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UNITED STATES BUREAU OF MINES

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Item 5

PRELIMINARY EXAMINATION REPORTState Nevada County Elko Mineral Products Pb-Zn AgName of property Rip Van Winkle MineOwner Rip Van Winkle Cons. Mining Co. Address P. O. Box 1650, Salt Lake City, Utah
(Offices in the Kearns Bldg.)~~XXXXXXXXXX~~
Operator Same as above Address _____Location S15, T37N, R53 E

Sampling: Exploratory project was conducted on property which indicated reserver, since mined, to average 11.3% lead, 5.7 % zinc.

History and production Ore discovered in district in 1860's and mining has since been carried on intermittently. Property was operated by Alaska Improvement Co. and by lessees prior to purchase in 1939 by the present owners and operator. Production to 1939 reported to be \$70,000 metal values. Production by present operator has been 420,512 ounces silver, 3,075,595 pounds of lead and 2,306,460 pounds of zinc. 1942 production was 12,000 tons mined from 600 vein and estimated to average 6% lead, 4% zinc and 13.9 ounces silver. Mining operations were curtailed in February 1943 and work limited to development.

Type Deposit (Geology) According to T. S. Lovering the main rocks exposed by the mine workings are cherty shale, granite porphyry, intrusive breccia, and shale breccia. Most of the ore is localized along branching premineral faults, in part as veins that represent filled fissures and in part as a replacement of the country adjacent to the veins. The ore zones follow a narrow, broken down faulted NS syncline. The main fissure strikes slightly W. of N. and dips west in its productive portion above the 600 level which is the eastern limb of the broken syncline. Late premineral movement broke the main fissure along several ~~mine workings~~ branch slips, dropping the eastern side in a step fault fashion. This movement broke the main fissure sharply in the ground in the southern part of the 500 foot level, by a strong NE dipping branch fault. South of this branch fault, the main fissure has been filled with vein material, called the "600" vein. Although a minor amount of post-ore faulting has taken place, the fracture pattern is believed to be essentially the same now as when mineralization occurred. Most of the ore was deposited along major faults where openings have been created by late mineral movement. Commercial values of metal occur as sphalerite and galena with silver more closely associated with the galena.

Mining Workings: The mine has been explored and developed by approximately 1,000 feet of shafts, raises and 3,500 feet of drifts, and crosscuts in seven levels. Levels are spaced at about 110, 190, 300, 400, 500, 600 and 700 feet below the collar of the old shaft. The 300 level is an adit and has been the main working and was used as the haulage-way for ore produced from lower levels. A 4 x 6.5 foot, 2 compartment 80° W. inclined shaft had been

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Lessee or
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Location _____

History and production

Type Deposit (Geology)

Mine Workings (Continued) sunk from the 300 foot level to the 600 foot level with stations at 400 and 500 feet. The 700 ft. level has been driven from a winze sunk on the 600 ft. level. A drift runs N. from the winze, 70 feet below the 600 ft. level.