

55 70 0043

PROPERTY NAME: Open pit Pennsylvania Mine

OTHER NAMES: \_\_\_\_\_

MINERAL COMMODITY(IES): Cu, Ag, Au, BA?

TYPE OF DEPOSIT: Epithermal vein, fault, breccia zone

ACCESSIBILITY: \_\_\_\_\_

OWNERSHIP: Westward Energy & Resources Inc.

PRODUCTION: \_\_\_\_\_

HISTORY: \_\_\_\_\_

Lincoln Co. General  
County: Lincoln Hom 34

Mining District: Pennsylvania

AMS Sheet: Caliente

Quad Sheet: Ella Mtn. 7½'

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

Coordinate (UTM):

North	4	1	4	3	5	4	0	m
East	0	7	2	3	4	9	0	m
Zone	<u>+11</u>							

DEVELOPMENT: Property contains small, shallow open pit mine & stockpiles of reworked dump material from other minesites in district. Fairly modern crushing & sorting equipment. Old charcoal kilns (smelters), several leach(?) ponds in drainage & canisters of sodium sulfide at site. Several core boxes in shed indicate property drilled in the past.

Activity at the time of examination: Open pit operations looks about 2-5 years old. Equipment is modern, but no sign or current activity. Orange flagging on outcrops at west edge of pit indicates property was sampled recently.

Geology: Open pit mine consists of a broad area of shallow surface scraping located along road just south of building shown on map. Best exposure along western edge of pit. Here an outcrop about 15' in height and several 10's of feet in width is composed predominately of sheeted quartz veins & quartz-cemented breccia which was emplaced along shear zone.

Intervening wallrock fragments & lenses consist of altered andesite (?mapped as tuff, Miocene Ash-flow rocks highly altered feldspars are altered to clay) & some conglomerate or fine-grained clastic fragments also. \*The quartz in outcrop is light green to tan to grey in color, sugary to massive in texture & characteristically vuggy with some gossany portions. The vugs are filled with euhedral prismatic quartz which is highly Fe-stained. Fissure type banding is common as is quartz after calcite textures. Some coarse white calcite vein also present. The remnant host rock is thoroughly kaolinized & silicified.

Most of the veins are sub-parallel with a general N-NW strike & shallow E-NE dip. The outcrop is sheared(fractured) both parallel & at a high-angle to the sheeted vein system. The dominant NW shearing & veining reflects a major NW-striking, 30°E dipping fault which bounds the inferred southern limit of the Caliente Calderon Complex (see USGS Map). Some veins & veinlets which crosscut this orientation are also present.

Core boxes are stored in a building north of the open pit. At least 13 holes are represented, with maximum depths between 100-150'. Most of the core we examined consists of propylitized, kaolinized or silicified greenish, phenocryst-rich andesite(?) which is cut by stock works of white to clear, prismatic quartz. Location of drill holes are not known, but many are probably from site of open pit or from other parts of the district where trenching is evident (see field map)

Sample 1705 was collected from within the open pit & consists of quartz vein & quartz vein andesite breccia containing clots, discrete crystals & surfaces coatings of partially oxidized pyrite, chalcopyrite, malachite, azurite & brochantite. The sampled vein material is characteristically dark grey in color, indicating it contains a significant amount of dispersed sulfides. (Agmins?) Within the dark, finely crystalline quartz there are scattered fine-grained clots of visible gold. The Au-bearing samples are coated by abundant Cuoxs & less abundant Feoxs.

\* Fragments of quartz vein recemented by white quartz also observed, indicating multiple veining & brecciation. Sample 1705.

REFERENCES: USGS Map I-1041

EXAMINER: Bentz/Smith

DATE VISITED: 9/13/83