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PROPERTY NAME: New Tempiute MineOTHER NAMES: EmersonMINERAL COMMODITY(IES): W, Ag, F, Zn, BiTYPE OF DEPOSIT: SkarnACCESSIBILITY: See map, access road paved, however, roads blocked by chains and fences.OWNERSHIP: Union Carbide, Minerals DivisionPRODUCTION: For district, in excess of \$15 million.HISTORY: Area staked 1916, production recorded 1937 and 1940's, mill constructed 1939, site deserted 1958, Union Carbide assumed control scheelite deposit 1958 employing 200 people.DEVELOPMENT: Complete mining operation from initial recovery of ore to final milling.ACTIVITY AT TIME OF EXAMINATION: Underground blasting, developmental work, no active production, site employs 32 people, outlying areas staked and drilled recently by unknown persons.

GEOLOGY: Mine is southern most working of Union Carbide property. Working is open pitted skarn zone where a minor Tertiary granitic body intruded Mississippian carbonate beds. The adit shown on the map was probably a limestone cave, the innermost extent now exposed in the pit face. Only minor remnants of the skarn zone remain exposed along 3-5 benches. On the east and west sides tongues of the granite body extend into the limestone unit and are argillically altered, bleached, heavily iron stained with the limestone hornfelsic along the contact. Skarn minerals include garnet, pyrite, bismuthite(?), pyrrhotite, chalcopyrite, sphalerite, fluorite, calcite, and wollastonite. The iron-rich sulfides are altered to a greenish-clay material resembling notronite. The Mississippian limestone unit is dark grey, coarsely crystalline, massive to thick bedded, and generally striking north-south. The face in the pit exposed intersecting high and low angle faults striking NW and SW. The western edge of the skarn zone is more gossany/limonitic stained and exhibits a greater degree of hydrothermal alteration with much slag-like appearing material. Massive white quartz vein with abundant open spaces carrying oxidized pyrite grains and ghosts cuts both the limestone and skarn zone. Very fine tremolite crystals are intergrown in the limestone. Massive (up to several feet wide) veins/clots of crystalline calcite/siderite/manganosiderite occur in the limestone. Locally, the limestone is silicified near and adjacent to the quartz veins. Workings east of the open pit near the saddle include another small, rather deep and narrow open pit which excavated ore along the contact of the intrusive and the skarn zone. The pit is over 100 feet deep and dogleg shaped. Iron-stained hornfelsic limestone with intrusive is exposed to the west with the limestone beds dipping away from the intrusive. Within the pit is a pyritic stained skarn zone 10-20 feet wide. Shearing within the pit parallels bedding. Black shales were observed on the dumps, but not in outcrops.

REMARKS: Sample Site 1452, 1453, 1454REFERENCES: NBMG Bulletin 73EXAMINER: SMITH / BENTZCounty: LincolnMining District: TempiuteAMS Sheet: CalienteQuad Sheet: Tempiute, 15'Sec. 6, T 4S, R 57E

Coordinate (UTM):

North 4 1 6 5 5 2 5 mEast 0 6 2 1 0 5 0 mZone +11DATE VISITED: 10/3/83