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), Muskhog 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

for A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
5-7-53
(date)

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

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 yielding material of acceptable grade, and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your property and data available to this agency reveals that the probability of disclosing mineable reserves 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,

W. H. King

W. H. King
Field Team, Region IV

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

HMC:cwm

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

Reviewed by
DMEA OPERATING COMMITTEE
5-9-53
(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 foot 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 CLEARANCE COMMITTEE
5-8-53
(date)

MINING DIVISION
REGION IV

April 13, 1953

Memorandum

To : W. . King, Chief, Mining Division, Region I

From : Chief, Mining Methods Branch, Mining Div., Region IV

Subject : Final Report, Docket DMEA-2830, Muskrat Fluorspar Claims, Sunflower Mining District, Maricopa County, Ariz.

Enclosed are original and 3 copies of the section on Summary, Conclusions and Recommendations by John W. 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: W. . King (3)
A. F. Shride
DMEA-2830
DF

WRStorms:als

Reviewed by
DMEA OPERATING COMMITTEE
5-8-53

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
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 E. 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 OPERATING COMMITTEE

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-2830, 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
5-8-53
(date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By John N. 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 Muskhog 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, 1952, John N. 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 8 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.

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

Geology

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

Reviewed by
DMEA [illegible]
5-7-53
(date)

MUSKHOG FLUORSPAR MINE
D.P.EVANS AND JACK CHOISSER, APPLICANTS
MARICOPA COUNTY, ARIZONA
DMEA 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. N. 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 $1\frac{1}{2}$ 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, MUSKHOG FLUORSPAR CLAIMS
FLUORSPAR PRODUCTION CO.
SUNFLOWER MINING DISTRICT
MARICOPA COUNTY, ARIZ.

Engineering Report

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

April 1953

DMEA-2830, MUSKHOG 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-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. 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, R. W. Ageton[1/] and John N. Faick[2/] visited the property and examined the surface exposures.

ACKNOWLEDGMENTS

Acknowledgment is made to D. P. 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 Brush 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

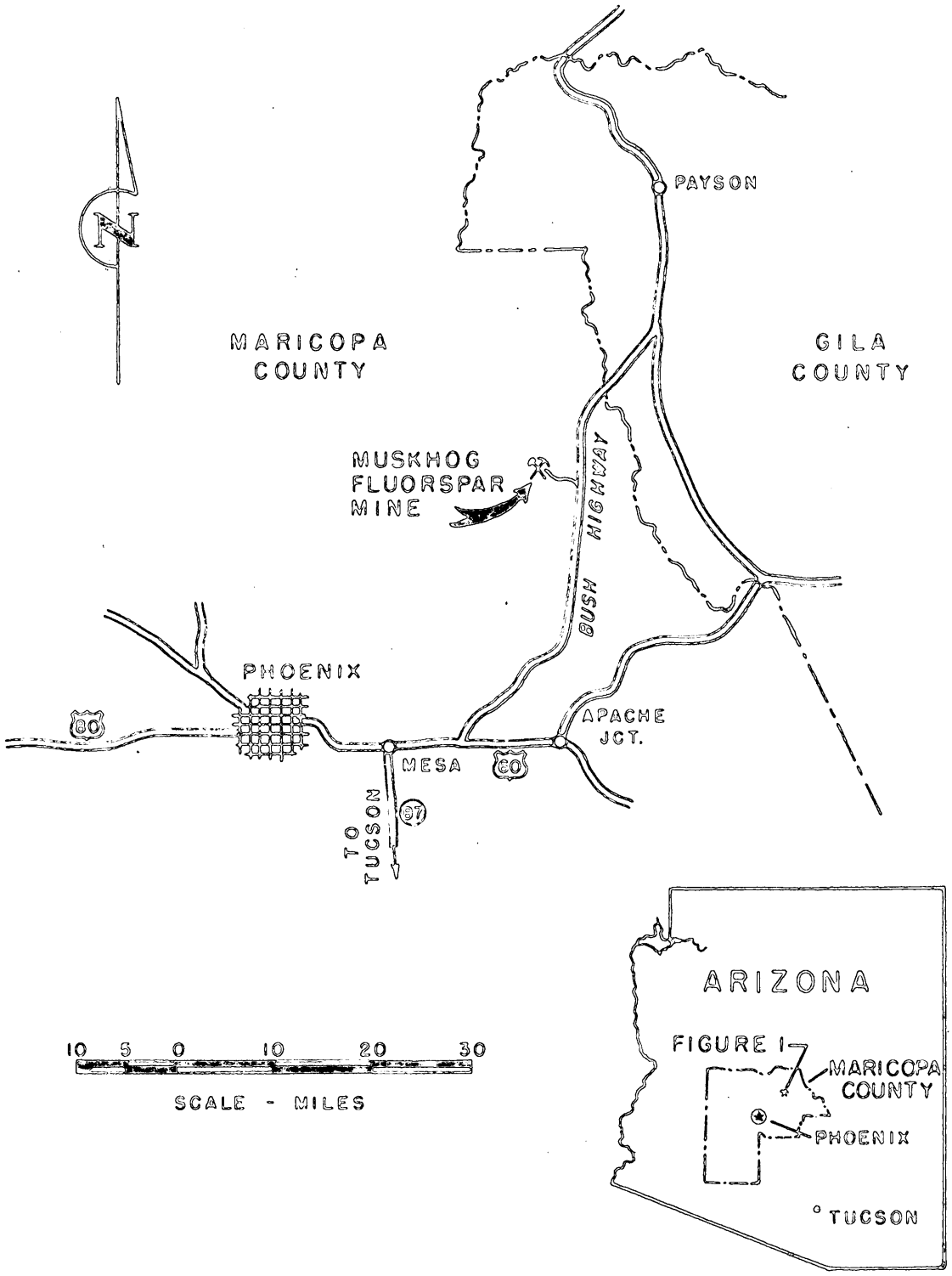


FIGURE 1. - LOCATION MAP, MUSKHOG FLUORSPAR MINE

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	436
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 8 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 8 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 D.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
Tent 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.

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Houk
Selfridge
Mitt

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

Subject: Docket No. DMEA-2830 - Fluorspar
Muskhog Fluorspar Mine
Maricopa County, Arizona

FEB 6 1953

Dear Mr. King:

Reference is made to the subject application for exploration assistance, DMEA-2830, Muskhog Fluorspar Mine, Maricopa County, Arizona, and the memorandum report on January 23, 1953, from W. R. Ageton of the Bureau of Mines.

J. C. 2/6/53

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 (JHB)
Chairman, Operating Committee

Approved:

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

A. R. Kinkel, Jr. (JHB)
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 EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JAN 30 1953

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

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 DMMA-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. F. Shride
DMMA-2830
DF

WRStorms:als

MINING DIVISION
REGION IV

January 23, 1953

Memorandum

To : Walter R. 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 W. 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
W. Wall of discovery shaft, E 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)
DMMA-2830
DF

RWAgeton:als

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

224 New Customhouse
Denver 2, Colorado

December 24, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: Executive Officer, Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate is DMA Form 3a and Form MF-103 in duplicate and supporting data pertaining to the following applications for Government assistance in exploration work.

D. P. Evans, 7240 Canyon Dr. West, Phoenix, Arizona
Jack Choisser, 505 Luhrs Tower, Phoenix, Arizona

W. H. King
W. H. King

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
DEC 1952

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-2730
Metal or Mineral
Date Received 12/29/52
Estimated Cost
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: D. P. Evans, 7240 Canyon Dr. West, Phoenix, Arizona, and Jack Choisser, 505 Luhrs Tower, Phoenix, Arizona, co-partners, d.b.a. Fluorspar Production Co., a partnership.

(*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 Huskhog, Huskhog #2, Huskhog #3. Three unpatented mining claims owned by Ed Conway and Irl Conway and leased by applicant, located in Sunflower Mining District, Maricopa County, Arizona, as more fully described in the lease attached hereto and marked Exhibit #1.

(*b*) State any mine name by which the property is known. Huskhog, Fluorspar Mine.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee Option to buy at $20,000.00, 10% Royalty applicable on purchase price.

(*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. See copy of lease attached hereto marked Exhibit #1.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See copy of lease attached hereto marked Exhibit #1.

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. See Attachment Page -1-

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades See Attachment Page -1-

(*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. See Attachment Page -1-

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Attachment Page -1-

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. See Attachment Page -1-

DEPARTMENT OF THE INTERIOR
DEC 29 1952

5. *The exploration project.*—(*a*) St[illegible] the mineral or minerals for which you wish [illegible]xplore Fluorspar

(*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 map marked Exhibit #3

(*c*) The work will start within 5 days and be completed within 2 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. See Attachment Page -1-

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.). None

(*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. See Attachment Page -1-

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See Attachment Page -1-

(*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. See Attachment Page -1-

(*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. None

(*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. None

(*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. See Attachment Page -2-

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. none

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

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes. See Attachment Page -2-

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

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

Explain in detail on acompanying paper. See Attachment Page -2-

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 December 19, 1952

Fluorspar Production Co.
(Applicant)

By Donnel P. Evans
Jack Chouser

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

4. Physical Description --

(a) This is new property having been located by Dr. Conway and Ed Conway in 1950. There are two 8 ft. holes dug on lead exposing the Fluorspar ore. One of these holes was the discovery shaft, the other being the representing work in 1951, 1952.

(b) One sample taken from the two holes -- assay shows CaF_2 98%, Silica 0.5%.

(c) Vertical vein in a pegmatite formation. (See attached map marked Exhibit #2)

(d) This property is approximately 40 miles northeast of Mesa, Arizona, via Bush Highway. The Bush Highway is within four miles of claims, and a truck road can be built to the property for $500. to $700. The ore would be hauled by truck to Mesa, Arizona, and shipped via Southern Pacific Railroad. This property has the aspects of producing a shipping grade of Fluorspar and would need no processing other than crushing in some instances. The supply for operating could be bought in Mesa or Phoenix, Arizona, and delivered to the mine at a nominal cost.

(e) Manpower would be available in this area. Machinery and equipment is also available. Water for mining purposes is available at spring 1/4 mile away.

5. The Exploration Project --

(a) We wish to explore for Fluorspar ore.

(b) See attached map marked Exhibit #3.

(c) We can and will start work immediately upon making contract.

(d) I, D. P. Evans, will supervise the work and am quite capable of same as I have had 20 years of experience in mining, and a considerable amount of time on Fluorspar.

6. Estimate of Costs --

(a) None

(b) Labor (3 men, including D. P. Evans) for two months, including Tax and Insurance $2,500.00

(c) and (d)

1.	Road work	700.00
2.	Rent on Compressor and hoist (2 months)	450.00
	Hammer - Hose	150.00
3.	Timber	250.00
4.	Oil, gas for equipment (2 months)	150.00
5.	Hauling equipment to mine and return	100.00
6.	Powder and fuse and caps	250.00
7.	Tools and Steel	200.00
8.	Tent to house men	250.00
9.	Miscellaneous	200.00
	TOTAL	$5,200.00

6. Estimate of Costs — (Continued)

(e) None

(f) None

(g) Labor (3 men, including D. P. Evans) for two months, including Tax and Insurance $2,500.00

(h) None

7.

(a) Yes, we are prepared to pay our share of the cost — 50%.

(b) We think it best to pay the 50% share in cash, as it will be a partnership, and I will be working at the project myself and will draw a wage of $15.00 per day. It will be easier to keep a correct and complete record in this manner.

I own, at this time, some small tools and equipment which I will sell to the company for a total charge of less than $100. I also own a new pickup truck that can be used to haul supplies for a charge of 10¢ per mile.

MINING AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

IRL CONWAY and ED CONWAY, the parties of the First Part, and FLUORSPAR PRODUCTION CO., the Party of the Second Part have this day entered into the following mining agreement.

W I T N E S S E T H:

The parties of the first part do hereby covenant and agree to sell and deliver the hereinafter described mines and mining claim to the party of the second part for the consideration and upon the terms and conditions herein set forth, said mining property being described as follows:

> The MUSKHOG, MUSKHOG No. 2, the MUSKHOG No. 3 unpatented mining claims situate in the SUNFLOWER MINING DISTRICT, Maricopa County, Arizona, a copy of Notices of location thereof being of record in the office of the County Recorder of Maricopa County, Arizona, in Docket 718, page 436 and Docket 771, pages 194 and 195

The purchase price agreed upon which the party of the second part is to pay to the parties of the first part for the said described property is TWENTY THOUSAND DOLLARS ($20,000.00) which said sum the party of the second part shall have the option of paying in installments as follows:

Second party shall pay to the parties of the first part five (5) per cent of the net returns from all ores or products thereof shipped and disposed of from said property, until Five Thousand($5,000.00) Dollars has been paid at which time party of the second part shall pay ten (10) per cent until balance due is paid in full; provided, however, that the party of the second part is to pay to GEORGE T. CLINE, who holds an unrecorded interest in the property five (5%) per cent of net returns from all ores mined from said property until Five Thousand ($5,000.00) Dollars has been paid to said GEORGE T. CLINE, and which shall be part of the original purchase price paid to parties of the first part.

EXHIBIT #1

Settlements for royalty shall be made on or before the tenth day of each and every month for all ores or products thereof sold and disposed of during the preceeding month for which second party shall have received settlement. The settlement sheets received by second party shall be the basis for all settlements and a duplicate copy thereof shall be given to parties of the first part along with each settlement.

The possession of the said described property is hereby given to the party of the second part, with the right to work, operate, mine and develop the same in such manner as he may see fit, and mine and reduce the ores therefrom and sell and dispose of the ores and products thereof limited only to the payment of the royalty above provided for.

All work shall be done in a miner like manner and with due regard to the future operation of the property, and in compliance with the mining laws and rules and regulations of the State Mine Inspector.

It is agreed that second party shall have sixty days within which to start operations, that from and after such date he shall do and perform not less than one hundred man shifts per year in mining and improvement upon said property.

The party of the second part may install such machinery and equipment upon the said property as he may see fit and remove the same during the life of this contract or within a reasonable time after its termination, provided, however, that nothing shall be removed that will leave the mine in an unsafe condition or do damage to the said property.

Second party agrees to keep true and correct records of all development work and areas of mining and to furnish first parties with copies thereof upon reasonable request; also, to keep true records of all ores produced and supply first parties with copies thereof when requested so to do.

The parties of the first part agree to deliver a good possessory title to the said property, free of all encumbrances whatsoever.

WITNESS the hands of the parties hereto this 10th day of December, 1952.

signed/ Irl Conway
IRL CONWAY

signed/ Ed Conway
ED CONWAY

Parties of the First Part

FLUORSPAR PRODUCTION CO.,

By Signed/ Darrel P. Evans
DARREL P. EVANS, Manager

Party of the Second Part

STATE OF ARIZONA)
ss
County of Maricopa)

This instrument was acknowledged before me this 10th day of December, 1952, by IRL CONWAY and ED CONWAY.

signed/ G. E. Toos
Notary Public

My Commission expires:
March 4, 1954

STATE OF ARIZONA)
ss
County of Maricopa)

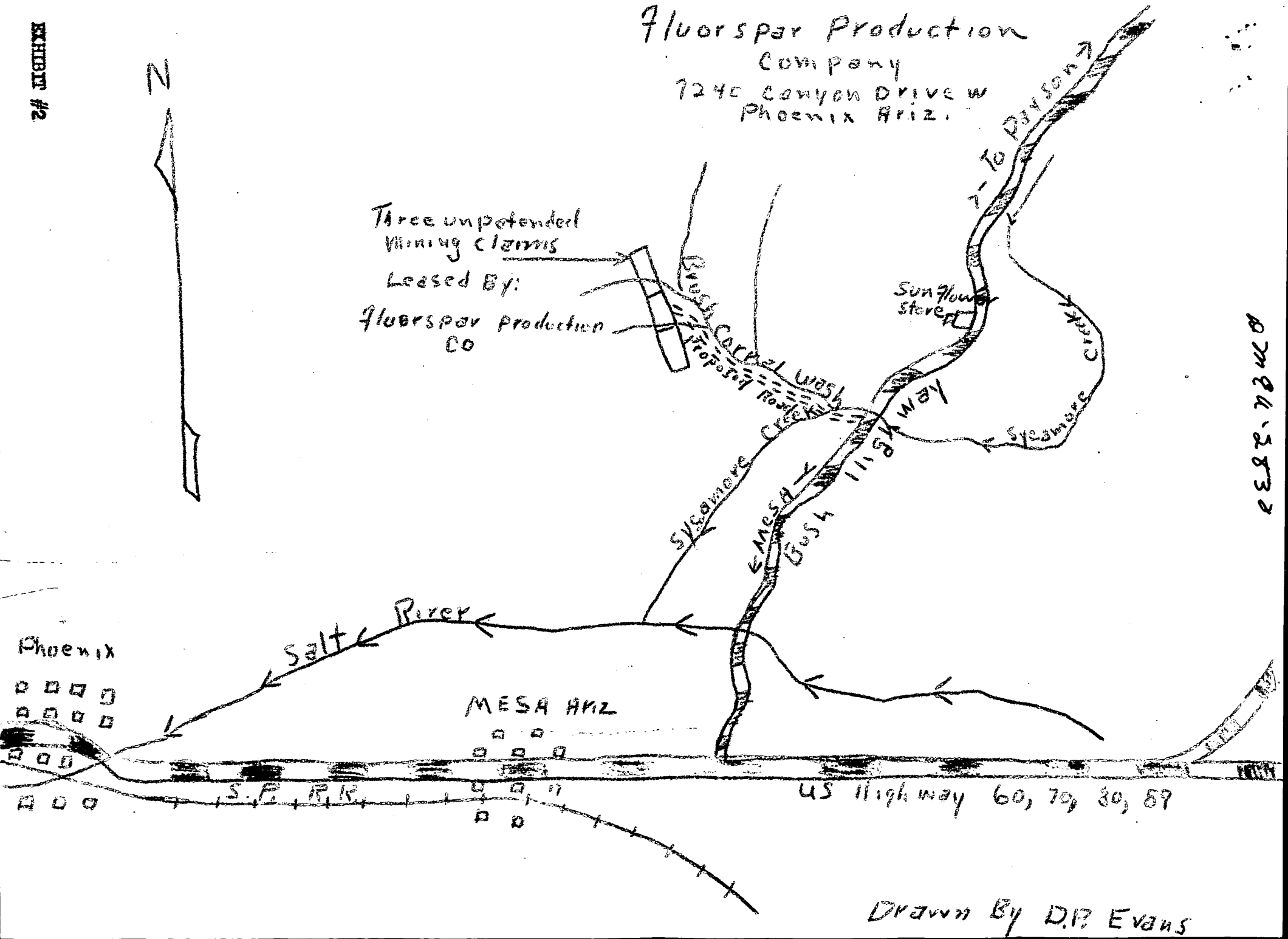
This instrument was acknowledged before me this 10th day of December, 1952, by DARREL P. EVANS, Manager for FLUORSPAR PRODUCTION CO.

signed/ Jack Choisser
Notary Public

My Commission expires:
March 4, 1954

Map #1

EXHIBIT #2



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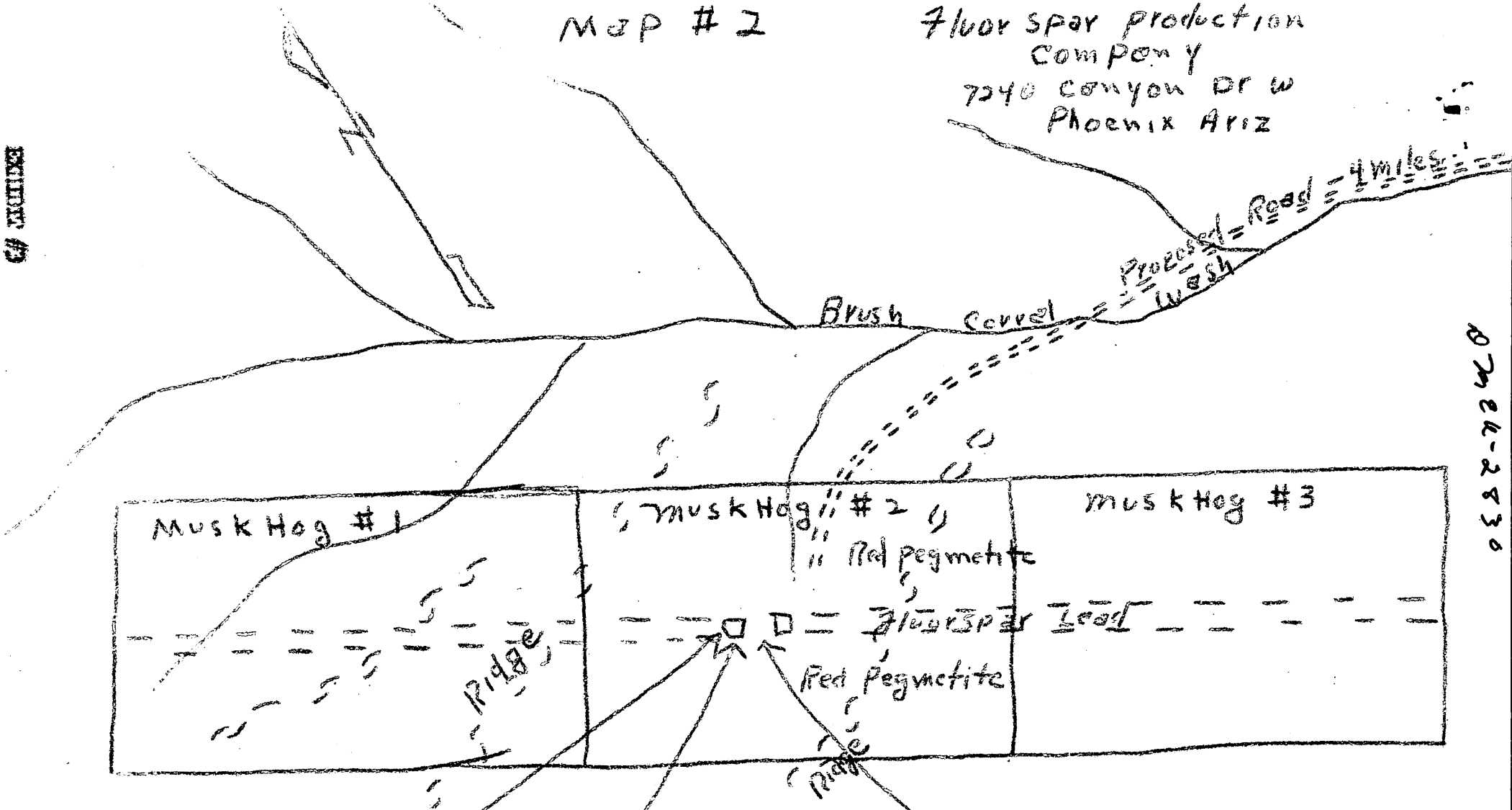
Map # 2

Fluor Spar production
Company
7240 Canyon Dr W
Phoenix Ariz



48 inches ore Showing
in Discovery Shaft
8 ft Depth

Sample from 48 inches
in Two Holes Shows 98% CaF2

Propose To sink
50 ft at This
Point

Ridges on East & west
Sides of Location
Approx 250 ft distance
length 150 ft

Note
By sinking on Vertical Vein
near Bottom of Small Draw
will gain Depth in Drifting

Claims 1 & 3 Have no Appearant
Work Done on Them

Drawn By DP Evans

EXHIBIT B

0 2 4 6 8 10

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
OFFICIAL BUSINESS

1 cy 2 maps enclosed
12/30/52

Administrator
Defense Minerals Exploration Adm.
Interior Bldg.
Washington 25, D. C.

Attention [illegible]