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## ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLACK MESA COPPER CLAIMS

**ALTERNATE NAMES:** 

LA PAZ COUNTY MILS NUMBER: 308

LOCATION: TOWNSHIP 3 N RANGE 17 W SECTION 17 QUARTER SE LATITUDE: N 33DEG 36MIN 04SEC LONGITUDE: W 114DEG 01MIN 48SEC

TOPO MAP NAME: QUARTZSITE - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD SILVER COPPER GOLD LODE

GOLD LC

**BIBLIOGRAPHY:** 

KEITH, S.B., 1978, AZBM BULL. 192, P. 167 ADMMR BLACK MESA COPPER CLAIMS FILE

### ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

## INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM480

LaPaz County

MM481

Silver ore

Plomosa Mts.

Raymond Perry Claim

Silver ore MM482

MM-1692A Chalcedony, copper stained MM-1692B Chalcedony, copper stained.

MILS #308

0-AK.1.2

BIACK MESA COPPER CLAIMS (jel)

NIME OF MINE: BLACK MESA
OWNER:

OPERATOR AND ADDRESS

Date:

3/47

E. C. Jennings, Quartzsite

COUNTY: YUMA
DISTRICT:
METALS: Ag,Pb

MINE STATUS
Date:
3/47

Shipping

# ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

# INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM 483 Cerargyrite w/silver ore

LaPaz County

Plumosa Mtns

Black Mesa Mine MILS #308

BLACK MESA COPPER CIALLIS (file)

YUMA COUNTY

#### BLACK MESA COPPER CLAIMS

Mr. Williams visited Mr. John Wilson, January 7, 1965. Mr. Wilson said that the Black Mesa Copper Claims and the Black Mesa Group are the same thing. Mr. Wilson said that he was moving to Chloride permanently and would no longer have a Phoenix address. Mr. Wilson also stated that the information in this, 11-28-64, report was correct. EGW (dictated) 1-8-65

Not active about six months. LAS 4-1965

### DEPARTMENT OF MINERAL RESOURCES

# STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine

Black Mesa Copper Claims

Date

Nov. 28, 1964

District

New River Mountains - Yuma County

Engineer

Lewis A. Smith

Subject:

Conference with John Wilson

Access: 6 miles of road from Brenda via the Apache Copper Mine, from Hwy. 60-70.

Property: 6 claims in one group and 8 claims in another.

Owner: John Wilson, 3415 N. 12th Street, Phoenix - Box 177, Chloride (present address).

Lessee: E. F. Peterson et al, of Las Vegas, Nevada (Las Vegas Sand & Gravel Co.).

Minerals: Copper and a little gold.

Work: The lessees are now mining copper ore at an average rate of  $1\frac{1}{2}$  cars per week and shipping it to AS&R at Hayden. Several cars have assayed about 12 percent copper. The ore is trucked, in 5-yard trucks, to McVay, on the Santa Fe RR, a distance of 32 miles, under a contract at  $6\frac{1}{2}$  cents per ton mile (all but 6 miles is on paved state highways).

The older workings include a 60-foot adit cross cut at the end of which is a 250-foot winze that is said to carry ore most of the way down the mineralized zone dip.

Geology: According to Wilson the "vein" strikes N-S and dips about 70° E. It apparently follows a fault or fissure in volcanic rocks (believed to be basalt) and at the workings ranges from 5 feet, at the surface, to 12 feet wide at the bottom of the winze. The main copper minerals include malachite, azurite, and native copper and, beside the iron, a little quartz. Brecciated and highly altered country rock also is present in the "vein" fracture. Epidote and chlorite have been seen also. The iron in the "vein" is said to run 43 percent and it is mainly hematite with some magnetite.

### DEPARTMENT OF MINERAL RESOURCES

# STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Black Mesa Group

Date

January 5, 1962

District

Plomosa District, Yuma Co.

Engineer

LEWIS A. SMITH

Subject: Interview with Raymond Perry at Brenda

Owner: Mrs. Sussana Galbraith, Redwood, Oregon.

Property: 4 claims

Location: NW tip of Black Mesa

Minerals: Silver, lead, copper and some gold.

Work: 300 feet of tunnels (6 in all) the longest being 100 feet. 20 foot winze at breast of 100 foot tunnel (deepened 10 feet by Perry in 1961 for assessment work).

Geology: The deposit is a replacement of limestone which is overlain by basalt cap rock. The ore solutions found access to the limestone along shear fractures which trend nearly N-S. Lenses of ore occur where transverse slip-faults cross the shear zone. According to Perry the slip faults are also mineralized indicating that the shear and the slip faults are both pre-mineral. Perry also stated that he sampled a lense at the bottom of the winze and obtained an assay of 12 percent copper and over 100 ounces of silver. He did not know the extent of the mineral zone but the lense was  $1\frac{1}{2}$  feet wide and appeared to be widening in depth. It was dipping steeply to the north. Other such lenses higher up, contained galena, cerussite, anglesite and silver. The mine is reported to have produced a few small shipments of high grade lead-silver ore during the early 1900s. The vein matter consists of lamellar quartz in a cellular boxwork form. The angular vugs are lined by cerussite, chrysocolla, malachite, brochantite, siderite, ankerite, calcite and limonite. The silver was probably present as cerargyrite, although the galena specimens carried some sooty argentite (?). No copper sulphides were found. The galena lenses assay up to 50 percent lead and up to over 200 ounces in silver (Perry had 2 assay reports on this). He stated that the lenses were small and tended to break up into stringers.

Perry wants financial aid to develop deeper since he can obtain a lease on the mine.