2930 0015

(200)
Item 17

SW-1-3
(Ag, Au,
Pb, Cu, W)

AREA: LUCKY BOY (Part of Hawthorne District)
(silver, gold, lead, copper, tungsten)

T. 7 N., R. 28, 29 E.
Mineral County, Nevada
U.S.G.S. Powell Mountain, Nevada quadrangle
1:62,500

GENERAL BACKGROUND

The Lucky Boy area includes that portion of the Hawthorne mining district containing the Lucky Boy mine and townsite and the east flank of the southern Wassuk Range from Corey Creek Canyon to Alum Creek Canyon about 5 miles southwest of Hawthorne, Nevada.

Mineralized veins were first discovered in 1906 by men who were repairing the Hawthorne-Bodie stage road. The largest of these veins called the Lucky Boy vein produced gold, silver, copper, and lead. The claims covering the Lucky Boy vein were early acquired by the Goldfield - Alamo Mining Company which leased the properties for development. Development continued through the early 1900's and consisted of a 950 foot shaft, a 6,400 foot long adit, several shallower shafts, and about two miles of underground workings. A 125-ton floatation mill was constructed in 1926 near the portal of the 6,400 foot long adit.

GEOLOGY AND TECHNICAL DATA

The geology and mineral deposits of the Lucky Boy area are described by Hill (1915). In general a series of metamorphosed, light-colored, thin-bedded, slightly cherty limestones with associated calcareous sandstones and dark shales, are intricately intruded by a light to medium gray granodiorite. The granodiorite is cut by basic and aplitic dikes.

The Lucky Boy vein occurs in an irregular fracture zone which strikes N 80° - 85° E and dips 65° - 75° S. The fracture zone lies near the contact of the metamorphic limestone and intrusive granodiorite and, in general, follows the contact.

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The vein ranges from 4 inches to 8 feet in width and contains small lenses and large shoots of galena, tetrahedrite, sphalerite, and pyrite. The highest grade ore which carries 2,000 to 3,000 ounces of silver per ton occurs as 1 to 10 inch thick veinlets and consists of light-colored tetrahedrite in a matrix of quartz and barite. Medium grade ore carries 50 to 400 ounces of silver per ton and consists of fine-grained galena and tetrahedrite with some pyrite. This ore occurs in bands up to 18 inches thick and in quite large bodies (Hill, 1915).

Another of the active mines in the Walker Planning Unit is located about three miles west of the west edge of the Lucky Boy area. The Hawthorne Silica Company mine located in the NW 1/4 Section 34, T. 7 N., R. 29 E., is producing silica from a milky quartz body in a granodiorite host. The deposit is about 1,300 feet long and 350 feet wide and forms a high, west-northwest-trending ridge. The quartz is well-fractured but contains few inclusions of foreign materials. One surface sample reportedly contained 99.6 percent SiO_2 (Archbold, 1966).

This deposit is an isolated occurrence of silica, however, and holds little potential for other mineralization. The remainder of the area appears to be barren granodiorite and for this reason the undiscovered speculative area identified in this report as the Lucky Boy area does not include the active silica mine.

CURRENT ACTIVITY

Except for the Hawthorne silica mine, there are no known large scale exploration or development programs being conducted at present in the Lucky Boy area.

Numerous claims, however, are recorded in the county records and annual assessment has been maintained for many of them.

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ACCESS

The well-maintained gravel road over Lucky Boy Pass and the Corey Creek Canyon road afford ready access from Hawthorne to the Lucky Boy area. The southern portions of the area may be reached by unmaintained roads leading from Route 31 up North and Alum Creek Canyons.

PRODUCTION STATISTICS

Recorded production is mainly from the Lucky Boy mine which is patented. Little, if any, is probably attributable to national resource lands.

Hill (1915, p. 151) reports: "From 1907, when the veins of the Lucky Boy were discovered, to 1911, inclusive, 13,968 tons of ore have been mined from these veins, carrying $21,387 in gold, 1,770,279 ounces of silver, 54,206 pounds of copper, and 2,982,041 pounds of lead, having a total value of $1,076,235."

No total production figures for the Hawthorne silica mine west of the Lucky Boy area are known but the net proceeds for mines assessment recently recorded with the State of Nevada by Hawthorne Silica Company whose soul property is the silica mine show recent production. For the periods ending 12/31/74 and 6/30/75 Hawthorne Silica records net proceeds of $40,671.91 and $12,049.57 respectively.

POTENTIAL FOR DEVELOPMENT

Past mining activities indicate valuable minerals occur in irregular, sporadic, shoots and pockets in veins and fracture zones. The potential exists for the discovery of similar type deposits which generally lend themselves to small mining operations utilizing less than 10 men, such operations usually start as small surface mines then go underground. This type of mining is visualized as typical for the future in the area.

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Sporadic prospecting will continue utilizing field examination, trenching,and even possibly diamond drilling. No major exploration programs are regarded as likely in the near future.

The geology is favorable for the discovery of other base metal deposits particularly in those parts of the Lucky Boy area mantled by Tertiary and Quaternary gravels. There are reports to the effect that tungsten may occur in association with the other valuable minerals in the contact metamorphic deposits in the area.

MANAGEMENT OPPORTUNITIES

The opportunity is afforded to protect the lands within the Lucky Boy area from withdrawal or restriction from location under the general mining laws so that potentially valuable deposits of tungsten and other minerals may be sought after and discovered.

The opportunity also exists to identify and define through additional field work and exploration the mineral resources of the Lucky Boy area.

There is also the opportunity to protect the lands adjacent to the Hawthorne Silica mine immediately west of the Lucky Boy area from any actions which might materially effect the present mining operation.

COMPANIES AND CLAIMANTS ACTIVE IN THE AREA

1. Bouldin, Bob
   P. O. Box 6446 - Lubbock, Texas 79413
   Claims: Green leaf Nos. 24-36
   (13 lode claims)

2. Kaasch, K.D.
   P. O. Box 212 - Hawthorne, Nevada 89415
   Claims: Fancy Nos. 1-8
   (8 lode claims)

3. Ladd Enterprises Inc.
   70 Linden Street - Reno, Nevada 89502
   Claims: Ladd Tungsten Nos. 1-6
   (6 lode claims)

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4. McKenzie, George
P. O. Box 6446 - Lubbock, Texas 79413
Claims: Greenleaf Group
(3 lode claims)

Active claimants and claims at the Hawthorne silica mine west of the Lucky Boy area.

1. Bowden, Ward S.
(no address)
Claims: Lena B1, 2B1 and 2B2
(3 lode (?) claims)

2. Hawthorne Silica Company
P. O. Box 165 - Hawthorne, Nevada 89415
Claims: Silica Quartz Nos. 2-4, Afterthought and Afterghought No. 2, White Quartz, Lucky Langdon No. 1
(total of 8 lode claims)

3. Murphy, H.L.
P. O. Box 2211 - Reno, Nevada
Claim: Silica
(lode claim)

SELECTED REFERENCES

Archbold, N.L., 1966, Industrial mineral deposits of Mineral County, Nevada: Nevada Bur. Mines Rept. 14.

Hill, J.M., 1915, Some mining districts in northeastern California and northwestern Nevada: U.S. Geol. Survey Bull. 594.

Ross, D.C., 1961, Geology and mineral deposits of Mineral County, Nevada: Nevada Bur. Mines Bull. 58.

State of Nevada, Department of Taxation, Report of net proceeds of mines assessment, 1975.

Vanderburg, W.O., 1937, Reconnaissance of mining districts in Mineral County, Nevada: U.S. Bur. Mines Inf. Circ. 6941.

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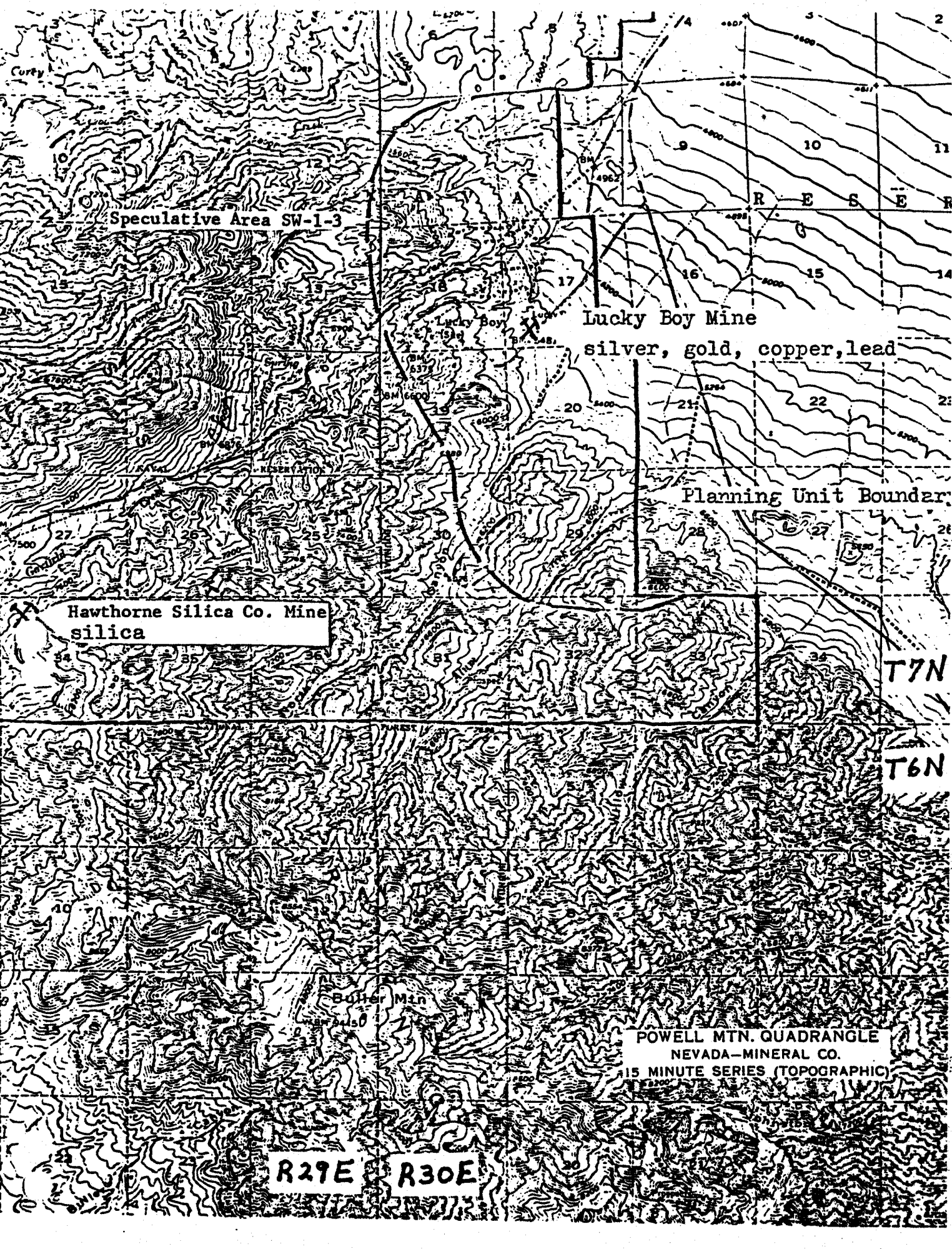
Speculative Area SW-1-3
Lucky Boy Mine
silver, gold, copper, lead
Planning Unit Boundary
Hawthorne Silica Co. Mine
silica
T7N
T6N
Butler Mtn
POWELL MTN. QUADRANGLE
NEVADA—MINERAL CO.
15 MINUTE SERIES (TOPOGRAPHIC)
R29E
R30E

Taken from:

.42 Minerals

Inventory and Analysis of the Walker Planning Unit

Carson City District
Nevada and California

by

J. R. Gilbert
1976

see Lyon County - general file, Item 13 for general preface remarks.