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Taken from NBMG OFR 81-4 (1981) See also 81-3 for geochemical results.

Elko Co. Item 19

Black Mountain Area

The Black Mountain Area is located about 18 miles northeast of Wells. Prospects are found on the east and southeast flanks of Black Mountain, a north-south trending ridge in the northern Windemere Hills. Mining activity has been centered in two areas in Sections 2 and 10, T39N,R64E. Trenches, pits, and shallow shafts are old, and explore gossanous jasperoid ores in breccia cover in limestone. Barite and calcite form cementing material in the breccia. Galena was noted present at all sample localities. No activity was noted at the time of the examination.

Rocks exposed in the area are mainly sediments of Devonian to Permian age. Dolomites of the Simpson and Sevy Formations are overlain by limestones of the Guilmette or Devils Gate Formation. Mississippian rocks are present as fault segments, and Permian rocks flank both sides of the main ridge that forms Black Mountain. According to Smith (1976) Permian rocks to the west of the ridge comprise the remnants of the upper plate of a thrust fault. No igneous rocks have been mapped in this locality.

Samples of jasperoid and sulfide-bearing material from prospect dumps showed trace amounts of silver to be present. Samples also shwoed anomalous geochemical values in lead, zinc, cadmium, strontium and barium.

Selected References:

MILS, Wells AMS File (1979) U.S. Bureau of Mines.

Smith, R. M. (1976) Mineral Resources of Elko County, Nevada.

U.S. Geol. Survey Open-file Rpt. 56.