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PRIMARY NAME: GERONIMO CLAIMS

ALTERNATE NAMES:
BEARD CLAIMS
COCHISE GROUP

PINAL COUNTY MILS NUMBER: 366

LOCATION: TOWNSHIP 4 S RANGE 15 E SECTION 18 QUARTER SW
LATITUDE: N 33DEG 04MIN 43SEC LONGITUDE: W 111DEG 51MIN 34SEC
TOPO MAP NAME: HAYDEN - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:
MANGANESE

BIBLIOGRAPHY:
ADMMR U FILE
ADMMR FILES
FARNHAM, L.L. & OTHERS MANGANESE DEPOSITS OF EASTERN AZ, USBM IC 7990, P. 152-153
ADMMR GERONIMO GROUP FILE

The third vein, about 100 feet east of the middle vein, has been explored near the south end of its outcrop by an opencut approximately 100 feet long, 3 to 4 feet wide, and as much as 20 feet deep. From the face of the cut a drift follows the vein about 15 feet northwest. The higher grade ore, exposed in the face of the cut and along the drift, ranges from 2 to 6 inches in width.

Hard psilomelane, the dominant ore mineral, occurs in a gangue of manganiferous calcite and quartz.

Geronimo Group

Seven unpatented claims, known in 1942 as the Geronimo group are situated in secs. 18 and 19, T. 4 S., R. 15 E., some 15 miles by road and trail northwest of Winkelman, Ariz. (See fig. 17, p. 124.) The claims lie along the eastern base of the Dripping Springs Mountains, very close to the east-central boundary of Pinal County. The property may be reached by traveling 11 miles northwest from Winkelman on Alternate State Highway 77, then eastward 3.2 miles on a poor dirt road. From this point the deposits are about 1 mile due east and are accessible only on foot.

During World War II, the claims were held by Mrs. Kate Turner, of Winkelman, Ariz. When the area was visited in October 1956, Mrs. Turner could not be found, the present ownership of the claims could not be determined and the property was idle. As far as is known no manganese ore has been produced.

In 1942, the Federal Bureau of Mines collected a 2-ton sample of the ore from the more promising outcrops on the claims. This material was shipped to the Bureau's Salt Lake City laboratory, where ore-dressing tests were made to determine its amenability to concentration. The sample, containing 30.2 percent manganese, was found to be amenable to concentration by combined jigging and tabling; 81.6 percent of the manganese was recovered in a concentrate which, after sintering, assayed 48.9 percent manganese.

The deposits occur along zones of fracturing and brecciation cutting beds of the Gila conglomerate. Four parallel zones 50 to 200 feet apart crop out on the claims along the sides and top of a broad northerly trending ridge. The zones strike about N. 20° W. and dip steeply southeast to vertical. Although some fractures are traceable for well over 1,000 feet along the strike, the manganese ore of minable width and grade is found in widely separated lenses having exposed lengths of not more than a few tens of feet and widths up to about 4 feet. In some places the manganese oxides occur in fairly coarse aggregates and in other places as mere seams cementing the brecciated fragments of the conglomerate.

The exploratory openings are limited to a few widely scattered discovery pits and shallow opencuts. In the bottom of some deeper openings the mineralization appears to consist largely of manganiferous calcite.

The ore minerals consist chiefly of psilomelane and pyrolusite. The gangue is composed of calcite, quartz, and unmineralized wall rock.

In 1942, R. D. Beard, of Winkelman, held four claims adjoining the Geronimo group. The manganese mineralization on the Beard claims is similar to that on the Geronimo group.

Esperanza Claim

The Esperanza is a single unpatented claim on the west slope of the Sawtooth Mountains some 23 road miles south of Casa Grande in sec. 28, T. 9 S., R. 6 E. (See fig. 17, p. 124.) The property can be reached by traveling south from Casa Grande on the Covered Wells road 10 miles to a left-hand branch, south on this branch about 4 miles to a road fork, and south-southeast on the left fork 9 miles to the deposit.

The claim was located in 1954 by the present owner, Fred Andrade, of Casa Grande, Ariz. During that year, approximately 10 long tons of sorted ore containing about 34 percent manganese was shipped to the Government purchasing depot in Wenden, Ariz. The copper content of this ore exceeded 0.25 percent, the maximum allowable under the Government specifications, so the shipper was notified that no further shipments would be accepted by the depot. In 1956 a truckload of ore was mined from the deposit and sold to a private ore buyer in Casa Grande.

The ore occurs in lenses along a fracture cutting volcanic rocks. The fracture strikes N. 20° W., dips very steeply to the southwest, and is exposed about 300 feet along the strike. The ore lenses along the fracture range from several inches to 2.5 feet in width and from several feet to 60 feet in length. The more promising part of the outcrop has been explored along the strike by an opencut approximately 150 feet long and ranging from 3 to 9 feet in depth.

The chief ore minerals are psilomelane and pyrolusite. The gangue is composed largely of brecciated fragments of the wall rocks and black and white calcite.

Santa Rosa Queen

The Santa Rosa Queen group of two unpatented claims is situated on the Papago Indian Reservation in the west-central part of sec. 36, T. 8 S., R. 5 E., about 15 miles by road south of Casa Grande. (See fig. 17, p. 124.) The claims lie on a relatively flat desert valley bordering the southeastern side of the Silver Reef Mountains. They can be reached from Casa Grande by traveling south 10 miles on the Covered Wells road to a left-hand branch. This branch is followed south through White Horse Pass and the Indian hamlet of Shopishk about 4 miles to a right-hand fork, then southwest on this fork 0.5 mile to a right-hand branch which terminates on the property.

The claims were located in June 1955 by M. A. Armenta, A. Bussari, and Fred Andrade, of Casa Grande. No ore has been shipped. The work consists essentially of a discovery pit and a few scattered small opencuts.

The manganese minerals on the property occur in places along a narrow vein cutting a volcanic breccia. The vein strikes N. 25° E. and dips about

Pinal County — Arizona State

Property Name: Geronimo claims

Owner: Name Address Date

Mrs. Kate Turner (1942) Winkelman, Ariz.

Present owner unknown

Operator:

None

Production: None

Total _____ From _____ to _____

Present Rate _____ Per _____ Date _____

Source of Information: Summary Report Farnham #95

Chief Mineral Manganese No. 6

Accessory Minerals _____

Location: Secs.18,19,T.4S.,R.15E.,about 15 miles by road and trail northwest of Winkelman

4S-15E - [ ]

Status Date

USBM Report: File No. 467 Manganese, Summary Reports, Arizona

Classification: Prospect

(See other side for general information)

Geronimo claims, Pinal County, Ariz. Secs.18,19,T.4S.,R.15E.

Pinal County — Arizona State

Property Name: Geronimo Group

Owner: Name Address Date

Mrs.Kate Turner Winkleman,Ariz. 1941

Operator:

None 1941

Production:

Total None From _____ to 1941

Present Rate _____ per _____ Date _____

Source of Information:

Chief Mineral manganese No. Mn 6

Accessory Minerals _____

Location: About 10 mi. NW of Hayden,Ariz. Secs 18, 19, T4S, R15E

Status Date

Inactive 1941

USBM Report: File No. ~~462~~ 4642/346

Engineer: Harold B.Ewolt

Classification: Prospect

(See other side for general information) ✓

c/6

General Information: The zones strike N. 20° W. and dip steeply to the southeast. The zones are known for a length of 1,000 feet, a width of 1 to 4 feet, but a depth of only a few feet. No extensions are evident. The deposits were explored by a few shallow opencuts. A 2-ton sample taken in 1942 for Bureau of Mines metallurgical tests contained 30.2 percent manganese.

Character of Ore: Manganese oxides crop out in lenticular bodies along several brecciated zones in Gila conglomerate. Psilomelane and manganite are the chief ore minerals cementing the breccia fragments.

Equipment (Date 10/16/56): None

General Information: 1941

A series of 4 parallel veins traceable 1200' carry Mn. On 2 veins outcrops have been exposed by shallow cuts & a small stope. Except for one exposure 25' long & 4' wide from which samples were taken, no more were opened altho [redacted] prospecting was done over several hundred acres. Where cuts & pits were made Mn did not extent to any depth. Assays on the samples taken were not given.

[redacted]

[redacted] 7 unpatented claims.

Character of Ore:

1941

Equipment (Date 1941):

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