket 4076, dated February 11 and received in this office February 15. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

After having reviewed the supplemental data supplied by Paul Y. Cunningham of Southwest Minerals, Ltd., we suggest that the application be referred to the field examiners for review and possible field examination. It is also recommended that the Field Team consult with D. L. Everhart, Atomic Energy Commission, Denver, Colorado.

The information provided by the applicant describes mineralized zones shown in two outcrops on the property. Material from the outcrops assayed from .17 percent $U_3O_8$ to .22 percent $U_3O_8$. Airborne radiometric work conducted over the property indicated four radioactivity anomalies. A prospect pit dug at the site of one anomaly exposed mineralization reported to average .22 percent $U_3O_8$.

John E Crawford
John E. Crawford

Attachment

2/15/56

# SOUTHMOST MINERALS, LTD.

75 RINGGOLD — DIAL LINCOLN 6-1390
BROWNSVILLE, TEXAS

MARSHALL V. CLARK
GENERAL PARTNER

2/15

RECEIVED
FEB 14 1956

11 February 1956

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division
U.S. Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D.C.

Re: Your Docket No. DMEA-4076
(Uranium)
Southmost Claims Nos. 1
through 14
Fremont County, Colorado.

Dear Sir:

Reference is made to your letter of December 21st, in which you requested certain other maps and information; and also to your recent letter of inquiry, in which you stated you had not received the materials requested in your letter of December 21st.

Mr. Marshall V. Clark, General Manager of Southmost Minerals, Ltd., had assembled the various items requested in your letter of December 21st, but then was called from the State on an urgent matter, and he has not yet returned. Therefore, I am forwarding all the materials as assembled by Mr. Clark, and I trust that they do meet with the requirements set out in your letter of December 21st.

I enclose herewith for you the following:

1) The aerial photograph of the entire area on which the claims of Southmost Minerals, Ltd. are located, the geologist having marked thereon in red ink the location of Anomalies 1, 2, 3 and 4.
2) Geological report, in quadruplicate, prepared by J. M. Dwight, Jr., Geologist, dated January 8, 1956, containing the items of fact and information requested in your letter of December 21st, in the geological report.
3) The original Reconnaissance Geological Report by Allen W. Stewart, of Upex Inc., dated July 21, 1955, of which three true copies have been prepared, being a total of four returned herewith, as requested in your letter of December 21st.

Your recent letter expressed inquiry as to whether we were still interested in our application with you. We are most definitely interested, and desire to pursue the application.

In the event other matters are required by your office, please advise.

Yours very truly,

SOUTHMOST MINERALS, LTD.

By Paul Y. Cunningham
General Counsel and
Special Partner.

PYC-s
Encl.

# RECONNAISSANCE GEOLOGICAL REPORT

on

# SOUTHWEST MINERALS LIMITED PROPERTY

in

# SPRING CREEK, FREMONT CO., COLORADO

By

ALLEN W. STEWART
Upex Inc.
July 21st, 1955

## INTRODUCTION

On July 20, 1955, at the request of Mr. Marshall Clark, an aerial radiation survey was flown in the Spring Creek ares of Fremont County, Colorado. Included with this report are aerial photographs showing the location of anomalies.

### LOCATION

The area is located in Spring Creek, approximately 9 miles east of Salida, Colorado in Fremont County, Colorado. It consists of 4 claims with one additional claim under option.

### ACCESSIBILITY

The property is readily accessible by traveling 9 miles east of Salida, Colorado, on U.S. Highway 50 to the west end of a railroad tunnel.

### PHYSIOGRAPHY

The topography of the area is mountainous with an approximate elevation of 7000' above sea level. Snows are common in the winter but an all weather highway runs just south of the claim lines. Timber for mining purposes is available. A year around supply of water is available from the Arkansas River.

### INSTRUMENTATION

The survey was flown in a Cessna 170 aircraft, equipped with ionzation chamber type radiation equipment and an aerial camera. Profiles spaced approximately 100' apart were flown at an altitude of 75'. Both high and low level photographs were taken and are included with this report.

# REGIONAL GEOLOGY

## STRUCTURE and STRATIGRAPHY

The claims under evaluation lie in Spring Creek on the east flank of the Sangre De Cristo Mountain Range.

The rocks outcropping in the area consist of interbedded sandstones, shales and limestones of Permian age. The strata dip to the east approximately 15°. The strata showing mineralization is a black, homogeneous, carbonaceous shale.

## MINERALIZATION

Mineralized zones show in two outcrops on the property. Along Highway 50, a 16" thick outcrop of black shale ran .17% on chemical assay. South of the highway approximately 3000', a pit was dug exposing a 36" thick section of this shale. Chemical assays from samples taken from this pit assayed .22% $U_3O_8$

## AERIAL ANOMALIES

Four aerial anomalies were flown along Spring Creek. They are plotted on the aerial photographs and are numbered as follows:

#1. Aproximately 6000' South of Highway 50 on a ridge above the headwaters of Spring Creek. This was the highest anomaly.

#2. Approximately 3000' South of Highway 50 at the location of the white marker in the photograph.

#3. On the east flank of Spring Creek, approximately due east of anomaly #2.

#4. On the west flank of Spring Creek at the foot of a 200' cliff.

## CONCLUSIONS and RECOMMENDATIONS

There are along Spring Creek, in Fremont County, Colorado, four aerial radiation anomalies. A pit has been dug on one of these anomalies exposing mineralization that runs .22% $U_3O_8$.

Recommendations are as follows:

#1. Anomaly #1 at the headwaters of Spring Creek should be acquired by staking and then be examined more thoroughly on the ground to ascertain whether or not mineralized outcrops are present.

#2. The mineralized zone in anomaly #2 should be opened by drifting a short way to the east, to ascertain whether or not the mineralized zone thickens down dip.

#3. A drilling program of approximately 2500' should be initiated in the dotted area connecting anomalies #2 and 3 to see if the mineralized zones are continuous.

#4. Anomaly #4 should be examined more thoroughly from the ground to see if a probable ore body exists. This anomaly was the weakest of the four.

Respectfully submitted,

/s/ Allen W. Stewart
ALLEN W. STEWART
Geologist

RECEIVED
NOV 28 1955

# RECONNAISSANCE GEOLOGICAL REPORT

on

SOUTHWEST MINERALS LIMITED PROPERTY

in

SPRING CREEK, FREMONT CO., COLORADO

RECEIVED
FEB 14 1956

By

ALLEN W. STEWART
Upex Inc.
July 21st, 1955

RECEIVED
NOV 28 1955

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The area is located in Spring Creek, approximately 9 miles east of Salida, Colorado in Fremont County, Colorado. It consists of 4 claims with one additional claim under option.

## ACCESSIBILITY

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## PHYSIOGRAPHY

The topography of the area is mountainous with an approximate elevation of 7000' above sea level. Snows are common in the winter but an all weather highway runs just south of the claim lines. Timber for mining purposes is available. A year around supply of water is available from the Arkansas River.

## INSTRUMENTATION

The survey was flown in a Cessna 170 aircraft, equipped with ionzation chamber type radiation equipment and an aerial camera. Profiles spaced approximately 100' apart were flown at an altitude of 75'. Both high and low level photographs were taken and are included with this report.

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#4. Anomaly #4 should be examined more thoroughly from the ground to see if a probable ore body exists. This anomaly was the weakest of the four.

Respectfully submitted,

Allen W. Stewart

ALLEN W. STEWART
Geologist

RECEIVED
FEB 14

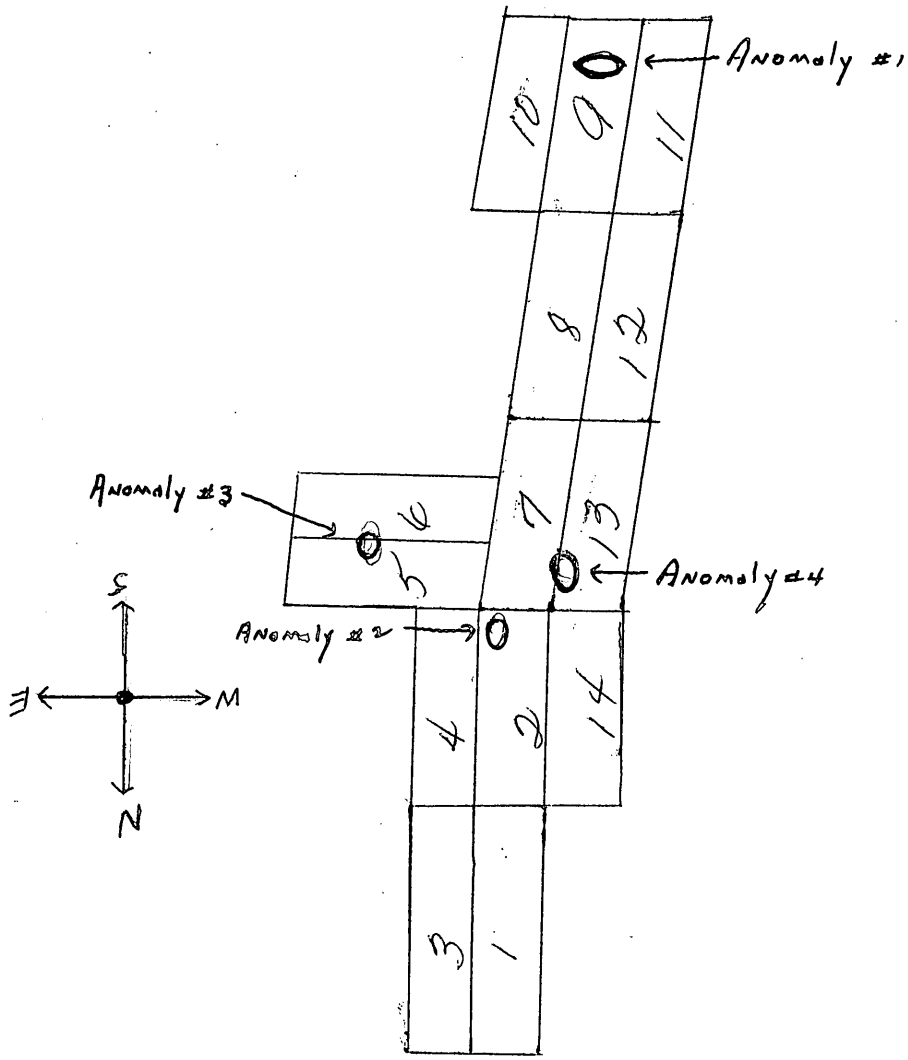
# GEOLOGIC REPORT
# ON
# SOUTHMOST MINERALS, LTD.
# URANIUM CLAIMS
# IN
# FREMONT COUNTY, COLO.

JANUARY 8, 1956

J. M. Dwight, Jr.
Geologist

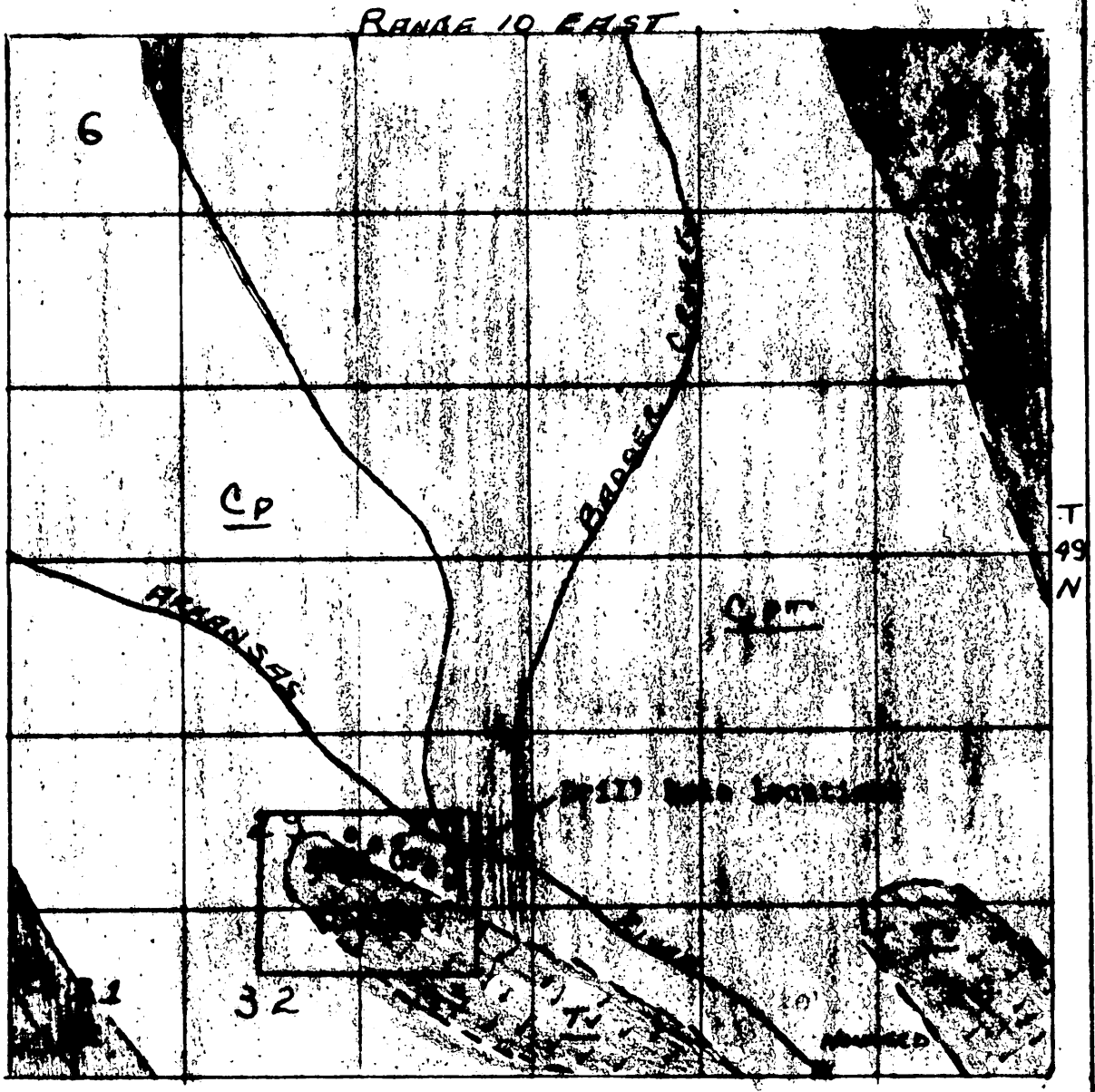
Southmost Minerals Ltd.
Map prepared by Marshall V. Clark, hand drawn, (not in scale), but correctly reflecting the numbering, and location relationship of the claims, each to the other, and the correct location of anomalies 1, 2, 3 & 4, as shown on the aerial photograph of the claims and the area.

RECEIVED
FEB 14 1956



- PERMIAN
PENNSYLVANIAN
DEVONIAN

- ORDOVICIAN
- PRE CAMBRIAN GRANITE
- TERTIARY VOLCANICS




SOUTHMOST MINERALS LTD
URANIUM CLAIMS
FREMONT COUNTY, COLORADO

SCALE 1" = 1 MILE

JMD

# GEOLOGIC REPORT ON SOUTHMOST MINERALS LIMITED URANIUM CLAIMS FREMONT COUNTY, COLO.

RECEIVED
FEB 14 1956

## INTRODUCTION:

At the request of Mr. Marshall V. Clark of 75 Ringgold Street Brownsville, Texas, the writer has made several inspections of the property evaluated in this report. The first inspection was made in July of 1955 to evaluate the uranium possibilities. The second inspection was to recommend certain exploration work by a dozer. The third inspection was to set up a core drilling program.

## REFERENCE DATA:

Description: six unpatented lode mining claims. (staked first)
eight unpatented lode mining claims.
Southmost #1 thru #14

LOCATION: Sections 28, 29, 32, & 33
Township 49 North
Range 10 East
New Mexico Principle Merridian

OWNER: Southmost Minerals Limited
75 Ringgold Street
Brownsville, Texas

## ACCESSIBILITY & PHYSIOGRAPHY:

The claims are readily accessable by automobile to the north end of the property. Access over the claims proper is by jeep. The property lies approximately nine (9) miles southeast of the town of Salida, Colorado along

U S highway 50.

The topography of the area is steep and rugged typical of mountain terrain. The area is highly dissected by stream erosion, as the Arkansas river cuts the north edge of the property. Elevations range from 7000 feet at the Arkansas river to 8000 feet at the crest of the surrounding ridges. There is abundant timber and water for mining purposes.

HISTORY:

There has been no previous development or exploration work on the property except that has been done in the last year by Southmost Minerals. There has been considerable stripping and cuts by a dozer along the outcrop showing the mineralization of uranium.

GEOLOGY:

REGIONAL

Rocks outcropping in the general area consists of precambrian igneous rocks, Mesozic sedimentary strata, and Tertiary volcanics.

The Pre-Cambrian rocks consist of granites which are intrusive and metamorphic gneiss and schist. These Precambrian rocks form the core of the Sangre de Cristo mountain Range.

Sedimentary formations of Mesozic age are composed almost entirely of undivided Pennslyvanian and Permian strata. These formations consist of layers of sand-

stone, shale and a few layers of limestone and gypsum. The sedimentary section is predomately red. The strata has been faulted and is dipping to the east.
The Tertiary volcanics consist of andesite, latite, and rhyolite flows.
Structurally the area is that of a mountain developing orogeny in which the intrusive igneous masses have tilted and faulted the sedimentary strata.

LOCAL

Rocks outcropping in the immediate area of the claims consist of undivided Pennslyvanian and Permian formations and Tertiary volcanics.
The Pennslyvanian and Permian sedimentary formations consist almost entirely of sequences of sandstones, shales, and conglomeritic sandstones. The sandstones and shales vary from a few feet to 15 feet in thickness. The color ranges from gray to red in the sandstones. The shales range from light gray to red, with a few layers of black shale.
The formations strike NW - SE and dip approximately 20 degrees to the NE. Downdip approximately 30 feet in back of the outcrop the formations dip more ranging up to 30 degrees.
The Tertiary volcanics cap the sedimentary strata on the extreme east, south, and west sides of the property.

MINERALIZATION:

The mineralization of uranium occurs in a black silty shale zone varying from a few inches to three feet in thickness. This mineralized shale bed can be traced over a horizontal distance of 2000 feet on the claims. The mineralized zone lies below a medium grained, light colored sandstone of 6 feet in thickness which grades into a reddish-brown shale. Below the zone of mineralization is a coarse grained highly calcarous sandstone. Samples taken from the mineralized black silty shale zone and assayed, range from 0.17% U308 to 0.22% U308. The approximate elevation of the mineralized outcrop is 7500 feet, where the prospect hole is located. Although the zone of mineralization ranges from 7000 feet to 8000 feet in elevation.

CONCLUSIONS:

The property has a definite showing of commerical uranium mineralization of unknown extent.

The mineralized zone may possibly thicken downdip.

The property warrants some drilling downdip to evaluate the extent of mineralization.

RECOMMENDATIONS:

That a minimum series of five (5) drill holes be drilled downdip behind the mineralized outcrop to determine the extent and value of the mineralization.

Respectfully submitted

/s/ J. M. Dwight, Jr.
J. M. Dwight, Jr.
GEOLOGIST

700

FILE COPY
Surname:
Murphy
Attendry

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

Mr. Marshall V. Clark
Southwest Minerals Ltd.
75 Ringgold Street
Brownsville, Texas

FEB - 3 1956

Re: Docket No. DMEA-4076 (Uranium)
Southwest claims Nos. 1 through 14
Fremont County, Colorado

Dear Mr. Clark:

Reference is made to our letter dated December 21, 1955, relating to the captioned docket.

Action on your application is pending receipt of the information requested in the above-mentioned letter. If you are no longer interested in the processing of this application, please advise us.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/izm 2-2-56

cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
~~Operating Committee~~
DMEA Field Team, Region III (2)
MESSRS. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

R.G.H.

Surname copy 700

Murphy
Ellis
Mettenbrink

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

Mr. Marshall V. Clark
Southwest Minerals Ltd.
75 Ringgold Street
Brownsville, Texas

DEC 21 1955

Re: Docket No. DMEA-4076 (Uranium)
Southwest claims Nos. 1 through 14
Fremont County, Colorado

Dear Mr. Clark:

The captioned application has been reviewed by the Rare and Miscellaneous Metals Division.

To enable us to further process the subject application we require a map of the claims showing the surface elevations, location of the proposed drill holes, strike and dip of the vein, and, if possible, the surface contact lines of the local rock formations. Also, show the location of the air survey anomalies, location of test pits, and assay values of samples taken from the pits.

In your application only one copy of the Reconnaissance Geological Report, and the map showing Southwest claims Nos. 1 and 2 were submitted. However, the single copy of each claim location, except Nos. 1 and 2, show all 14 of the claims. It is suggested that all the claims be shown in the above-requested map.

In order to expedite the processing of your application, please forward four (4) copies of each exhibit, namely, the geological report and the above-requested map.

Enclosed are the air photo, the sketch showing Southwest claims Nos. 1 and 2, and the 14 copies of the claim recording notices. These exhibits need not be returned. Also, we are enclosing the single copy of the geological report, so that you may have the four copies made which we require.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy/gla
12-20-55
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)
Enclosures

R.S.H.

Location Recordings
by Marshall V. Clark for Southmost Minerals, Ltd.
in Freemont County, Colorado
in T. 49 N., R. 10 E., Secs. 28, 29, 32 & 33
in Badger Creek Mining District. [redacted]

| Claims | Book No. | Page | Recording Date |
|---|---|---|---|
| Southmost No 1 | 350 | 37 | 6/10/55 |
| 2 | " | 38 | " |
| 3 | 354 | 102 | 7/25/55 |
| 4 | " | 103 | " |
| 5 | " | 104 | " |
| 6 | " | 105 | " |
| 7 | " | 106 | " |
| 8 | " | 107 | " |
| 9 | " | 108 | " |
| 10 | " | 109 | " |
| 11 | " | 110 | " |
| 12 | " | 111 | " |
| 13 | " | 112 | " |
| 14 | " | 113 | " |

Application - DMEA - 4076
Southmost Minerals, Ltd.

Note: Copied from Location Recording documents which were returned to applicant. Jayay

12/15/55 gla

IN REPLY REFER TO:

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

RECEIVED
DEC 15 1955

December 14, 1955

Re: DMEA 4076
Southmost Minerals, Ltd.
Spring Creek Group
Fremont Co., Colorado
$24,250.00 - Uranium

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in exploring by drilling between 4 radioactive anomalies located by aerial surveys. Ground work has spotted 2 outcrops from which material assaying:

| Location | Width | % $U_3O_8$ |
|---|---|---|
| Highway 50 | 16" | 0.17 Roadside |
| " + 3000' south | 36" | 0.22 (Anomaly #2) |

has been obtained. The manner of sampling is not noted.

No drill hole layout accompanies the application, but as proposed the 5,000 feet of drilling would consist of holes 200 to 600 feet deep. Judging from the aerial photograph submitted, more ground work, especially trenching, should proceed the drilling in an attempt to extend the outcrop showings.

In view of the fact that two radioactive outcrops have been located on the applicant's property, one of which falls within an 'anomalous' area, some work may be warranted.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
DEC 15 1955

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N. E. Nelson

N. E. Nelson

NENelson:iml
G-12/14/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Nosted, 3210

IN REPLY REFER TO:

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

RECEIVED
DEC 15 1955

December 14, 1955

Re: DMEA 4076
Southwest Minerals, Ltd.
Spring Creek Group
Fremont Co., Colorado
$64,250.00 - Uranium

Memorandum

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

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

Subject: Review of application.

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N. E. Nelson

N. E. Nelson

NENelson:iml
G-12/14/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

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

RECEIVED
DEC 15 1955

December 14, 1955

Re: DMEA 4075
Southwest Minerals, Ltd.
Spring Creek Group
Fremont Co., Colorado
$24,250.00 - Uranium

Memorandum

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

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

Subject: Review of application.

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NENelson:iml
G-12/14/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

12-1-55 [illegible]

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

RECEIVED
DEC - 1 1955

November 30, 1955

Memorandum

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

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

Subject: Application for assistance, DMEA Docket 4076, Southmost Minerals, Ltd., Freemont County, Colorado

I have reviewed the attached application of Southmost Minerals, Ltd., DMEA Docket 4076, dated November 22 and received in this office November 29. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The Southmost Minerals, Ltd., has applied for DMEA aid to explore for uranium on fourteen unpatented claims located in Freemont County, Colorado. The proposed project consists of 5,000 feet of core drilling, ranging in depth from 200 to 600 feet, on "the vein lines" between the known anomalies on the subject property. The total estimated cost is $24,250.00.

The applicant has not presented evidence which would indicate that mineralization is actually present on the claims. The justification of the exploration program is based on an aerial survey and ground geological survey. The results of the surveys are not available for review.

I recommend that the application be denied without prejudice insofar as the assistance requested would be for prospecting work rather than an exploration program.

Mr. Hosted would like to see a geologic report and maps regarding subject property.

John E Crawford
John E. Crawford

Attachment

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

RECEIVED
DEC - 1 1955

November 30, 1955

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Uranium Commodity Committee, Room 4445

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BUREAU OF MINES
WASHINGTON 25, D. C.

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November 30, 1955

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John E. Crawford

Attachment

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Cearyford

RECEIVED
NOV 28 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. DMEA 4076
Metal or Mineral Uranium
Date Received 11-28-55
Estimated Cost $24,250.00
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:

SEE ATTACHED STATEMENT

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

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

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

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

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

SEE ATTACHED STATEMENT

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

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

SEE ATTACHED STATEMENT

(*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

SEE ATTACHED STATEMENT

(*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

SEE ATTACHED STATEMENT

(*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.

SEE ATTACHED STATEMENT

(*c*) The work will start within ..... days and be completed within ..... 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)?

(*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 November 22, 1955.

SOUTHMOST MINERALS, LTD., Applicant,

By: Marshall V. Clark,
General Partner.

Marshall V. Clark

**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

RECEIVED
NOV 28 1955

1.

(a) Southmost Minerals, Ltd., a Limited Partnership of Brownsville, Texas.

All mail should be addressed to Marshall V. Clark, Southmost Minerals, Ltd., 75 Ringgold Street, Brownsville, Texas.

(b) Applicant is a partnership authorized under the laws of the State of Texas.

(c) Applicant is not a corporation, but is a partnership.

(d) Names and addresses of all partners in Southmost Minerals, Ltd.:

Marshall V. Clark, 75 Ringgold Street, Brownsville, Texas.

Martin E. Garcia, 1424 E. Washington Street, Brownsville, Texas.

Robert M. Reynolds, 245 Sunset Drive, Brownsville, Texas.

Oscar S. Gomez, 500 E. Levee Street, Brownsville, Texas.

Paul Y. Cunningham, 1827 Palm Boulevard, Brownsville, Texas.

D. M. Cooper, 245 Calle Jacaranda, Brownsville, Texas.

J. B. Vance, 11 Retama Drive, Brownsville, Texas.

Ray Hughston, 324 Jacaranda, Brownsville, Texas.

Mrs. Jewell Brooks, 1844 Palm Boulevard, Brownsville, Texas.

T. Gilbert Sharpe, Route 2, Box 687, Brownsville, Texas.

Joe A. Wheeler, 464 Calle Retama, Brownsville, Texas.

3.

(a) Attached hereto are fourteen "Location Certificates" of unpatented claims in public lands in Freemont County, Colorado. This is the land on which Applicant desires to further explore. The location certificates give the full, legal description of claims and land

involved. Each of said claims has been duly recorded as required by the laws of Colorado in the office of the County Recorder, Freemont County, Colorado. The claims are located on public lands belonging to the United States.

(b) The property does not have any mine name.

(c) Applicant has no ownership interest in the land.

(d) The lands are public lands belonging to the United States, on which the mining claims of Applicant have been filed as above set out.

(e) So far as known, there are no liens or encumbrances on the land.

(f) See small (a) above. The location certificates give full description, and book and page numbers of the recorded location notices.

4.

(a) Applicant started exploration on the claims involved through its General Manager, Marshall V. Clark, in May, 1954. A complete aerial survey has been made of the property, which aerial survey is attached hereto; ground geological surveys were made in connection with the aerial survey; approximately 2500 ft. of road was constructed from U. S. Highway 50 into the property. There are no mine workings or production facilities on the claims of Applicant at the present time. The land is easily accessible for examination purposes and for mining work.

(b) There is no past or current production of ore.

(c) The geologic features of the property are described in the aerial survey report made by Upex, Inc., dated July 21, 1955, which is attached hereto. Also attached is an aerial photograph of the lands and the claims in question on which has been marked in ink the four anomalies mentioned in the aerial survey and the geological report. Also included in the report are assays made on the ore.

(d) The claims are readily accessible to a good highway, railway shipping, and supplies and residence points. The claims are located nine miles East of Salida, Colorado, on U. S. Highway 50, fronting on that highway. Adjacent to the highway is the Arkansas River, and adjacent to it is the Denver and Rio Grande Railway which serves Salida. On the aerial survey photograph attached hereto, at the bottom of that photograph, can be seen portions of U. S. Highway 50, on which highway the property fronts. The road constructed

by Applicant into the property is not reflected on the map as it was constructed after the picture was taken.

(e) Man power, materials, supplies, equipment and water are all readily available, but power will have to be mobile power.

5.

(a) To explore for uranium.

(b) We desire to core drill on the vein lines between the four anomalies.

(c) The work will start as soon as weather conditions permit, and should be completed within six months.

(d) We desire to let a core drilling contract to an independent contractor, our choice being the Moab Drilling Company of Moab Utah, if satisfactory contract can be agreed upon.

6.

(a) We desire to do at least 5000 feet of core drilling; the core drilling holes will range in depth from 200 feet to 600 feet. The good, reputable core drilling companies, such as Moab Drilling Company, have a fairly standard rate of $4.00 per foot for core drilling, which includes a consulting geologist and all laboratory assay work on the cores. The costs of the proposed project will be as follows:

| | |
|---|---|
| (1) 5000 feet of core drilling at $4.00 per foot, which includes services of a consulting geologist and all laboratory assay work . . . . . | $20,000.00 |
| (2) Construction of additional roadway on property for drilling purposes, approximately 5000 feet. . . . . | 1,250.00 |
| (3) Salary of Supervisor representing Southmost Minerals, Ltd., to locate the sites for drilling, and to determine when cores should be submitted to laboratory for assay work, and to see that drilling contract is being properly fulfilled, $500.00 per month for six months . . . . . | 3,000.00 |
| TOTAL | $24,250.00 |

The equipment of Applicant consisting of power jeep, hand air drills, scintillator, and expenses in connection therewith, will be paid separately by Applicant, and are not included in the above costs.

(b) The core drilling contractor would pay all of his own labor, salaries and wages of every kind or nature necessary for the core drilling.

(c) The core drilling contractor would furnish all equipment, including his own power, water and fuel.

(d) The core drilling contractor will furnish all of the equipment.

(e) There will be no repairs or construction of any buildings, installations or fixtures.

(f) There will be no new buildings purchased, installed or constructed.

(g) The core drilling contractor will carry his own Workmen's Compensation, liability insurance, payroll taxes, etc. In other words, the contract for the core drilling will be a "turn-key" job.

(h) No contingencies are included in the above costs.

7.

(a) Yes, Applicant is prepared to furnish its share of the cost of the proposed project.

(b) Applicant will furnish its share of the costs in cash.

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 November 22, 1955.

SOUTHMOST MINERALS, LTD., Applicant,

By: Marshall V. Clark

Marshall V. Clark, General Partner.

November 29, 1955

Subject: DMEA 4076
Re: Exploration Assistance

Mr. Marshall V. Clark
Southmost Minerals Ltd.
75 Ringgold Street
Brownsville, Texas

Dear Mr. Clark:

The receipt of your application dated November 22, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 4076 and referred to the Rare & Miscellaneous Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

SHARPE, CUNNINGHAM & GARZA
ATTORNEYS AT LAW
BROWNSVILLE, TEXAS

T. GILBERT SHARPE
PAUL Y. CUNNINGHAM
REYNALDO G. GARZA
GEORGE W. STORTER
WM. A. FAULK
HECTOR YZNAGA

RECEIVED
NOV 28 1955

November 22, 1955

C. O. Mittendorf, Administrator,
Defense Minerals Exploration Administration,
U. S. Department of Interior,
Washington 25, D. C.

Re: Application of Southmost Minerals, Ltd.

Dear Sir:

Enclosed herewith on behalf of our client, Southmost Minerals, Ltd., of Brownsville, Texas, you will find an application in original quadruplicate to obtain government aid in financing the cost of exploration for uranium in Freemont County, Colorado.

Attached to such application are the following instruments, which my clients request be returned after they have served their purpose in your office.

(1) Aerial survey photograph of the area in question with identification on the back in the upper right hand corner of "Southmost Minerals, Ltd., c/o Marshall V. Clark, 75 Ringgold Street, Brownsville, Texas".

(2) Recorded graph map of claims 1 and 2, filed and recorded June 10, 1955, at 8:05 a.m., Book 350, Page 39, Office of Recorder, Freemont County, Colorado.

(3) Fourteen separate location certificates for claims Southmost 1 through Southmost 14, inclusive, all in name of Southmost Minerals, Ltd., all showing book and page of recording in the Office of the County Recorder, Freemont County, Colorado.

(4) Original aerial survey report and geological report made by Upex, Inc., dated July 21, 1955.

Other instruments or documents submitted herewith, other than those above mentioned, do not need to be returned, but we do need the return of the above instruments and documents for future purposes.

In the event the application still does not include some necessary information, it would be appreciated if you would so advise us, and it will be promptly submitted.

Yours very truly,

SHARPE, CUNNINGHAM & GARZA,

By: Paul Y. Cunningham

Paul Y. Cunningham

PYC:rhc
Encls.

MF-103
(Revised April 1952)

# UNITED STATES DEPARTMENT OF THE INTERIOR
## DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
NOV 28 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. DMEA 4076
Metal or Mineral Uranium
Date Received 11-28-55
Estimated Cost $24,250.00
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:

SEE ATTACHED STATEMENT

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

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

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

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

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

SEE ATTACHED STATEMENT

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

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

SEE ATTACHED STATEMENT

(*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

SEE ATTACHED STATEMENT

(*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

SEE ATTACHED STATEMENT

(*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.

SEE ATTACHED STATEMENT

(*c*) The work will start within ..... days and be completed within ..... 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)?

(*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 November 22, 1955.

SOUTHMOST MINERALS, LTD., Applicant,

By: Marshall V. Clark,
General Partner.

Marshall V. Clark

**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

RECEIVED
NOV 28 1955

1.

(a) Southmost Minerals, Ltd., a Limited Partnership of Brownsville, Texas.

All mail should be addressed to Marshall V. Clark, Southmost Minerals, Ltd., 75 Ringgold Street, Brownsville, Texas.

(b) Applicant is a partnership authorized under the laws of the State of Texas.

(c) Applicant is not a corporation, but is a partnership.

(d) Names and addresses of all partners in Southmost Minerals, Ltd.:

Marshall V. Clark, 75 Ringgold Street, Brownsville, Texas.

Martin E. Garcia, 1424 E. Washington Street, Brownsville, Texas.

Robert M. Reynolds, 245 Sunset Drive, Brownsville, Texas.

Oscar S. Gomez, 500 E. Levee Street, Brownsville, Texas.

Paul Y. Cunningham, 1827 Palm Boulevard, Brownsville, Texas.

D. M. Cooper, 245 Calle Jacaranda, Brownsville, Texas.

J. B. Vance, 11 Retama Drive, Brownsville, Texas.

Ray Hughston, 324 Jacaranda, Brownsville, Texas.

Mrs. Jewell Brooks, 1844 Palm Boulevard, Brownsville, Texas.

T. Gilbert Sharpe, Route 2, Box 687, Brownsville, Texas.

Joe A. Wheeler, 464 Calle Retama, Brownsville, Texas.

3.

(a) Attached hereto are fourteen "Location Certificates" of unpatented claims in public lands in Fremont County, Colorado. This is the land on which Applicant desires to further explore. The location certificates give the full, legal description of claims and land

involved. Each of said claims has been duly recorded as required by the laws of Colorado in the office of the County Recorder, Freemont County, Colorado. The claims are located on public lands belonging to the United States.

(b) The property does not have any mine name.

(c) Applicant has no ownership interest in the land.

(d) The lands are public lands belonging to the United States, on which the mining claims of Applicant have been filed as above set out.

(e) So far as known, there are no liens or encumbrances on the land.

(f) See small (a) above. The location certificates give full description, and book and page numbers of the recorded location notices.

4.

(a) Applicant started exploration on the claims involved through its General Manager, Marshall V. Clark, in May, 1954. A complete aerial survey has been made of the property, which aerial survey is attached hereto; ground geological surveys were made in connection with the aerial survey; approximately 2500 ft. of road was constructed from U. S. Highway 50 into the property. There are no mine workings or production facilities on the claims of Applicant at the present time. The land is easily accessible for examination purposes and for mining work.

(b) There is no past or current production of ore.

(c) The geologic features of the property are described in the aerial survey report made by Upex,Inc., dated July 21, 1955, which is attached hereto. Also attached is an aerial photograph of the lands and the claims in question on which has been marked in ink the four anomalies mentioned in the aerial survey and the geological report. Also included in the report are assays made on the ore.

(d) The claims are readily accessible to a good highway, railway shipping, and supplies and residence points. The claims are located nine miles East of Salida, Colorado, on U. S. Highway 50, fronting on that highway. Adjacent to the highway is the Arkansas River, and adjacent to it is the Denver and Rio Grande Railway which serves Salida. On the aerial survey photograph attached hereto, at the bottom of that photograph, can be seen portions of U. S. Highway 50, on which highway the property fronts. The road constructed

by Applicant into the property is not reflected on the map as it was constructed after the picture was taken.

(e) Man power, materials, supplies, equipment and water are all readily available, but power will have to be mobile power.

5.

(a) To explore for uranium.

(b) We desire to core drill on the vein lines between the four anomalies.

(c) The work will start as soon as weather conditions permit, and should be completed within six months.

(d) We desire to let a core drilling contract to an independent contractor, our choice being the Moab Drilling Company of Moab Utah, if satisfactory contract can be agreed upon.

6.

(a) We desire to do at least 5000 feet of core drilling; the core drilling holes will range in depth from 200 feet to 600 feet. The good, reputable core drilling companies, such as Moab Drilling Company, have a fairly standard rate of $4.00 per foot for core drilling, which includes a consulting geologist and all laboratory assay work on the cores. The costs of the proposed project will be as follows:

| | |
|---|---|
| (1) 5000 feet of core drilling at $4.00 per foot, which includes services of a consulting geologist and all laboratory assay work . . . . . | $20,000.00 |
| (2) Construction of additional roadway on property for drilling purposes, approximately 5000 feet. . . . . | 1,250.00 |
| (3) Salary of Supervisor representing Southmost Minerals, Ltd., to locate the sites for drilling, and to determine when cores should be submitted to laboratory for assay work, and to see that drilling contract is being properly fulfilled, $500.00 per month for six months . . . . . | 3,000.00 |
| TOTAL | $24,250.00 |

The equipment of Applicant consisting of power jeep, hand air drills, scintillator, and expenses in connection therewith, will be paid separately by Applicant, and are not included in the above costs.

(b) The core drilling contractor would pay all of his own labor, salaries and wages of every kind or nature necessary for the core drilling.

(c) The core drilling contractor would furnish all equipment, including his own power, water and fuel.

(d) The core drilling contractor will furnish all of the equipment.

(e) There will be no repairs or construction of any buildings, installations or fixtures.

(f) There will be no new buildings purchased, installed or constructed.

(g) The core drilling contractor will carry his own Workmen's Compensation, liability insurance, payroll taxes, etc. In other words, the contract for the core drilling will be a "turn-key" job.

(h) No contingencies are included in the above costs.

7.

(a) Yes, Applicant is prepared to furnish its share of the cost of the proposed project.

(b) Applicant will furnish its share of the costs in cash.

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 November 22, 1955.

SOUTHMOST MINERALS, LTD., Applicant,

By: Marshall V. Clark

Marshall V. Clark, General Partner.

# GEOLOGIC REPORT

# ON

# SOUTHMOST MINERALS LTD.

# URANIUM CLAIMS

# IN

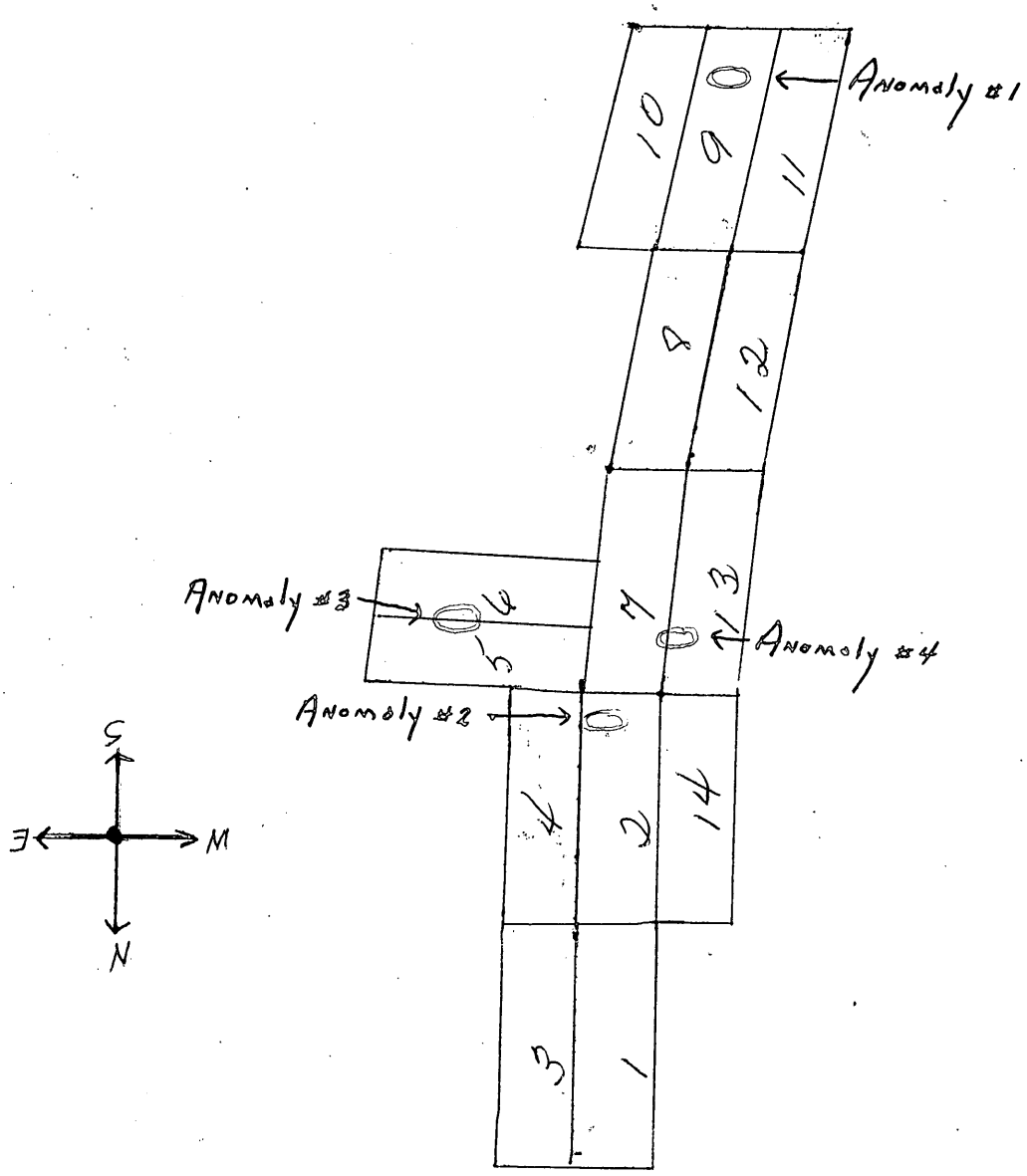
# FREMONT COUNTY, COLO.

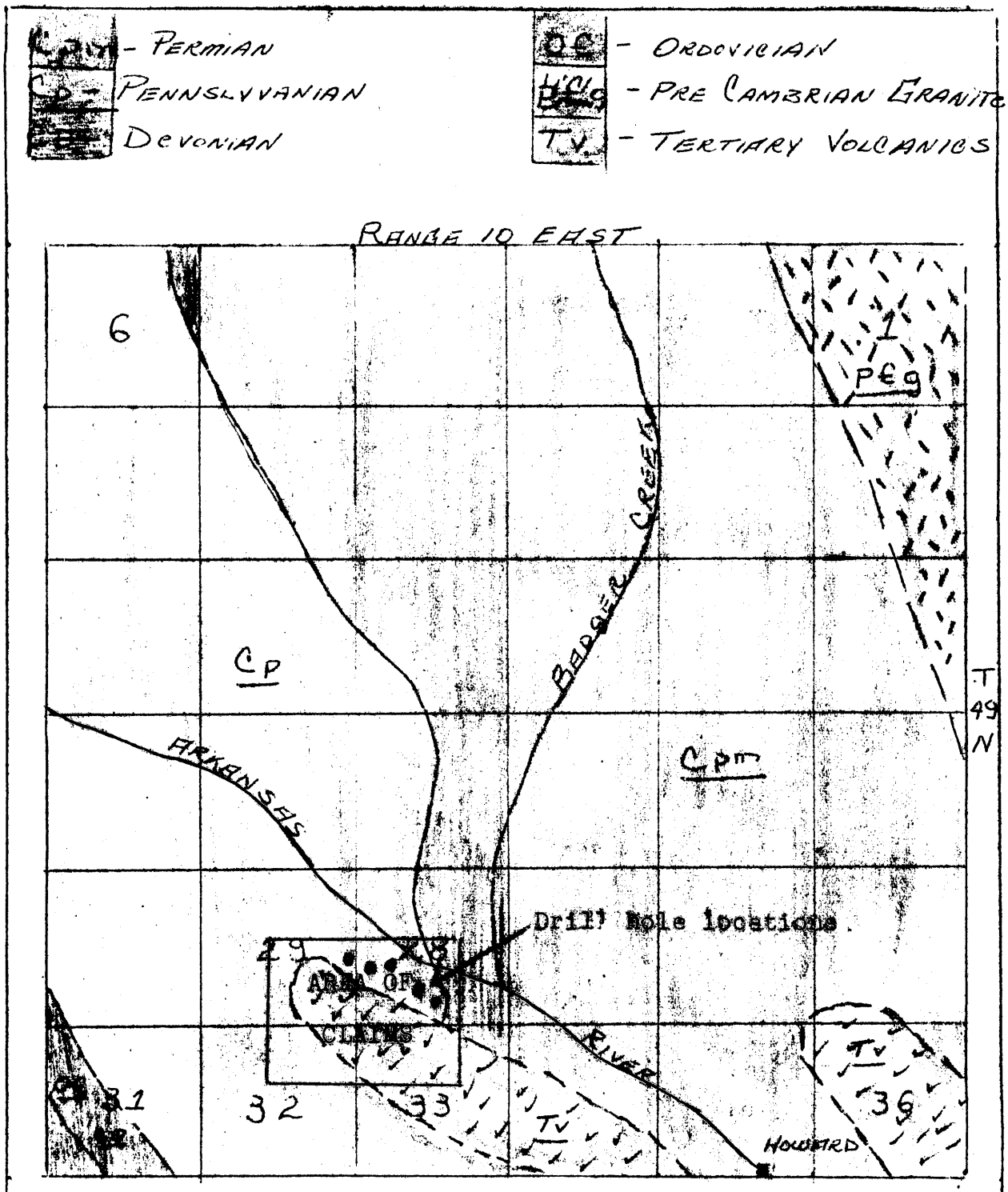
JANUARY 8, 1956

J. M. Dwight, Jr.
Geologist

Southmost Minerals Ltd.
Map prepared by Marshall V. Clark, hand drawn, (not in scale), but correctly reflecting the numbering, and location relationship of the claims, each to the other, and the correct location of anomalies 1, 2, 3, & 4, as shown on the aerial photograph of the claims and the area.

RECEIVED
FEB 14 1956






SOUTHMOST MINERALS LTD
URANIUM CLAIMS
FREMONT COUNTY, COLORADO

SCALE 1" = 1 MILE

JMD

# GEOLOGIC REPORT ON SOUTHMOST MINERALS LIMITED URANIUM CLAIMS FREMONT COUNTY, COLO.

## INTRODUCTION:

At the request of Mr. Marshall V. Clark of 75 Ringgold street Brownsville, Texas, the writer has made several inspections of the property evaluated in this report. The first inspection was made in July of 1955 to evaluate the uranium possibilities. The second inspection was to recommend certain exploration work by a dozer. The third inspection was to set up a core drilling program.

## REFERENCE DATA:

Descripition: six unpatented lode mining claims. (staked first)
eight unpatented lode mining claims.
Southmost #1 thru #14

LOCATION: Sections 28, 29, 32, & 33
Township 49 North
Range 10 East
New Mexico Principle Merridian

OWNER: Southmost Minerals Limited
75 Ringgold Street
Brownsville, Texas

## ACCESSIBILITY & PHYSIOGRAPHY:

The claims are readily accessable by automobile to the north end of the property. Access over the claims proper is by jeep. The property lies approximately nine (9) miles southeast of the town of Salida, Colorado along

U S highway 50.

The topography of the area is steep and rugged typical of mountain terrain. The area is highly disected by stream erosion, as the Arkansas river cuts the north edge of the property. Elevations range from 7000 feet at the Arkansas river to 8000 feet at the crest of the surrounding ridges. There is abundant timber and water for mining purposes.

HISTORY:

There has been no previous development or exploration work on the property except that has been done in the last year by Southmost Minerals. There has been considerable stripping and cuts by a dozer along the outcrop showing the mineralization of uranium.

GEOLOGY:

REGIONAL

Rocks outcropping in the general area consists of precambrian igneous rocks, Mesozic sedimentary strata, and Tertiary volcanics.

The Pre-Cambrian rocks consist of granites which are intrusive and metamorphic gneiss and schist. These Pre-Cambrian rocks form the core of the Sangre De Cristo mountain range.

Sedimentary formations of Mesozic age are composed almost entirely of undivided Pennslyvanian and Permian strata. These formations consist of layers of sand-

stone, shale and a few layers of limestone and gypsum The sedimentary section is prodiomately red. The strata has been faulted and is dipping to the east.
The Tertiary volcanics consist of andesite, latite, and rhyolite flows.
Structurally the area is that of a mountain developing orogeny in which the intrusive igneous masses have tilted and faulted the sedimentary strata.

LOCAL

Rocks outcropping in the immediate area of the claims consist of undivided Pennslyvanian and Permian formations and Tertiary volcanics.
The Pennslyvanian and Permian sedimentary formations consist almost entirely of sequences of sandstones, shales, and conglomeritic sandstones. The sandstones and shales vary from a few feet to 15 feet in thickness. The color ranges from gray to red in the sandstones. The shales range from light gray to red, with a few layers of black shale.
The formations strike NW - SE and dip approximately 20 degrees to the NE. Downdip approximately 30 feet in back of the outcrop the formations dip more ranging up to 30 degrees.
The Tertiary volcanics cap the sedimentary strata on the extreme east, south, and west sides of the property.

MINERALIZATION:

The mineralization of uranium occurs in a black silty shale zone varying from a few inches to three feet in thickness. This mineralized shale bed can be traced over a horizontal distance of 2000 feet on the claims. The mineralized zone lies below a medium grained, light colored sandstone of 6 feet in thickness which grades into a reddish - brown shale. Below the zone of mineralization is a coarse grained highly calcarous sandstone. Samples taken from the mineralized black silty shale zone and assayed, range from 0.17% U308 to 0.22% U308. The approximate elevation of the mineralized outcrop is 7500 feet, where the prospect hole is located. Although the zone of mineralization ranges from 7000 feet to 8000 feet in elevation.

CONCLUSIONS:

The property has a definite showing of commerical uranium mineralization of unknown extent.

The mineralized zone may possibly thicken downdip.

The property warrants some drilling downdip to evaluate the extent of mineralization

RECOMMENDATIONS:

That a minimum series of five (5) drill holes be drilled downdip behind the mineralized outcrop to determine the extent and value of the mineralization.

Respectfully submitted

J. M. Dwight, Jr.

J. M. Dwight, Jr.
GEOLOGIST

SPOKANE, WASH.
NOV 8 8 PM
1955

Contract Administration and Audit Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D.C.