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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HICKORY CLAIMS

ALTERNATE NAMES:

PIMA COUNTY MILS NUMBER: 728

LOCATION: TOWNSHIP 11 S RANGE 4 E SECTION 36 QUARTER SE
LATITUDE: N 32DEG 25MIN 39SEC LONGITUDE: W 111DEG 54MIN 53SEC
TOPO MAP NAME: SANTA ROSA MOUNTAINS - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

COPPER OXIDE
COPPER SULFIDE
SILVER

BIBLIOGRAPHY:

ADMMR HICKORY CLAIMS FILE
POSSIBLY ALSO IN T11S-R4E SEC. 35

08/22/86

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Hickory Claims

Date May 18, 1960

District Santa Rosa Dist., Pima County

Engineer Lewis A. Smith

Subject: Interview with W. R. Dudley, 6515 N. 3rd Avenue, Phoenix. (Consulting geologist for Saddleback Corp. of Toronto, Canada)

Location: North end of Santa Rosa Mountain and 6 miles south ~~or~~ or a little west of the Lakeshore mine. (T11S, R4E, approx. S-35-36)

Property: 6 unpatented claims

Access: 12 miles by dirt road northeast of Santa Rosa

Mineral: Copper and silver. Several 30-40 foot diamond drill holes.

Work: Work consists of several pits and location shafts. Dudley mapped the area last year.

Geology: The area is similar in most aspects to that in the immediate vicinity of the Lakeshore and Slate claims to the northwest. The mineralized area lies between an andesite porphyry on the west and a granite rock (probably monzonite) on the east. The intervening band of material consists of chlorite, epidote, calcite and brecciated highly altered tactite. The values are partly disseminated and partly in a series of veins which roughly parallel the long axis of the tactite mass. The trend of this axis is NW-SE. It comprises an area 1200 feet long and up to 600 feet wide. The copper minerals are malachite, azurite, chrysocolla with considerable chalcocite. The chalcocite occurs in relic (residual) pods in the oxidized ore, and it is locally partly converted to cuprite and melaconite. Assays in the drill holes, pits and cuts run up to 35% copper but the average was around 4%. The vein samples indicated about 6-8% of copper and 11 ounces of silver. The higher grade copper ore runs up to 30 ounces of silver.

Mr. Dudley recommended several deeper diamond drill holes to determine, if possible, if a deep enrichment zone for both copper and silver might exist below, on suspected older geological water level stop. He stated that in view of the existence of old Tertiary lake deposits in the Santa Rosa Valley, such an old level seemed probable. The second factor, which could influence the value of the deposit, would be to determine the degree of oxidation and depth of oxidation, since the metallurgical process which would be used would be determined by the sulphide-oxide ratio and the calcite content of the ore.