

4790 0016

PROPERTY NAME: Tempiute Property

OTHER NAMES: includes Schofield, Lincoln (Emerson) Mines, Wah Chang

MINERAL COMMODITY(IES): W, Mo, F, Cu, Zn, Ag Pit.

TYPE OF DEPOSIT: Skarn, Vein

ACCESSIBILITY: See map, access road paved, most roads blocked except road to main office area.

OWNERSHIP: Union Carbide, Minerals Division

PRODUCTION: Total for district in excess of \$15 million

HISTORY: Claims first staked 1916, production recorded 1937, 1940's, mill const. 1939, site deserted 1958, Union Carbide assumed control 1958, production coincident with tungsten market.

DEVELOPMENT: Complete mining operation from initial recovery of ore to final milling, site more developed than indicated on maps and literature.

County: Lincoln (176)
Jan 19

Mining District: Tempiute

AMS Sheet: Caliente

Quad Sheet: Tempiute 15'

Sec. 25,30 T 3S R 56,57E

Coordinate (UTM): *See note below.

North * 4 1 6 7 8 5 10 m

East 0 1 6 1 2 10 19 15 10 m

Zone +11

ACTIVITY AT TIME OF EXAMINATION: Site currently not producing, however, development work is on going with Union Carbide employing 32 persons, underground blasting, ore from being stockpiled.

GEOLOGY: Due to the volume of literature available on the Tempiute tungsten mines, only limited field observations are noted here. On the day the Union Carbide property was visited, Mr. David Hjelstron, site geologist, was kind enough to conduct a guided tour of the properties under Union Carbide's control. At the time, no active production was on going, however, there was underground blasting in the vicinity of the Lincoln Mine, and ore was being removed from the upper workings on the property to be stockpiled near the northern end of the property. According to Mr. Hjelstron, ore grades are not reportable nor are they being published. While a significant amount of molybdenum occurs in both the tactite and quartz veins, it is not produced since a separate extraction is required and is not economically feasible. Also, white fluorite and sphalerite also occur, the high degree of impurities prevents successful mining. Generally, mineralization in the area results from a quartz monzonite (Tertiary) body intruding Mississippian-Pennsylvanian carbonate and clastic formation. Hornfels zones adjacent to the intrusive are generally barren while garnet-pyrite skarn zones produced mineable scheelite. Samples 1455 and 1456 were taken from the upper and lower accesses of the Schofield Mine in the Moody Tactite Zone. Sample 1457 A & B taken from the Wah Chang Pit (originally owned and operated by I.P. Lee). Most of the tactite has been removed leaving massive quartz veins (which carry moly) and exposes carbonate beds dipping away from intrusive. Union Carbide now uses the pit for storage. At the Lincoln (Emerson) Mine, lamphyphyre and aplite dikes cut intrusive, tactite and carbonate rocks. Samples 1458 A&B and 1459 taken from the Lincoln Mine. Here both the Grubstake and Moody Tactite Zones (the main ore bodies) are exposed, separated by a thin septum of Guillemette Limestone and Pilot Shale. First occurrence of copper (malachite) noted coating rocks. Sample 1460 taken from ore stockpile near main office and represents a composite of available ore. Huge leachpads have been constructed northwest of site.

REMARKS: *Due to the size of Union Carbides's holding, the UTM for the property is the main office.

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| 1455 | 4165775N | 0621350E | S6 | 4S | 57E |
| 1456 | 4165660N | 0621000E | S1 | 4S | 56E |
| 1457A | 4166900N | 0621200E | S31 | 3S | 57E |
| 1457B | 4166900N | 0621200E | S31 | 3S | 57E |
| 1458A | 4166350N | 0620750E | S36 | 3S | 56E |
| 1458B | 4166350N | 0620750E | S36 | 3S | 56E |
| 1459 | 4166750N | 0620890E | S36 | 3S | 56E |
| 1460 | 4167850N | 0620950E | S25/30 | 3S | 56/57E |

REFERENCES:

EXAMINER: Smith/Bentz

DATE VISITED: 10/3/83