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PRINTED: 07-27-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: TATE MANGANESE

ALTERNATE NAMES:
POLIANITE

MOHAVE COUNTY MILS NUMBER: 413C

LOCATION: TOWNSHIP 12 N RANGE 14 W SECTION 36 QUARTER E2
LATITUDE: N 34DEG 20MIN 37SEC LONGITUDE: W 113DEG 40MIN 13SEC
TOPO MAP NAME: ARTILLERY PEAK - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
MANGANESE OXIDE
CALCIUM CALCITE
BARIUM BARITE

BIBLIOGRAPHY:
USGS ARTILLERY PEAK MAP
USBM IC 7843, P. 28 (MAP), P. 50
ADMMR TATE MANGANESE FILE

Name of Mine or Prospect:	Township	Range	Section	Priority
Polianite Group	12N	14W	36	C
Principal Minerals:	1:250,000 Quad		7.5' - 15' Quad	
Psilomelane, Pyrolusite, Manganite	Prescott		Artillery Peak	
Associated Minerals:	District		Principal Product	
Calcite, Barite	Artillery Mtn.		Manganese	
Type of Operation:	County	State	Type of Deposit	
Surface: Open Pit	Mohave	Ar.	Sedimentary Host	

Ownership or Controlling Interest:
 State of Arizona, leased to Robinette (1955)¹

Access: From Brown's Crossing proceed north on Chapin Wash Road for 8.5 miles. Mine is not shown on topographic quadrangle.

Structural Control or Geological Association:

"The manganese deposits occur in comparatively narrow lenticular shoots along parallel fractures cutting the Sandtrap conglomerate. The chief manganese minerals in the various fractures are psilomelane, pyrolusite and manganite. The gangue consists of unreplaced fragments and pebbles of the wall rocks, black and white calcite and small quantities of barite."¹

Age of Mineralization:

Production History	Geochemical Analyses
(1954) ¹ 1600 long tons of ore	(1954) ¹ Assay average: 21% Mn.

References

1) Farnham & Stewart (1958) p. 50.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Tate Manganese Mine
District (Sec.36, Twp.12N, Range 14 West)
Subject: Artillery Mountains
General Conditions

Date April 13, 1953.
Engineer Geo. F. Reed

Location and General Conditions:

Earl Tate, Yucca, Arizona, has several manganese claims in Sec. 36, Twp.12 North, Range 14 West. These are near the road to where the Bureau of Mines drove their exploratory adits in the low grade Artillery Peak Manganese, and are about two miles West of the adit locations at a few hundred feet lower elevation. The claims are reached via the Alamo Crossing to Yucca Road and then over the Bureau of Mines road about $\frac{1}{2}$ miles to Tate's claims. They are about 7 miles by road from Alamo Crossing. The road is a winding, graded road. Ore has been trucked the approximately 50 miles to Wenden Depot for about \$5.00 per ton.

Geology & Topography:

Near the mines the country is mostly almost flat with steep sided canyons cutting through it. Canyons are 50 to 150 feet deep. Most of the rock is coarse sandstone and conglomerate with some overlying recent lavas. The ore being worked is in nearly vertical veins in the sandstones. The veins strike North-North-West and are quite persistent, but the ore-shoots are irregular. There are several parallel veins and these have only been prospected a little with pits and open cuts. Where better ore has been found, recent lessees L.W. Curry, 3524 Avenue J, Phoenix, and partner, R.B. Bayles, have been getting a little ore from open cuts. Between thirty and fifty tons have been shipped to Wenden. The individual shipments have run from 18 to 27% manganese. The veins widen in places to from 2 to 4 feet of ore of the above grades. Most of the length of the veins is narrow and low grade, as is the flat lying sandstone enclosing the veins. No water is available nearer than Alamo.

Recent developments:

Curry and Bayles are evidently through on the property. Tate has a man or two working on a split check basis on some claims to the South of the above described workings. The conditions are similar.

George F. Reed

See: RMO-679 Red Hill Claims, Sec.7, T. 11 N., R. 13 W.

See. I.C. 7843p 50 - Polianite Group. (seems to be the same as Tate Mang. card)

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