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PRINTED: 04/17/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MUSKHOG CLAIMS

ALTERNATE NAMES:

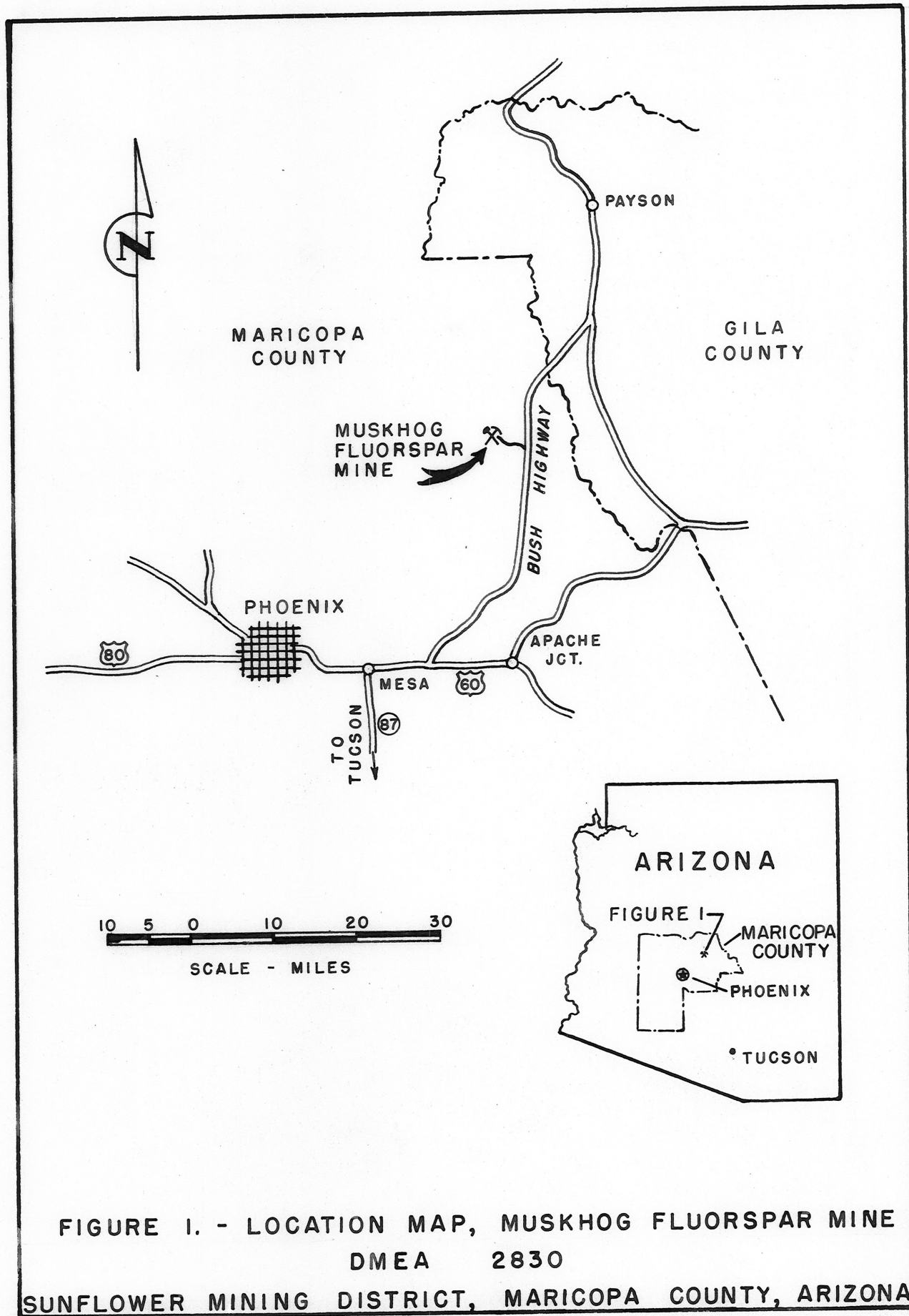
MARICOPA COUNTY MILS NUMBER: 518

LOCATION: TOWNSHIP 5 N RANGE 8 E SECTION 18 QUARTER NE
LATITUDE: N 33DEG 47MIN 29SEC LONGITUDE: W 111DEG 32MIN 40SEC
TOPO MAP NAME: MAVERICK MOUNTAIN - 7.5 MIN

CURRENT STATUS: RAW PROSPECT

COMMODITY:
FLUORINE FLUORSPAR

BIBLIOGRAPHY:
ADMMR "U" FILE
VAN ALSTINE R AZBM BULL 180 P 352
ADMMR FLUORSPAR PUB P 26
ADMMR MUSKHOG FILE



MUSKHOG CLAIMS

5/84

MARICOPA COUNTY
SUNFLOWER DISTRICT
T5N R8E Sec 18

MILS Maricopa Index #518, p.3270

USBM "U" File

DMR - Fluorspar p. 29

ABM Bull. 180, p. 352

MINE: Muskhog Claims

ENGINEER: Ken A. Phillips

DISTRICT: Sunflower

DATE: May, 1984

COUNTY: Maricopa

LOCATION: Southwest portion of T5N R8E. Exact location is not known.

COMMODITY: Fluorspar

DISCUSSION: This occurrence is reported to contain a small deposit of high grade coarse-grained crystalline, pale to deep green and dark purple fluorite. Further, Jim Vacek of the 49ers Minerals desires a regular supply of coarsely crystalline green fluorspar for decorative purposes. His current supply is apparently believed to be mined out. His market is for many tons at a price many times higher than metallurgical or acid grade fluorspar. However, waste from mining and upgrading mine run material may be saleable to local electric arc iron and steel foundaries.

The exact location of the occurrence is unknown. The region is accessed by a limited number of roads and it was felt the exact location could be determined by reconnaissance of the area. Field verification found roads both impassable and in some cases completely obliterated. Local inquiry of prospectors active in the district was of no help. The occurrence could not be accessed or pinpointed. The last reported visit to the deposit is believed to have been in 1953. Mr. Vacek has hopes of finding some "casual labor" type help who will attempt to locate the occurrence on foot or on an incentive basis.

Additional file data from the U. S. Bureau of Mines has been requested for this occurrence.

300 tons of barite were shipped from the property. A representative sample, taken and assayed by the U. S. Bureau of Mines ran 15.6% CaF_2 , 53% BaSO_4 , and 1.7% CaCO_3 . Metallurgical tests indicate that acid grade fluorspar concentrates and a good grade of barite could be made by flotation methods.

WHITE ROCK (Blue Bird) CLAIMS

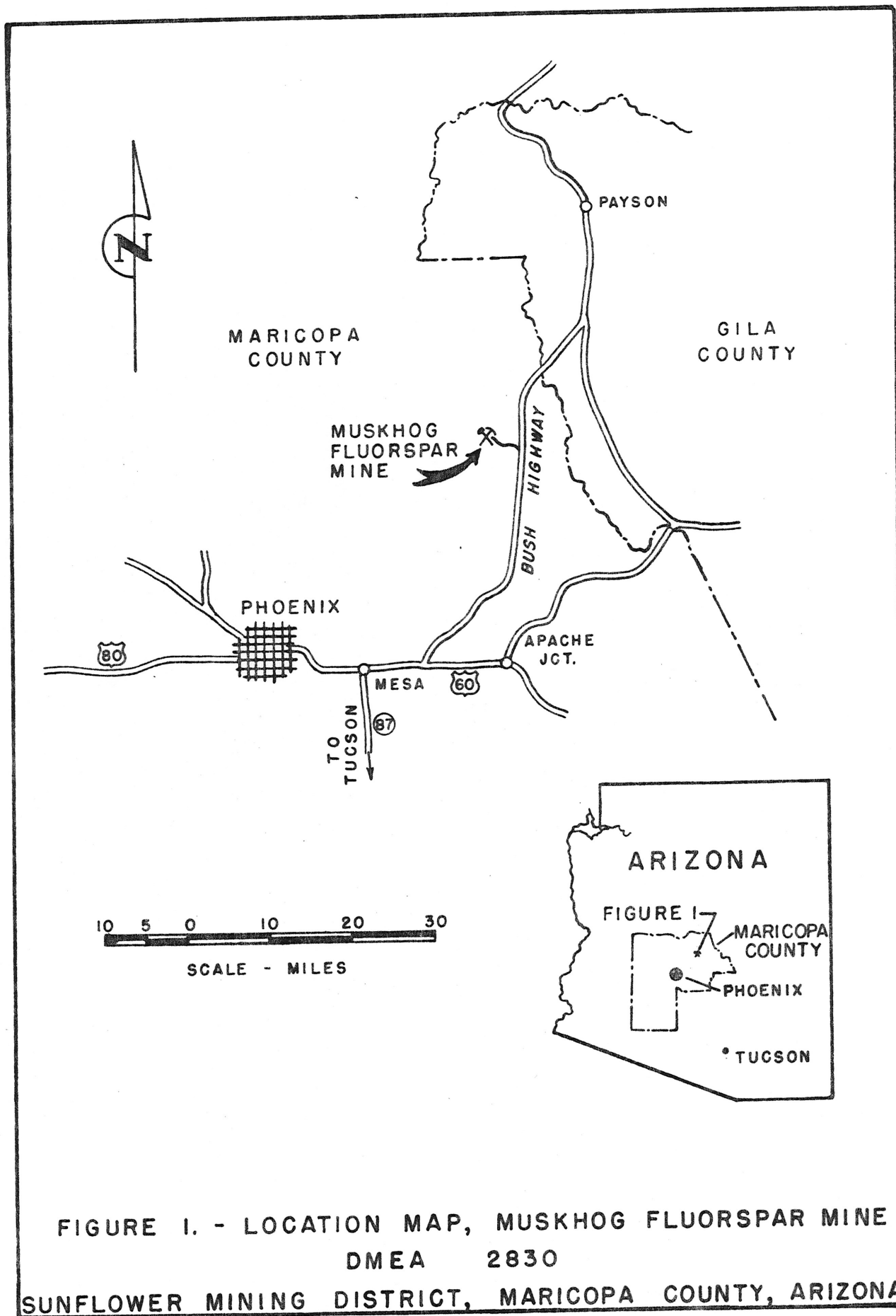
Located about 1 mile east of the Princess Ann deposit in sec. 35, T5N R10W, at approximately elevation 2000. Barite-fluorite mineralization occurs in a fractured basalt, as stringers and veins varying from 1 inch to 2 feet wide. A typical ore sample taken by the U. S. Bureau of Mines assayed 7.7% CaF_2 , 86% BaSO_4 , and 3.4% CaCO_3 .

ROWLEY MINE

This property consists of 6 patented claims, on the west flank of the Painted Rock Mtns., in the NE-1/4 sec. 25, T4S R8W. Access to this property from Gila Bend (at intersection of Arizona Hwy. 84 and Interstate Hwy 8) travel west on Interstate Hwy. 8 for 14.5 miles, turn right on the Painted Rock Dam road for 12.6 miles, then right on dirt road to the mine for about 1 mile. The development work consists of an inclined shaft and a vertical shaft, from which wulfenite and base metals were mined from 1909 to 1923. Barite with minor amounts of fluorspar occur in a faulted andesite. A sample assayed by the U. S. Bureau of Mines was reported at 3.8% CaF_2 , 64% BaSO_4 , 3.6% Pb, 0.1% Cu, and 0.8 ounces Ag per ton.

MUSKHOG PROSPECT

Located in the SW-1/4 T5N R8E, about 5 miles south of Granite Mtn. Access to the property is from the Beeline Hwy. An open cut exposes a 3 ft. wide, high grade fluorspar vein in a Pre-cambrian granite. The ore is pale to deep green, dark purple, and coarse-grained crystalline.



Maricopa A 7
County Date

Chief Mineral Fluorspar No. Fl 8
Accessory Minerals

Property Name: Muckhog Claims

Location: About 53 miles NE of Mesa, Ariz.

Owner: Name Address

Date

NEAR EAST BASE OF GRANITE MT

Irl and Ed Conway, Sunflower, Ariz.

4/28/53

SN-8E-NE18

Operator:

Evans and Choisser, Fluorspar Production Co., 7240 Canyon Dr. W., Phoenix, Ariz.

Production:

Total None From to

Present Rate per Date

Source of Information:

Status

Date

Inactive

4/28/53

US BM Report: File No. DMEA 2830

Classification: Prospect

(See other side for general information)

General Information: Prospect is situated near the east base of Granite Mountain. The fluorite deposit is a relatively narrow, steeply dipping fissure veins which strike about N. 30-35° W. and dip irregularly to the southwest. 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 strike length of deposit is about 25 feet. 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. Results of sampling indicate that the vein has an average width of about 3 feet and a grade ranging from 45 to 55 percent CaF₂.

Character of Ore: Fluorite

Equipment (Date 4/28/53): None



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

224 New Customhouse
Denver 2, Colorado

April 23, 1953.

Fluorspar Production Company
7240 Canyon Drive West
Phoenix, Arizona

Gentlemen:

Re: Docket DMEA-2830

Reference is made to your application for Government aid on the Muskog 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

A. H. Koschmann

A. H. Koschmann
Field Team, Region IV

HMC:cwm

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

MINERAL PROPERTY FILE

COUNTY Maricopa STATE Arizona

DMEA 2830
Present file No. AZ 463.2/20017
New file No. 25.34

TWP - RANGE - SECS. -

Main Commodity Fluorspar
Others

PROPERTY NAME Muskhog Fluorspar Claims

OTHER NAMES

OWNER Irl Conway & Ed Conway ADDRESS

LESSEE Fluorspar Production Co. ADDRESS Phoenix, AZ

LOCATION Sunflower mining district, about 53 miles NE of Mesa, AZ

ACCESS

TYPE OF DEPOSIT:

Disseminated X Bedded Contact Placer
Vein X Lenses or pods Residual Other

WORKINGS:

Underground ACCESSIBLE: Yes No Unknown

Drift, X-cut Shaft

Total Length: Less than 200' 200' to 1,000' More than 1,000'

Surface X

Open pit Small Large Trenches X Test pits X

Drill holes

Undeveloped

PLUS 500 TON PRODUCTION: Yes No ne Unknown

DATE OF INFORMATION March 1953

TYPE OF REPORT:

Standard Examination DMEA or OME X WMR Correspondence
Summary Report Access Road MRB Other
Map Non Bureau

FURTHER WORK RECOMMENDED NOT RECOMMENDED X

DEPARTMENT OF THE INTERIOR
UNITED STATES

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

April 2, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMSA Docket 2830 (Fluorspar), Muskogee
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

Engineering Report

March 1953

DMEA-2830, MUSKOGEE FLUORSPAR CLAIMS
 FLUORSPAR PRODUCTION CO.
 SUNFLOWER MINING DISTRICT,
 MARICOPA COUNTY, ARIZ.

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ILLUSTRATIONS

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1 Location map 1

INTRODUCTION

Under date of December 23, 1952, the DMEA Field Team, Region IV, requested a field examination of the Muskog 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 Muskog 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

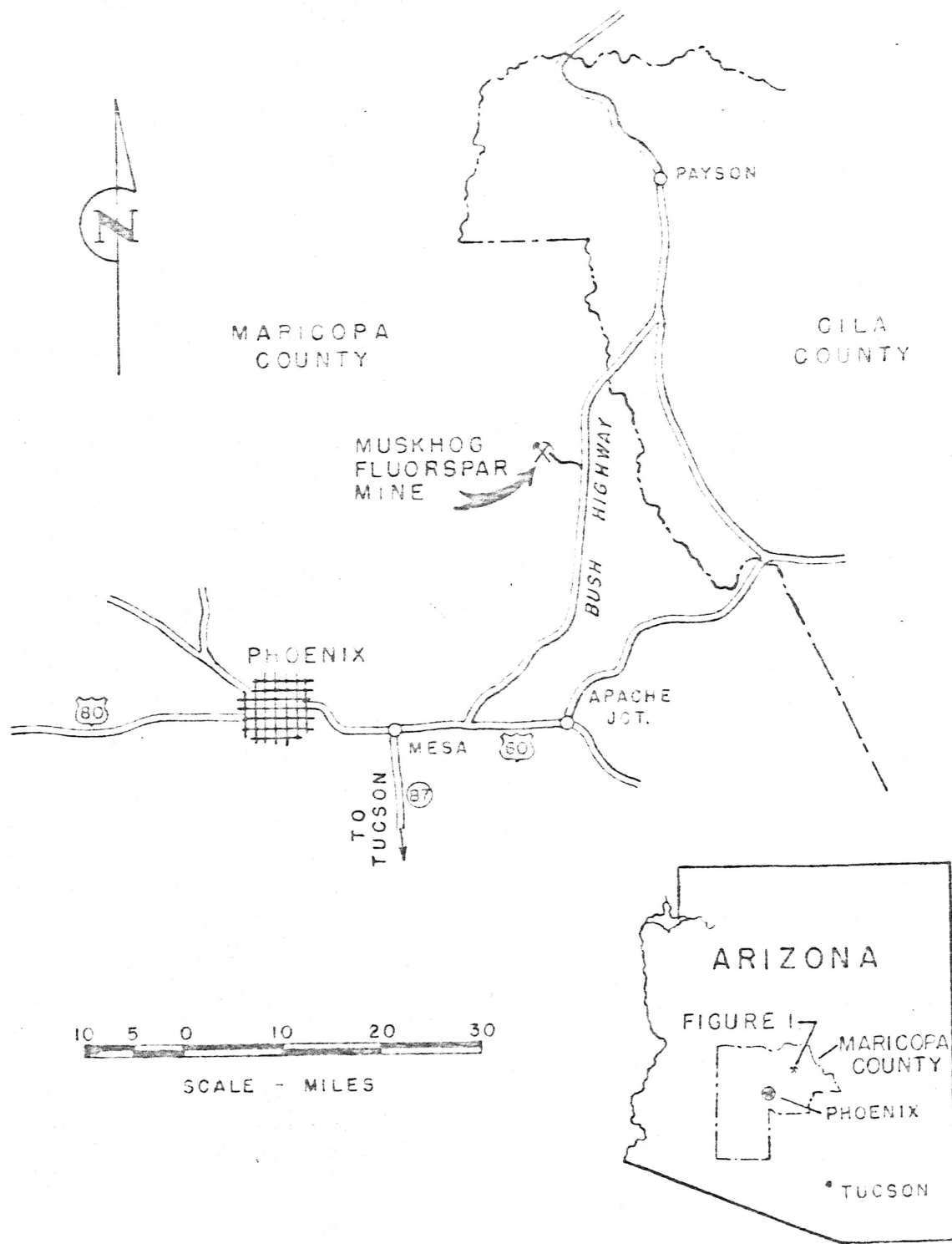


FIGURE I. - LOCATION MAP, MUSKOG FLUORSPAR MINE
DMEA 2830
SUNFLOWER MINING DISTRICT, MARICOPA COUNTY, ARIZONA

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:

<u>Name</u>	<u>Docket</u>	<u>Page</u>
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 that 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:

<u>Sample</u>	<u>Sample Width</u>	<u>Percent CaF₂</u>
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 CaF₂. 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.

The location of the deposit and the probable grade of ore extracted indicate that a mining operation would not be profitable. Tentative estimates of the cost of production are as follows:

Gross value per ton of 55% CaF_2 f.o.b. Deming,
N. Mex.\$10.80

Cost per ton

Mining: \$5.00

Haulage:

Truck haulage to Mesa,
Ariz., 53 miles at 10¢
per ton mile . 5.30

Rail haulage, Mesa, Ariz.
to Deming, N. Mex. 5.26

TOTAL

\$15.56

Loss per ton\$ 4.76

This estimate indicates an unprofitable operation without considering the additional deductions of royalty payments and taxes.

PRESENT STATUS, EXPLORATION AND DEVELOPMENT

The locators sank on the Muskog No. 2 Claim, a discovery shaft, 5 feet by 6 feet by 8 feet deep. 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 cross 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 by the applicant 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	<u>200.00</u>
Total	\$5,200.00

PROPOSED FINANCING

The applicant proposes to furnish its share (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 deposit appears to be too small to justify an estimation of ore reserves.

4. Tentative cost estimates indicate that a fluorite vein of this width and grade in this location cannot be economically mined under present conditions. Freight charges would almost equal the gross value per ton of ore delivered at Deming, N. Mex., the nearest market at the present time.

RECOMMENDATIONS

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

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, DMEA-2830, Muskog Fluorspar Mine,
Maricopa County, Ariz.

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

The Muskog fluorspar claims are situated about 53 miles north-east 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:

<u>Sample</u>	<u>Sample Width</u>	<u>Percent CaF₂</u>
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 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)
DMEA-2830
DF

RWAgeton:als