DMEA-2830
Fluorspar
Region IV ✓

FLUORSPAR PRODUCTION CO., PHOENIX, ARIZONA. Muskhog Fluorspar Mine, Maricopa County, Arizona.

Preliminary engineering report. Field advised that the property would be visited again and that it felt the applicant should do additional work before applying for Government aid. The Field is placing the report in the inactive file until applicant advises that further consideration should be given. Report referred to the Commodity Group. 2-9-53

5-8-53
DMEA-2830
Fluorspar ✓
Region IV

FLUORSPAR PRODUCTION CO., PHOENIX, ARIZONA. Muskhog Fluorspar Mine, Maricopa County, Arizona.

Field Report and Denial. The report was referred to the Commodity Group.

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

224 New Customhouse
Denver 2, Colorado

April 27, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2830 (Fluorspar), Mushbog Fluorspar Claims, Maricopa County, Arizona.

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

W. H. King
W. H. King

Ogden Tweto
for A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

5-8-53
(date)

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

COPY

224 New Customhouse
Denver 2, Colorado

April 28, 1953.

Fluorspar Production Company
7240 Canyon Drive West
Phoenix, Arizona

Re: Docket DMEA-2830

Gentlemen:

Reference is made to your application for Government aid on the Muskhog Fluorspar Claims.

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

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

Very truly yours,

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

/s/ Ogden Tweto for
A. H. Koschmann
Field Team, Region IV

HMC:cwm
cc: Administrator, DMEA
WRStorms
RFRobinson
AHKoschmann (2)
Subject
Chron.

Reviewed by
DMEA OPERATIONS COMMITTEE

5-8-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

April 28, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2830 (Fluorspar), Muskhog Fluorspar Claims, Maricopa County, Arizona.

Enclosed are nine copies of the final engineering report on the subject docket.

The applicant proposed to sink a 50 feet vertical shaft on the vein near the bottom of a small arroyo at an estimated cost of $5,200.00.

Evidence found by the field examiners indicates that the possibility of discovery of a significant amount of fluorspar is improbable and they therefore recommend that the application be denied.

We concur in this recommendation.

W. H. King
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
5-8-53
(date)

[illegible]

April [illegible], 1953

Memorandum

To : [illegible] Chief, Mining Division, Region [illegible]

From : Chief, Mining Methods Section, Mining Div., Region [illegible]

Subject : Final Report, Docket [illegible]-2830, Muskhog Fluorspar Claims, Sunflower Mining District, Maricopa County, Ariz.

Enclosed are original and [illegible] copies of the section on Summary, Conclusions and Recommendations by John [illegible] Faick of the Geological Survey and Robt. W. Ageton of the Bureau of Mines, and the section on Engineering by Ageton. A separate section on Geology will be submitted by the Geological Survey.

Because the chances of making a worthwhile discovery seem small, the examiners recommend that an exploration loan be denied. I concur with their recommendations.

Brochure is enclosed.

Walter R. Storms

Walter R. Storms

cc: [illegible] Kingery (3)
A. F. Shride
[illegible]-2830
DF

WRStorms:als

Reviewed by
DMEA OPERATING COMMITTEE
5-8-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

April 24, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2830, Muskhog Fluorspar Mine, Maricopa County, Arizona. Evans and Choisser, applicants.

Enclosed are the original and 8 copies of the revised geological report by John N. Falck of the U. S. Geological Survey covering the above docket.

It is recommended that the loan be denied.

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

Reviewed by
DMEA OPERATING COMMITTEE
5-8-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 4126, University Station
Tucson 5, Arizona

April 22, 1953

Memorandum

To: A. H. Koschmann, Denver, Colorado

From: Raymond F. Robinson, Tucson, Arizona

Subject: Final Report, DMEA 2830, Muskhog Fluorspar Mine (Evans and Choisser)

Enclosed are the original and eight copies of the revised report on the Muskhog Fluorspar Mine, DMEA 2830, by John N. Faick of the U. S. Geological Survey.

It is recommended that the loan be denied because the applicant's proposal cannot be justified from the present exposures. This report and its recommendations have my approval.

Raymond F. Robinson
Acting District Supervisor
Arizona-New Mexico

Enclosures 9

Reviewed by
DMEA [illegible]

5-8-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMEA-2330, Muskhog Fluorspar Claims

Fluorspar Production Co.

Sunflower Mining District

Maricopa County, Ariz.

John N. Faick, Geologist
U. S. Geological Survey

Robt. W. Ageton, Mining Engineer
U. S. Bureau of Mines

April 1953

Reviewed by
DMEA OPERATING COMMITTEE
5-9-53
(date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By John H. Faick[1] and R. W. Ageton[2]

Under date of December 23, 1952, the DMEA Field Team, Region IV, requested a field examination of the Auskhog fluorspar mine in Maricopa County, Ariz., docketed as DMEA-2830. The applicant, the Fluorspar Production Co., 7240 Canyon Drive West, Phoenix, Ariz., had requested assistance from the Government under the Defense Production Act of 1950, as amended, to do exploration work estimated to cost $5,200.00. On January 13, 1953, John H. Faick and R. W. Ageton visited the property and examined the surface exposures.

The property consists of 3 contiguous unpatented mining claims situated about 53 miles northeast of Mesa, Ariz., the nearest railroad and supply point. The claims were located in the Sunflower Mining District, Maricopa County, Ariz., by Irl Conway and Ed Conway in 1950. So far as is known there has been no production of any mineral in the area closely adjacent to these claims.

Fluorite is deposited in a relatively narrow fissure in granitic rock. The strike of the vein is about N. 30° to 35° W. It dips irregularly to the southwest. Surface debris has obscured the vein so the total strike length exposed is only about 25 feet. Fluorite float or other evidence of mineralization could not be found by a search of the surrounding area for the extension of the vein. Results of sampling indicate that the vein has an average width of about 3.0 feet and a grade ranging from 45 to 55 percent CaF_2 where exposed.

1/ Geologist, U. S. Geological Survey
2/ Mining Engineer, U. S. Bureau of Mines

A discovery shaft which fulfills the minimum requirements for a mining location, and a small prospect pit [illegible] feet northwest along the strike of the vein comprise the work performed by the locators and the applicant. Southeast across the wash from the discovery shaft an adit was driven into barren granite prior to the discovery of fluorite. There is no mining or milling equipment, or facilities of any kind on the property.

The applicant proposed to sink a 50-foot vertical shaft on the vein near the bottom of a small arroyo at an estimated cost of $5,200.00.

The fluorspar vein is narrow, the strike length as exposed is short, and field evidence indicates that the possibility of discovery of significant reserves of fluorite is improbable.

The examiners believe that the Muskhog Fluorspar deposit does not contain significant reserves of fluorite. Therefore, it is recommended that the application for an exploration loan be denied.

MUSKEGO FLUORSPAR MINE
D.P.EVANS AND JACK CHOISSER, APPLICANTS
MARICOPA COUNTY, ARIZONA
DMRA 2830

Geology

By
John H. Faick
Geologist, U. S. Geological Survey

Reviewed by
DMRA OPERATIONS COMMITTEE
5-8-53
(date)

MUSKHOG FLUORSPAR MINE
D.P.EVANS AND JACK CHOISSER, APPLICANTS
MARICOPA COUNTY, ARIZONA
DMRA 2830

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Fig. 1 Location Map — See Engineering Report

INTRODUCTION

The Muskhog prospect was examined January 13, 1953 by R. W. Ageton, mining engineer, U. S. Bureau of Mines, and J. H. Faick, geologist, U. S. Geological Survey, on behalf of the Defense Minerals Exploration Administration, to which application has been made for assistance in exploration by Mr. Darrel P. Evans, 1240 Canyon Drive, West Phoenix, Arizona.

The property consists of 3 unpatented claims, upon which only a small amount of prospecting has been done. This property is accessible by a crude road which leaves the Bush Highway about 6 miles south of Sunflower, Arizona (Fig. 1). The road follows Sycamore Creek for a distance of 0.9 miles, then turns westward along Brush Corral Wash for a distance of 3.4 miles to the prospect.

GEOLOGY

The Muskhog fluorspar prospect is situated near the east base of Granite Mountain, which is shown on the Cave Creek quadrangle. The fluorite deposit is a relatively narrow, steeply dipping fissure veins which strikes about N. 30-35° W. and dips irregularly to the southwest.

The fluorite vein is exposed in a discovery shaft about 8 feet deep and by a shallow pit about 8 feet north of the discovery shaft, the total exposed strike length of the deposit is about 25 feet.

The area extending about 100 feet southeast from the discovery cut is covered by debris in a small arroyo and no trace of the vein could be found in it. On the southeast side of the arroyo, about 125 feet from the discovery cut, an old trench, now almost completely filled, had been dug across the possible extension of the vein zone. About 150 feet south east of the trench an adit about 25 feet long had been driven into granite.

No fluorite was found by these prospects and it is therefore thought by the examiners that the fluorite vein pinches out beneath the arroyo, probably less than 100 feet from the discovery cut.

The vein has a maximum width of about 5 feet in the discovery cut, but in the pit about 8 feet north of it, the vein has a width of only about 1½ feet. This suggests that the vein may pinch out a few feet northwest of the prospect pits. In the area extending 300 to 400 feet northwest of the prospect pits, and along the strike of the vein, fluorite float or other evidence of mineralization could not be found. Although this area is covered by brush and a thin mantle of disintegrated granite, the examiners are of the opinion that some evidence of the fluorite vein could be found if it extended into the area.

As fluorite float or other evidence of mineralization was not found by a search of the area adjacent to the discovery cut, the examiners believe the deposit is not very much larger than is indicated by the present prospect pits. As presently exposed the fluorspar vein is narrow, and the strike length is short; therefore, it seems improbable that significant reserves of fluorite will be discovered in the deposit.

The results of 4 samples of the ore exposed in the prospect pits are as follows:

Description	Width in Ft.	% CaF_2
S. Wall of discovery shaft	2.7	63.7
N. Wall of discovery shaft, west part of face	1.2	90.0
N. Wall of discovery shaft, east part of face	3.9	30.8
Small pit, 8 feet NW of discovery shaft, north wall	1.5	67.3

Results of sampling indicate that the vein where exposed, has an average width of about 3 feet and a grade ranging from 45 to 55 percent CaF_2. Possibly about one-third of the ore available could be hand-sorted and shipped as metallurgical grade fluorspar, the remainder is apparently suitable for milling. The exposures of the deposit are very small, therefore no effort was made to calculate the available ore reserves.

CONCLUSIONS AND RECOMMENDATIONS

The exposed part of the Muskhog fluorite vein is relatively narrow and has a short strike length, and field evidence failed to reveal extensions of the vein into adjacent areas, therefore the examiners believe the deposit is too small to contain significant quantities of fluorspar. The possibility of the discovery of significant reserves of fluorite at the Muskhog Fluorspar claims is so improbable that it is believed that Government participation in an exploration program is not warranted; therefore it is recommended that the application be denied.

DMEA-2830, MUSKIN FLUORSPAR CLAIMS
FLUORSPAR PRODUCTION CO.
SUPERIOR MINING DISTRICT
MARICOPA COUNTY, ARIZ.

Engineering Report

By R. W. Ageton
Mining Engineer
U. S. Bureau of Mines

April 1953

DEA-2830, MUSKEL FLUORSPAR CLAIMS
FLUORSPAR PRODUCTION CO.
SUNFLOWER MINING DISTRICT
MARICOPA COUNTY, ARIZ.

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ILLUSTRATIONS

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INTRODUCTION

Under date of December 23, 1952, the DMEA Field Team, Region IV, requested a field examination of the Muskhog fluorspar mine in Maricopa County, Ariz., docketed as DMEA-2430. The applicant, the Fluorspar Production Co., 7240 Canyon Drive West, Phoenix, Ariz., had requested assistance from the Government under the Defense Production Act of 1950, as amended, to do exploration work estimated to cost $5,200.00. The applicant proposed to sink a vertical shaft to a depth of 50 feet, with no request for funds to do any drifting or crosscutting. On January 13, 1952, K. W. Apeton[1/] and John M. Faick[2/] visited the property and examined the surface exposures.

ACKNOWLEDGMENTS

Acknowledgment is made to D. F. Evans, one of the partners, who met the examiners at Mesa, Ariz. and accompanied them to the property.

LOCATION, TOPOGRAPHY AND CLIMATE

The Muskhog fluorspar claims are situated about 53 miles northeast of Mesa, Ariz., the nearest railroad and supply point (figure 1). The route to the prospect is easterly along paved U. S. Highway 60 - 70 for 9.4 miles to the junction with the gravel road, named the Bush Highway. This gravel road is followed in a northerly direction for a distance of 39.4 miles to a turn-off to the west. From this turnoff the applicant has built a pioneer road with a TD-6 bulldozer. At 0.1 mile from the Bush Highway, the road crosses Sycamore Creek and follows the creek bed for a distance of 0.9 mile to the Bush Corral Wash. The wash then is followed for a distance of 3.4 miles to the property.

1/ Mining Engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

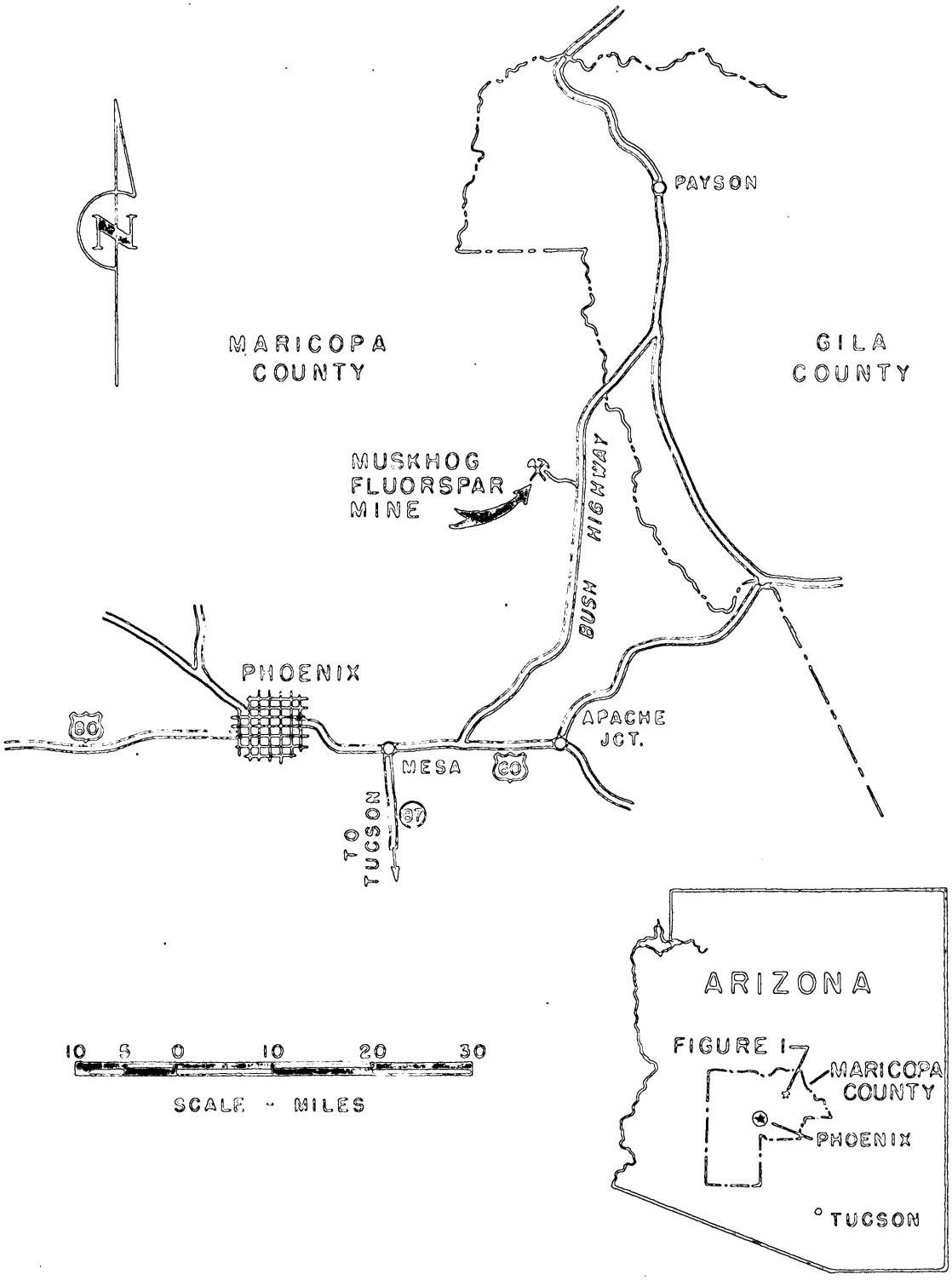

FIGURE 1. - LOCATION MAP, MUSKHOG FLUORSPAR MINE
DMEA 2830
SUNFLOWER MINING DISTRICT, MARICOPA COUNTY, ARIZONA

The area is characterized by moderate relief, altitudes ranging from 3,000 to 3,500 feet above sea level, some sections being at an altitude of about 4,000 feet. The climate of the area is typical of the southwest. However, extremely high temperatures would not persist for long periods of time. The vegetation consists of mesquite, cat's claw, greasewood, and many varieties of cacti, including cholla and prickly pear.

HISTORY AND PRODUCTION

The 3 unpatented mining claims, the Muskhog, Muskhog No. 2, and Muskhog No. 3 were located in the Sunflower Mining District, Maricopa County, Ariz., by Irl Conway and Ed Conway in 1950.

According to the applicant there had been some activity in gold placering in the area in past years. So far as is known there has been no production of any mineral within close proximity to these claims.

OWNERSHIP AND EXTENT

The Fluorspar Production Co., a partnership consisting of Darrel P. Evans and Jack Choisser, has a lease and option to purchase for $20,000.00, 3 contiguous unpatented mining claims located by Irl Conway and Ed Conway. They are recorded in the office of the County Recorder of Maricopa County, Ariz., as follows:

Name	Docket	Page
Muskhog	710	430
Muskhog No. 2	771	194
Muskhog No. 3	771	195

The terms of the agreement provide for a payment of $5,000.00 to Irl Conway and Ed Conway from 5 percent of the net smelter returns.

The balance is to be paid at the rate of 10 percent of the net smelter returns. This is subject to the payment of $5,000.00 to George C. Cline who holds an unrecorded interest in the property. The payment to Cline is to be made from 5 percent of the net smelter returns, and the $5,000.00 is to be a part of the original purchase price.

DESCRIPTION OF DEPOSIT

Fluorite is deposited in a relatively narrow, rather steeply dipping fissure in a granitic rock. The strike of the vein is about N. 30° to 35° W. The dip is irregularly to the southwest. Surface debris has obscured the vein so the total strike length exposed is only about 25 feet, its full extent being unknown.

The examiners sampled the exposure in the discovery shaft and the small prospect pit. The sampling results are as follows:

Sample	Sample Width	Percent CaF_2
S. Wall of discovery shaft	2.7 ft.	63.7
N. Wall of discovery shaft	1.2 ft.	90.0
N. wall of discovery shaft, E. part of face	3.9 ft.	30.8
Small pit 3 ft. NW along strike of vein from discovery shaft, Northwall	1.5 ft.	67.3

Results of sampling indicate that the vein has an average width of about 3.0 feet and a grade ranging from 45 to 55 percent CaF_2. Possibly some of the material could be hand sorted and shipped as metallurgical spar.

ORE RESERVES

The deposit appears to be too small to justify an estimation of ore reserves.

PRESENT STATUS, EXPLORATION AND DEVELOPMENT

The locators sank a discovery shaft, 5 feet by 6 feet in cross-section by 6 feet deep on the Muskhog No. 2 Claim. Approximately 8 feet north of this shaft along the strike of the vein a smaller pit was dug. According to the applicant the other two claims have no apparent work on them.

The applicant has made no additional effort to further expose the outcrop which seems to be covered by a mantel of weathered granite. Some funds were expended, however, on a pioneer road to the property. The present condition of this road is such that it would not serve for haulage of supplies for an exploration project.

Southeast across the wash from the discovery shaft of the Muskhog No. 2 Claim there is an adit, 4 feet by 6 feet by approximately 30 feet long, driven into barren granite prior to the time fluorite was discovered. The adit was not driven along the strike of the fluorite vein nor did it intersect the vein.

There is no mining or milling equipment or facilities of any kind on the property.

PROPOSED EXPLORATION AND DEVELOPMENT

Applicant proposes to sink a 50 foot vertical shaft on the vein near the bottom of a small draw, the work to be completed within 2 months after the start of operations. The estimated cost as submitted is as follows:

Labor: 3 men (including J.P. Evans, one of the partners)	$2,500.00
Road work	700.00
Rent on compressor and hoist for 2 months	450.00
Rent on hammer and hose for 2 months	150.00
Timber	250.00
Oil, gas for equipment (2 months)	150.00
Hauling equipment to mine and return	100.00
Powder, fuse and caps	250.00
Tools and steel	200.00
Rent to house men	250.00
Miscellaneous	200.00
Total	$5,200.00

PROPOSED FINANCING

The applicant proposes to furnish its share, or 50 percent of the cost, by money payments.

CONCLUSIONS

1. Fluorite is deposited in a relatively narrow, rather steeply dipping fissure in a granitic rock.

2. Results of sampling indicate that the vein has an average width of about 3.0 feet and a grade ranging from 45 to 55 percent CaF_2. Total known strike length of the vein is about 25 feet.

3. The fluorspar vein is narrow, the strike length as exposed is short, and field evidence indicates that the possibility of discovery of significant reserves is improbable. Therefore, it is believed that Government participation in an exploration program is not warranted.

RECOMMENDATIONS

- It is recommended that the application for an exploration loan be denied.

Mr. . H. King
Executive Officer, DMEA
Field Team, Region IV
Bureau of Mines
224 New Customhouse Bldg.
Denver 2, Colorado

Subject: Docket No. DMEA-2330 - Fluorspar
Muskhog Fluorspar Mine
Maricopa County, Arizona

FEB 6 1959

Dear Mr. King:

Reference is made to the subject application for exploration assistance, DMEA-2330, Muskhog Fluorspar Mine, Maricopa County, Arizona, and the memorandum report on January 2?, 1959, from W. R. Ageton of the Bureau of Mines.

The last paragraph on page two of the memorandum report indicates that the writer does not fully comprehend the DMEA program for exploration assistance. It seems that the work the field team suggested the operator perform in the hope of qualifying for DMEA assistance is properly exploration and should be performed under a DMEA contract. It is not thought by this Committee that the bulldozing to further explore the outcrop can be classed as prospecting. It is, therefore, necessary that you supply this office with a copy of the work outline, if it is recommended for a contract, or a denial if it does not justify the work, on the basis of your field examination.

It is just such prospects as these in a new area that offer good exploration bets. Kindly pass this information on to your field engineers and geologists so that this misconception does not persist.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

LGHouk:gad 2/6/53
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. H. W. Davis, 3519
Mr. Van Alstine, G-232 GSA Bldg.
Mr. Houk

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

Department of the Interior
Defense Minerals Administration
Denver

224 New Customhouse
Denver 2, Colorado

January 27, 1953

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2830, Muskhog Fluorspar Mine

Enclosed are four copies of a preliminary engineering report covering Docket DMEA 2830. This will be placed in our inactive file until such time as the operator notifies our Tucson office that he believes further consideration should be given to the property. At that time a complete report will be submitted.

W. H. King

W. H. King

Enclosures

Reviewed by
DMEA Contract Committee
2-9-53
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 30 1953

MINING DIVISION
REGION IV

January 23, 1953

Memorandum

To : W. H. King, Chief, Mining Division, Region IV

From : Chief, Mining Methods Br., Min. Div., Region IV

Subject : Memo Report, Docket DMEA-2830, Muskhog Fluorspar Mine, Maricopa County, Ariz.

Enclosed are original and 8 copies of a short memorandum report on the above property by R. W. Ageton of the Bureau of Mines.

After the applicants have uncovered the vein by several more pits or trenches, the examiners plan to revisit this property. A more detailed report then will be submitted.

Walter R. Storms

Walter R. Storms

cc: W. H. King (8)
A. P. Shride
DMEA-2830
DF

WRStorms:als

Reviewed by
DMEA OPERATING COMMITTEE

2-9-53
(date)

MINING DIVISION
REGION IV

January 23, 1953

Memorandum

To : Walter H. Storms, Chief, Mining Methods Branch, Mining Division, Region IV

From : R. W. Ageton, Mining Engineer, Tucson, Arizona

Subject : Memorandum Report, DMA-2830, Muskhog Fluorspar Mine, Maricopa County, Ariz.

On January 13, 1953, R. W. Ageton 1/ and John R. Faick 2/, examined the Muskhog fluorspar property. They were accompanied by the General Manager, D. P. Evans, 7240 Canyon Dr. West Phoenix, Ariz.

The Muskhog fluorspar claims are situated about 53 miles northeast of Mesa, Ariz., the nearest railroad and supply point. The route to the prospect is easterly along paved highway U. S. 60-70 for 9.4 miles to the junction with the gravel road named the Bush Highway. This gravel road is followed in a northerly direction for a distance of 39.4 miles to a turn-off to the west. This turn-off is approximately 6 miles south of Sunflower, Ariz. From this turn-off, the applicant has built a pioneer road with a TD 6 bulldozer. At 0.1 mile from the Bush Highway the road crosses Sycamore Creek and follows the creek bed for a distance of 0.9 mile to the Brush Corral wash. The wash then is followed for a distance of 3.4 miles to the property.

The property consists of 3 unpatented mining claims, located in the Sunflower Mining District, Maricopa County, Ariz. by Irl Conway

1/ Mining Engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

and Ed Conway in 1950. The applicant, a partnership, controls the claims under lease and option to purchase.

The locators sank a discovery shaft, 5 feet by 6 feet by 8 feet deep on the Muskhog No. 2 claim. Approximately 8 feet northwest along the strike of the vein a smaller pit was dug. According to the applicant the other two claims have no apparent work done on them.

Fluorite is exposed in the discovery shaft and the small prospect pit as a steeply dipping vein in a weathered granite. The strike of the vein is about N. 30° to 35° W. Sampling results are as follows:

Sample	Sample Width	Percent CaF_2
S. wall of discovery shaft	2.7 ft.	63.7
N. wall of discovery shaft	1.2 ft.	90.0
N. wall of discovery shaft, a part of face	3.9 ft.	30.8
Small pit 8 ft. NW along strike of the vein from discovery shaft, North wall	1.5 ft.	67.3

The examiners attempted to trace the vein along the strike but it was obscured by surface debris. Inspection of arroyos for vein exposure or float was made but without discovery. Total strike length of vein exposed is about 25 feet.

Evans has had considerable mining experience and he recently operated the Union Mine, lately known as the Jumbo Mine, a fluorspar property near Wickenburg, Ariz. However, he did not differentiate between "prospecting" and "exploration", claiming that the work of further exposing the strike length of the Muskhog deposit should be

called exploration. The examiners are of the opinion that an applicant should make a reasonable effort to prospect the deposit before applying for Government aid.

The Muskhog deposit had not been touched since the original location work was done, 2 years ago. Therefore, the examiners suggested that the applicant try to expose the vein to the extent necessary to permit appraisal of the prospect by the Government examiners. After a brief conversation with D. P. Evans on January 22, 1953, he agreed to trench the ore zone with a bulldozer to further expose the vein. He stated that he would notify this office in the event that he felt further consideration should be given the property.

A complete report will be submitted on this property when additional data are available.

R. W. Ageton, Mining Engineer
Mining Methods Branch,
Mining Division, Region IV

CC: W. H. King (Orig. & 8)
DMA-2830
MF

RWAgeton:als