3070 0044

(282)

PROPERTY NAME: Keystone Mine

OTHER NAMES: Nevada Keystone Mine

MINERAL COMMODITY(IES): Silver, lead, zinc, copper, gold, W

TYPE OF DEPOSIT: Vein

ACCESSIBILITY:

OWNERSHIP:

PRODUCTION: 1700 tons, 1937-43, av. 32.5 oz Ag, .04 oz Au

HISTORY: Located in 1872, not recorded production before 1937.

County: Pershing Nem 45

Mining District: Central

AMS Sheet: Lovelock

Quad Sheet: Cosgrave 7½'

Sec. 12, T 34N, R 34E

Coordinate (UTM):

North 4 5 2 1 7 4 0 m

East 0 4 0 6 0 8 0 m

Zone +11

DEVELOPMENT: Tow shafts, older to the east has headframe, hoist house, large open cuts on vein system, newer shaft to SW, cuts and prospect shafts extend to the NE.

ACTIVITY AT TIME OF EXAMINATION: None, evidence of recent diamond drilling.

GEOLOGY: Western (new) shaft sunk on N-S trending white quartz vein in shale, wall rock is moderately silicified, laced with quartz-sulfide veinlets. At the old shaft to the NE, a N30°E, 40°SE dipping quartz vein occupies a shear zone in kaolinized granodiorite. Vein is 1'-2' wide, iron and manganese oxide stained, vein contains galena, sphalerite, tetrahedrite in white quartz gangue. Parallel quartz veins cut both granodiorite and shale, granodiorite is generally kaolinized and laced with quartz veinlets, some quartz on the dump displays pale green staining, shear zone is 200'-300' wide, both old and new shafts are within the zone, vein system seems to be stronger where it cuts granodiorite. To the northeast, at sample site 2656, old pits, shafts, cuts expose a series of N60°-75°W, NE-dipping quartz veins which cut hornfels and shale. The veins are 4'-15' thick, are brecciated and are iron-oxide stained on outcrop. Vein material on some of the dumps contain pods of massive pyrite. The hornfels wall rocks are bleached, kaolinized, contain disseminated pyrite. Vein material contains sphalerite, galena, some tetrahedrite and stibnite.

REMARKS: The Keystone mine must have been worked in the 1870-80's, evidence of old buildings can be seen in the wash east of the old shaft. Remains of an old horse whim can be seen at the northeastern workings.

Sample 2654, 2655, 2656

REFERENCES: Stager, H.K., (in prep.) Tungsten Deposits of Nevada, NBMG Bull.

EXAMINER: J.V. Tingley

DATE VISITED: April 19, 1985