3570 0004

Lincoln Co. General Item 30

PROPERTY NAME: Culverwell Adit

OTHER NAMES:

MINERAL COMMODITY(IES): Cu, W?, Fe

TYPE OF DEPOSIT: Contact metasomatic, replacement

ACCESSIBILITY:

OWNERSHIP:

PRODUCTION:

HISTORY:

County: Lincoln

Mining District: Pennsylvania

AMS Sheet: Caliente

Quad Sheet: Ella Mtn. 7 1/2'

Sec. Unsurv., T 6S, R 67E

Coordinate (UTM):

North 4 1 4 2 7 6 0 m

East 0 7 2 3 7 3 0 m

Zone +11

DEVELOPMENT: S30E-trending adit recently demolished by trenching & scraping in drainage area. Remains of track near portal. Prospect above adit is caved shaft inclined about 40°NE.

ACTIVITY AT TIME OF EXAMINATION: None, but trenching probably done in last 5 years or so.

GEOLOGY: Shaft begins in dark grey (weathered), massive beds of Cambrian(?) limestone. The beds are shallowly inclined or horizontal. The shaft is inclined along an Fe-stained, silicified, gossan replacement zone which strikes N60W & dips 70NE. Mineralized dump rock is red-black, very dense & composed almost wholly of magnetite. Magnetite also occurs in calcite-veined tactite & as replacement pods in the limestone. Limestone waste rock shows various types of alteration including silication, marbelization & replacement or staining by Feoxs (gossan).

Sample 1707 is of replaced limestone collected from bulldozer trench in drainage below adit. The rock is banded, very dense & contains lenses & veins of calcite & oxidized pods & crystals of magnetite, Cuoxs, pyrite & chalcopyrite. The sample was lamped & only two, very fine specks of scheelite were observed.

Rock exposed in bulldozed trench consists of a sequence of white medium-coarsely crystalline marble, epidotized monzonite-diorite intrusive rock & banded, light & dark green tactite. Contact of intrusive with limestone is not well exposed. Best guess on orientation of contact is NE-SW. Weathered, chloritically altered intrusive outcrops at bottom of trench just NW of adit. The rock has Fe-stained fractures & carries a small amount of oxidized pyrite. Silicated rocks are also exposed along segment of road between Carson Spring & workings, indicating area underlain by tactite extends beyond that observed at this locality & sample location 1706. Small, dike-like exposures of altered intrusive rock at minesite tends to support description of geology of "numerous mafic dikes" given in USGS Map (Tertiary Rocks, Lincoln Co.) as opposed to the diorite stock shown on Co. map.

Several types of volcanic rocks, including andesites, spheriolitic rhyolites, & tuff were observed as float in the area. The volcanics overlie that Paleozoic rocks both S & E of minesite.

REMARKS: Sample 1707.

Note * Rattlesnake Condo

REFERENCES: USGS Map I-1041
NBMG Bull. 73.

EXAMINER: Bentz/Smith

DATE VISITED: 9/13/83