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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: ELLIS VEIN

ALTERNATE NAMES:
MADERA PROSPECTS

GILA COUNTY MILS NUMBER: 96

LOCATION: TOWNSHIP 1 S RANGE 14.5E SECTION 19 QUARTER NW
LATITUDE: N 33DEG 20MIN 03SEC LONGITUDE: W 110DEG 52MIN 42SEC
TOPO MAP NAME: PINAL RANCH - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
COPPER
MOLYBDENUM

BIBLIOGRAPHY:
USGS PINAL RANCH QUAD
PETERSON N P GEOL OF PINAL RANCH QUAD USGS
BULL 1141-H 1963 P H14
SEE: ADMMR BEAR CREEK MINING CO FILE
ADMMR ELLIS VEIN FILE

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Ellis Group & Madera Prospects

Date Feb. 25, 1964

District Midway District - Gila County

Engineer Lewis A. Smith

Subject:

Location: Secs. 13-14, 21-23, T1S, R14E

Property: The ore now leased or staked by Bear Creek Mining Co. includes the Ellis Group and Madera Prospects and several claims of their own.

The total number of claims is not known.

Work: In 1948, 5 holes were drilled on the Madera Prospects and some work was done on the Ellis vein at the extreme eastern end of this ground.

Part Owner & Lessee: Bear Creek Mining Co. (Kennecott) and W. E. Ellis, of Globe (Ellis Group).

Minerals: Copper and some molybdenum

Geology: According to Nels Peterson, USGS Bull. 1141-H, the claims cover an area that consists essentially of a neck of Pinal schist that separates a mass of Schultze granite on the north from another mass of Madera diorite on the south. The Madera Diorite and schist are both cut by Schultze granite porphyry dikes. The schist is mineralized essentially by iron (pyrite) with some copper as chalcopryrite and chalcocite that coats the pyrite and chalcopryrite. Three of the drill holes in the Madera Prospects penetrated through the usual zones characteristic of a typical disseminated sulphide deposit that has undergone weathering, an oxidized and partly oxidized zone of chalcocite enrichment which gradually grades downward into a primary sulphide zone (portore). The test sections showed a total length 125 feet that assayed 0.42 percent copper, whereas, the remaining 1000 feet of length averaged 0.14 percent. Peterson concluded that although the deposit cannot now be regarded as ore its total volume of mineralized material contains a large amount of copper. The other two holes showed disseminated sulphides throughout their lengths, of fairly even copper content, and slight replacement of sulphides by chalcocite. The leached capping indicates a preponderance of iron (pyrite) but locally, where the veins are stronger and more numerous, copper (oxidized) and limonite show more abundantly. Ref.: USGS Bull. 1141-H (1963) p. 14

BEAR CREEK MINING CO.

Mr. Simmons reported that Bear Creek Mining Co. has optioned the Ellis and Santa Ana mines and has laid out several additional claims. This area lies 2-3 miles south of '60-70 Highway from a point immediately south of the Castle Dome road junction. It is believed that they will be doing preliminary studies shortly. Memo LAS 9-27-63

It was learned that Bear Creek Mining Co. was still drilling in early October on their prospecting permit ground near Mineral Butte. Memo LAS 10-23-63

Interviewed Woody Simmons, chief geologist, Miami Copper. Learned Kerr-McGee finished drilling on Madera Mtn., Santa Anna and Ellis properties. They are now drilling southeast of Oak Flats about 3 miles east of Superior. The Smith Drilling Co. of Lubbock, Texas is doing the drilling with failing drills. Learned from Bert Reed of Inspiration that Kerr-McGee drilled out about 17,000,000 tons of 0.4% copper on Madera Mountain. EGW WR 11-27-64

Thomas N. Walthier, district geologist, southwest district, Bear Creek Mining Co., testified at 1961 Wilderness Hearing: "At least one silver-copper occurrence of large extent although of presumed low tenor is known north of the Verde River in the vicinity of Rock Creek." This is in the Mazatzal Wilderness area. FPK 4-14-64
