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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HUGHES PROSPECT

ALTERNATE NAMES:

GILA COUNTY MILS NUMBER: 139

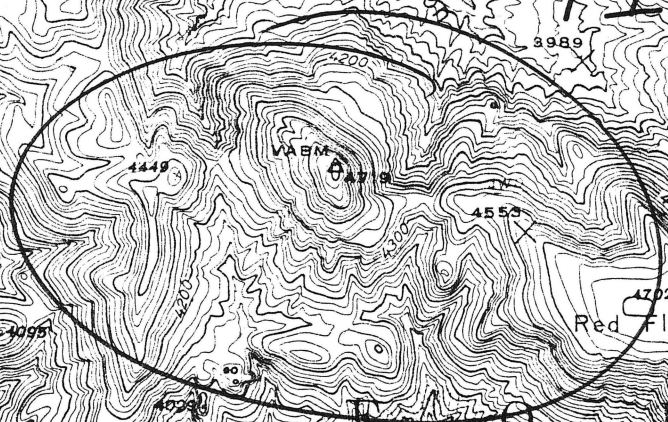
LOCATION: TOWNSHIP 1 N RANGE 14 E SECTION 18 QUARTER SW
LATITUDE: N 33DEG 25MIN 40SEC LONGITUDE: W 110DEG 58MIN 30SEC
TOPO MAP NAME: INSPIRATION - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
SILVER
IRON
MANGANESE

BIBLIOGRAPHY:
ADMMR HUGHES PROSPECT FILE

Hughes Prospect
T1N R14E SEC. 18



Onoprotation 7

HUGHES PROSPECT

GILA COUNTY
CASTLE DOME DISTRICT
T1N R14E Sec. 18

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

FILED
APR 9 1964

Mine "HUGHES" PROSPECT

Date APRIL 6, 1964

District CASTLE DOME DISTRICT, GILA COUNTY

Engineer LEWIS A. SMITH

Subject: Visit with Tom Shine and M. C. Pennell of Phoenix and a Conference with David Hughes, owner.

LOCATION: About 1 mile ^W of Castle Dome Pit and 1½ miles by bulldozer road north of the Horrell Ranch Road. (Approx Sec 18, T1N, R14 E) (unsurveyed)

CLAIMS: 2 unpatented

OWNER: David Hughes, Randolph (near Coolidge), Arizona.

MINERALS: Silver, Iron, Manganese.

WORK: According to Hughes, the principal work consists of a mostly caved 100-foot inclined shaft and two short adits (open). The adits are about 10 and 15 feet to the west from near the bed of a small sharp canyon. Minor stoping occurred along the south adit. Present work consists of making a bulldozer cut in the canyon bed to further expose the deposit along the fault strike.

GEOLOGY: According to U. S. Geol. Survey Bull. 971, the immediate geology consists of a segment of Paleozoic formations, (Troy quartzite, Martin limestone, Escabrosa limestone and Naco limestone) all of which have been cut by numerous faults most of which have trends W or SW. The Martin limestone, near the mine strikes nearly E-W and dips 25-30 deg. S. However, to the SE the bedding swings around so that it strikes NW and dips 40-65 deg SW. It is underlain by an extensive diabase sill. In places south of the deposit Troy quartzite lies between the diabase sill and the Martin. East of the Martin contact the diabase & Pioneer ^{formation} are intruded by a dike of Diorite porphyry whose course roughly parallels the Martin limestone-diabase contact. The deposit lies along a north trending fault that tends to horsetail at its north end. This fracture dips steeply east and the deposit apparently is terminated on the north by a rather poorly defined transverse fault. The deposit lens extends southward from the transverse fault for about 200 feet. The mineralized material replaces Martin limestone east of the N-S fault. It consists, west to east, of a hanging wall streak (4-6 inches wide, where exposed), followed by 1-6 feet of mixed bright red earthy hematite with boytroidal psilomelane bands. The hanging streak (4-6 inches), according to Hughes, runs up to 100 oz. of silver to the ton. He now plans to sample the hematite-psilomelane portion to determine if it is commercial. He stated that some of this material had been shipped years before but he did not know what it assayed. ^{It was} ~~He~~ also stated that the shaft was reported to have had similar replacement material at its bottom. The hematite-psilomelane material "feathers out", on its east border, into limestone. Most of the EW faults in the Paleozoic block are apparently, more or less, discontinuous, but are roughly parallel.

Essentially the deposit is a lenticular replacement band that decidedly varies in width. No evaluation of the deposits can be done without considerable sampling.

David Hughes brought in samples of siliceous copper ore from his property, near the Martinez Mine, Martinez Canyon. His assay sheet showed 87 per cent silica 1.76 oz silver, 0.01 oz gold to the ton and 3.86 per cent copper. He plans to ship to AS&R at Hayden, in the near future.

LAS WR 5/8/64