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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MUSCOVITE MICA

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 204A

LOCATION: TOWNSHIP 29 N RANGE 19 W SECTION 14 QUARTER S2  
LATITUDE: N 35DEG 54MIN 05SEC LONGITUDE: W 114DEG 17MIN 35SEC  
TOPO MAP NAME: SENATOR MOUNTAIN - 15 MIN

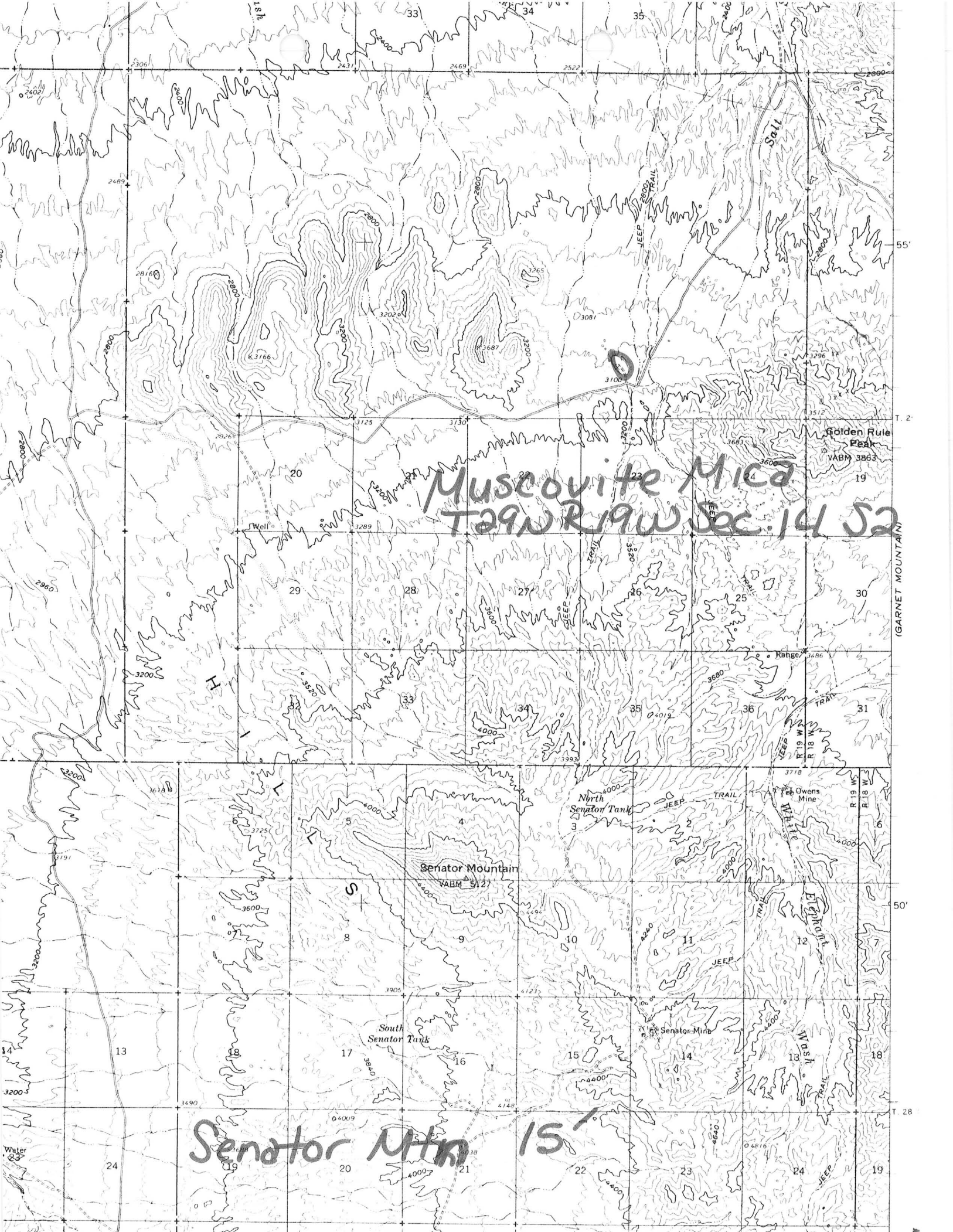
CURRENT STATUS: PAST PRODUCER

COMMODITY:

MICA MUSCOVITE  
SILICON QUARTZ  
FELDSPAR

BIBLIOGRAPHY:

ADMMR FIELD CHECK BY COGGINS & KEN A PHILLIPS  
ADMMR MUSCOVITE MICA MINE FILE  
USGS SENATOR MTN QUAD



Muscovite Mica  
T29N R19W Sec. 14 S2

Senator Mtn 15

Muscovite  
15 min

Golden Rule  
Peak  
VABM 3863

Senator Mountain  
VABM 5127

South  
Senator Tank

North  
Senator Tank

Senator Mine

John Owens  
Mine

VABM 4976

Senator Mountain  
15 min 1965

Cyclope Pumping Sta

Spears Ranch

3977  
3976  
3975  
3972  
3971  
3970  
3969  
3968  
3967  
3965  
3964  
3962  
3961000m N

3155  
3150  
31

GARNET MOUNTAIN

H

S

WASH

PIPELINE

VABM 1615

COMMODITIES Muscovite Mica  
ID NO. 204A MILS DATE 4/21/80

PROPERTY SUMMARY

I. MINE NAME: Muscovite Mica Mine AKA;  
AKA; \_\_\_\_\_ AKA;  
AKA; \_\_\_\_\_ AKA;

I. LOCATION: T 29N R 19W Sec(s) NESW 14 UTM; \_\_\_\_\_  
ELEV.; 3100' DIST.; White Hills? STATE; Arizona CO.; Mohave  
DIRECTIONS; 70 miles north of Kingman, via Boulder Dam Rd. to White Hills and  
Temple Bar Rd., turn on Salt Spr. Rd., 6 miles to mine.  
\_\_\_\_\_ Map Attached / /

II. OWNERSHIP: Name; Blanche Peterson Phone; \_\_\_\_\_  
Address: Kingman, Arizona  
Date of Information; 1952  
DBA; \_\_\_\_\_ Title Report Attached / /

V. PROPERTY: Unpatented mining claims, Muscovite #1-5 incl. Also Expand #1-7, current  
status undetermined.  
\_\_\_\_\_ Date of Property Status; 1952 Map Attached / /

III. HISTORY: First Located; Prior to 1952 Operated; Prior to 1952  
Remarks; Needs property and status study.  
\_\_\_\_\_ Report(s) Attached / /

VI. PAST PRODUCTION: 20,000 tons Mica estimated heads 5-6% Mica with 80-90% recovery.  
\_\_\_\_\_ Schedule(s) Attached / /

WORKINGS: Several pits along dikes. The largest is 400' to 500' long, 40' wide and 60' deep at lowest part. Other pits much smaller.

Map Attached / /

I. GEOLOGY: Deposit Type; Pegematite dike Vein Strike; N80E, N65W  
Distance; Varies Width; 40' Dip; Vert Age; \_\_\_\_\_  
Host Rock; horn blend schists Age; \_\_\_\_\_ Ore  
Control Unknown

Existing Report(s) Attached / / Report Based on New Examination Attached / /

MINEROLOGY: Economic Minerals; Simple peg with qtz, mica, feldspars

Gossan Minerals; \_\_\_\_\_

Alteration; phyllite, possible hydro-mica or illite

Gangue; qtz & felds

Petrographic Study; \_\_\_\_\_ Report(s) Attached / /

METALLURGY: air screen separation Report(s) Attached / /

Method of Determination; \_\_\_\_\_ Metallurgical Reports Attached / /

Remarks; \_\_\_\_\_

SAMPLE DATA: Not taken Sampling Technique; \_\_\_\_\_

Samples Taken By; \_\_\_\_\_ Number of Samples; \_\_\_\_\_

Date; \_\_\_\_\_ Assay Report(s)/Maps Attached / /

Drilling; \_\_\_\_\_ Type; \_\_\_\_\_ Total Footage; \_\_\_\_\_

When Drilled; \_\_\_\_\_ Drilling/Report Attached / /

I. GEOCHEMISTRY: \_\_\_\_\_ Type; \_\_\_\_\_ Type Anomolies; \_\_\_\_\_  
\_\_\_\_\_ Report(s)/Map(s) Attached / /

II. GEOPHYSICS: \_\_\_\_\_ Type; \_\_\_\_\_  
\_\_\_\_\_ Anomolies; \_\_\_\_\_

\_\_\_\_\_ Report(s)/Map(s) Attached / /

AERIAL PHOTOGRAPHY: \_\_\_\_\_ Photo Attached / /

RESERVES: Proven; \_\_\_\_\_ Calculations Attached / / Probable; \_\_\_\_\_  
Calculations Attached / / Possible; \_\_\_\_\_ Calculations Attached / /  
Total; \_\_\_\_\_ Calculations Attached / / Potential; \_\_\_\_\_  
Calculations Attached / /

ECONOMICS: Mine Life; \_\_\_\_\_ Yrs. Annual Production; \_\_\_\_\_  
Capital Outlay; \_\_\_\_\_ Time; \_\_\_\_\_  
Operating Cost; \_\_\_\_\_ /Yr. \_\_\_\_\_  
Gross Annual Income; \_\_\_\_\_ DCF/ROI; \_\_\_\_\_  
Metal Prices Used; \_\_\_\_\_  
Sensitives; \_\_\_\_\_ Report(s) Attached / /

I. REFERENCES:

Author; Reed, George F. Title; Field Engineers Report  
Date; 10/29/52 Abstracted By; H.M. Coggin Date; 4/22/80  
Status; ADMR File  
Remarks; \_\_\_\_\_

Author; \_\_\_\_\_ Title; \_\_\_\_\_  
Date; \_\_\_\_\_ Abstracted By; \_\_\_\_\_ Date; \_\_\_\_\_  
Status; \_\_\_\_\_  
Remarks; \_\_\_\_\_

Author; \_\_\_\_\_ Title; \_\_\_\_\_  
Date; \_\_\_\_\_ Abstracted By; \_\_\_\_\_ Date; \_\_\_\_\_  
Status; \_\_\_\_\_  
Remarks; \_\_\_\_\_

II. REMARKS:

Field review by K. Phillips of the Arizona Department of Mineral Resources, and  
H. Mason Coggin, Coe & Van Loo Consulting Engineers, Inc., Phoenix, Arizona.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mohave Co. 13

Mine Muscovite Mica Mine Date October 29, 1952.  
District 70 miles N. of Kingman, via Boulder Dam rd. to White Hills and Temple Bar rd., turn on Salt Spr. Rd. 6 mi. to mine. Engineer Geo. F. Reed  
Subject: Recent Work on Muscovite Claims.

Note: This data from my visit this date supplemented by information from Bill Howard of Kingman who was in charge of recent work on the property.

Unpatented Claims, Muscovite #1, 2, 3, 4 & 5, owned by Blanche Peterson, Kingman, Ariz.

Recently have been leased to Mica Mining & Milling Co., of P.O. Box 14005, Barrington Station (Santa Monica), Los Angeles, Calif. (Part of Alberhill Coal & Clay Co.)

Mica M. & M. Co. staked surrounding claims called Expand #1 to ?.

<sup>P</sup> Approximate location of the mine is Twp. 29N, Range 19W, between Squaw Peak and Salt Spr.

Fair graded dirt road after leaving pavement on Boulder Dam Hwy. from Kingman. Forty six miles paved and 24 miles dirt road. Turn right off Temple Bar road about 18 miles from the pavement, thence six miles to the mine.

Mine is in Mohave County North of White Hills Mining Dist., about 10 miles N-NE of White Hills Camp.

Mine is on gently rolling country, quite deeply weathered. Mica M. & M. Co. has prospected quite an area with bull-dozer cuts. The rocks are probably Pre-Cambrian schists, gneisses and intrusives, intruded by pegmatites which carry the mica. The pegmatite bodies are from a few to 20 or 30 feet across, but very irregular and discontinuous. There is much faulting & shearing. Mica books are mostly two to four inches across and up to eight inches. Gangue in the dikes is quartz and pink (probably Orthoclase) feldspar. In mining there is much dilution from surrounding rocks. Mining was done with large earth-moving equipment.

Milling was done with a trap to a chute (fed from above with stock-pile and bull-dozer) in a short adit, then on feeder belt to hammer mill with 75 H.P. Motor, then air and screen classification, using cyclones, etc., thence to storage. Product different grades of scrap mica. Power D-13000 Caterpillar Diesel, generator, and motors.

Howard estimated the average head with this type mining was 5-6% Mica with recovery possibly 80-90% product worth roughly \$35.00 per ton at the mine.

The deposit appeared un-economic, so Mica M. & M. Co., has removed all equipment, part of it to Boulder Station on the Hwy. near Temple Bar Turn-off and part to Los Angeles. They have given up the property.

Howard stated the Hammer Mill would grind about 35 tons per hour of feed, but the hammers needed turning every four hours. They can be turned four ways. Maintenance on the hammer mill would be a large item on steady operation, at least a welder shift hard surfacing per mill shift, he stated.

At present, all equipment & buildings have been removed from the mine except two tanks.

George F. Reed



DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mohave Co. 45

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