4680 0016

PROPERTY NAME: Peterson Pit

OTHER NAMES:

MINERAL COMMODITY(IES): Sulfur

TYPE OF DEPOSIT: Hydrothermal - Hot Springs

ACCESSIBILITY: Good road access

OWNERSHIP: On patented claims; ownership unknown

PRODUCTION: Tonnage unknown; mostly for agriculture.

HISTORY: Productions of screened sulfur at some time prior to 1966.

(B3) Item 17

County: Humboldt

Mining District: Sulphur

AMS Sheet: Lovelock

Quad Sheet: Sulphur 7 1/2'

Sec. Unsur. 25, T 35N, R 29E

Coordinate (UTM):

North 4 5 2 5 8 0 0 m

East 0 3 5 9 3 5 0 m

Zone

DEVELOPMENT: Northeast-trending pit about 500' long, 100' wide, and up to 60' deep.

ACTIVITY AT TIME OF EXAMINATION: None.

GEOLOGY: The pit is near the northeastern end of the District. Unlike most sulfur areas in this district, the sulfur here occurs in the vicinity of the fault zone that separates mostly sedimentary rocks (Tertiary) on the west from volcanic rocks on the east.

The sulfur occurs on fractures surfaces and impregnating altered rock in the vicinity of a shear zone that dips about 75°NW and in the central part of the pit, strikes N50E. Most of the northwest (hanging wall) side of the shear zone is tilted gravel beds, suggesting that there was recent activity along this fault zone. The host rock appears to be a tuffaceous volcanic rock but most of the rock is extensively altered to opal, quartz, and cristobalite. The sulfur-bearing zone probably is as much as 20' wide and is estimated to consist of up to 1/5 sulfur.

REMARKS: Sample 2710 is sulfur-bearing rock; 2711 is opalized rock; and 2712 is altered and brecciated rock.

REFERENCES:

EXAMINER: Keith G. Papke

DATE VISITED: 9/11/84