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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HORRELL RANCH IRON DEPOSIT

ALTERNATE NAMES:

GILA COUNTY MILS NUMBER: 121

LOCATION: TOWNSHIP 1 N RANGE 13 E SECTION 3 QUARTER C
LATITUDE: N 33DEG 27MIN 15SEC LONGITUDE: W 111DEG 00MIN 55SEC
TOPO MAP NAME: HAUNTED CANYON - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
IRON HEMATITE

BIBLIOGRAPHY:
ADMMR HORRELL RANCH IRON DEPOSIT FILE

04/17/97

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine HORRELL RANCH IRON DEPOSIT Date APRIL 6, 1964

District PINTO CREEK DIST., GILA COUNTY Engineer LEWIS A. SMITH

Subject: Mine Visit with T. A. Shine and M. C. Pennell, 1106 W. Culver (254-8080) Phoenix.

LOCATION: W branch of Pinto Creek, 1½ miles W of its junction with Pinto Creek and 1 mile SW of Horrell's Ranch (Approx Sec 35, T2N, R13E)

OWNER: Horrell Ranch (Earl Horrell, Pinto Creek)

WORK: One shallow surface cut.

MINERAL: Hematite.

GEOLOGY: The mine vicinity is mainly composed of Mescal Limestone. (Apache Fm - Precambrian). This is underlain by a diabase sill, that apparently lies between the algae member and the lower member. The lower part of the Martin has been partly replaced by a bed of black hematite and that, as exposed, ranges from 1 to 6 feet thick which caps a low ridge. The exposure of hematite is no more than 600 feet long and up to 30 feet wide. The ridge is a fault block and the iron bed indicates a dip of about 40-45 degrees to the SE. To the NE of the NE fault, the iron-bearing bed has been eroded away. To the SW of the fault block a continuation of the iron bed, though present, outcrops only sparingly. The hematite bed is underlain by a relatively thin zone of limestone that is variably serpentinized. The hematite bed, while essentially spongy hematite, is not a complete replacement, having some areas where relict limestone is more prevalent than in others. The reserve, as far as iron ore is concerned, is small. Samples of this ran about 56 per cent iron with minor sulphur and a trace of phosphorus.