

5370 0014

NW-39-7
(Au, Ag,
Fe, U, W)

182

Item 14

AREA: CAMBRIDGE HILLS (Cambridge District)
(gold, silver, uranium, tungsten)

T. 9-10 N., R. 26-28 E.
Lyon and Mineral Counties, Nevada
U.S.G.S. Pine Grove Hills and Mt. Grant, Nevada
quadrangles 1:62,500

GENERAL BACKGROUND

The Cambridge Hills area includes the southern part of the range of hills which lie north and east of the Flying M Ranch and immediately west of the East Walker River. The area includes the old Cambridge mining district which has been included in recent literature in the Wilson mining district (Moore, 1969). Approximately 408,000 ounces of gold with some silver was produced from the Wilson district in the late 1800's. Just what proportion of this production is attributable to the Cambridge Hills area is not known. No other mineral production has been reported but other minerals known to occur in the Cambridge Hills area include iron, uranium, and tungsten.

GEOLOGY AND TECHNICAL DATA

The geology of the area consists of quartz monzonite batholithic rocks intruded into metasedimentary and metavolcanic rocks including quartzites and meta-andesites. Gold and silver mineralization is concentrated in quartz veins in fractured zones in the quartz monzonite.

Stoddard and Carpenter (1950) report that 300 feet of tunneling on a group of claims about 2 1/2 miles south of the Cambridge mine exposed gold and silver with maximum assay values of 0.35 ounces of gold and 4.5 ounces of silver. The samples were taken from a three-foot thick quartz vein in a quartzite containing intrusions of andesite.

Other mineral prospects in the Cambridge Hills area include the Owen Prospect about 1 1/2 miles southwest of the Cambridge Mine in SE 1/4 SE 1/4 Section 1, T. 9 N., R. 26 E. Reeves (1958) reported a deposit of magnetite in veins up to 4 feet wide in a dark gray-green to green metavolcanic rock containing conspicuous white plagioclase crystals. The magnetite veins trend generally east-west and can be traced for more than 300 feet in surface exposure. The composition of the veins varies from pure magnetite to red jaspery hematite. No production is known from the prospect. Moore (1971) states that hard, blue hematite with minor magnetite, is exposed in a shallow pit in a fissure zone over 200 feet long and 40 feet wide. About 300 tons of broken hematite ore with average grade 40% iron is in the bottom of the pit.

Garside (1973) reports the presence of radioactivity in some gold from one of the claims south of the Cambridge mine. Presumably some uranium may be present in the gold and silver-bearing veins in the area.

CURRENT ACTIVITY

No major exploration or development work is being done at present in the Cambridge Hills area. Mining activities are confined primarily to intermittent one and two man operations mainly in existing workings. There are numerous claims recorded in the area, however, and many are considered active.

ACCESS

The Cambridge Hills area is easily reached via the East Walker Ranches road which turns south from Route 3 about 10 miles south of Yerington and about 3 miles east of Wilson Canyon. Numerous unimproved roads afford ready access to most parts of the area, vehicle access is somewhat more restricted in that part of the area east of the East Walker River.

PRODUCTION STATISTICS

Since the Cambridge area has been lumped with the Pine Grove or Wilson district in the literature, published production statistics include both Cambridge area production and other mines in the Wilson district. Most of the recorded production is attributed to three mines outside of the Cambridge area and none is known for the Cambridge area alone.

POTENTIAL FOR DEVELOPMENT

Although many gold and silver prospects are present in the Cambridge area they are small and not expected to promote any major development in the near future. Any production will continue to be derived from small scale operations similar to those now being conducted.

Prospecting by individuals will continue but even with the increased price of gold no major exploration programs are expected to be conducted in the area.

The geology of the area is favorable for the discovery of other base metal mineral deposits through the use of modern exploration techniques.

MANAGEMENT OPPORTUNITIES

The opportunity exists to protect lands within the speculative area from withdrawal or restriction from location so that any new and potentially valuable mineral deposits may be discovered and developed.

There is also the opportunity to identify and delineate values and amounts of ore in any new deposits which may in the future be discovered.

COMPANIES AND CLAIMANTS ACTIVE IN THE AREA

1. Breckenridge, F.S.
2742 Parker Avenue - Oakland, California 94605
Claims: White Ledge, White Ledge Extension,
White Hill, White Hill Extension, White Flat,
White Flat Extension
(6 placer? claims)

2. Lewis, Warren
Sherman Lewis
Lucille Fallon
(no address)
Yerington, Nevada
Claims: Owen Lode Claim Group
(4 lode claims)
3. Rink, Ernest L.
302 E. Proctor Street - Carson City, Nevada 89701
Claims: Price lode Group, New Cambridge, New
Cambridge Extension and Extension #1, East Slope,
Easter Gold, Easter Gold Fraction, Combination
Fraction, Morning Star, North Star, Combination,
Oxford, Oxford Extension, Red Bird, Red Bird
Extension, Noonday, Pay Day, Pay Day West Nos. 1-3,
Pay Day North, Pay Day Northwest Nos. 1-3, Contact
Group, Jewell, Valentine, Valentine No. 1 North,
Grant View Group (total 51 lode claims)

SELECTED REFERENCES

- Garside, L.J., 1973, Radioactive mineral occurrences in Nevada: Nevada Bur. Mines and Geol. Bull. 81.
- Moore, J.G., 1969, Geology and mineral deposits of Lyon, Douglas, and Ormsby Counties, Nevada: Nevada Bur. Mines Bull. 75.
- Moore, L., 1971, Economic evaluation of California-Nevada iron ore resources and iron ore markets: U.S. Bur. Mines Inf. Circ. 8511.
- Reeves, R.G., Shawe, F.R., and Kral, V.E., 1958, Iron ore deposits of west-central Nevada: Nevada Bur. Mines Bull. 53, pt. B.
- Stoddard, C. and Carpenter, J.A., 1950, Mineral resources of Storey and Lyon Counties, Nevada: Nevada Univ. Bull., v. 44, no. 1, Geol. and Min. Ser., no. 49.
- Partial field examination J.R. Gilbert June 1976.

MT. GRANT QUADRANGLE
NEVADA
15 MINUTE SERIES (TOPOGRAPHIC)

Planning Unit Boundary

Cambridge line
gold, silver

Owen Prospect

Iron

PINE GROVE HILLS QUADRANGLE
NEVADA-LYON CO.

15 MINUTE SERIES (TOPOGRAPHIC)

Speculative Area NW-39-7

R26E R27E

Tying M
Ranch

LYON CO
MINERAL CO

T10N
T9N

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
pre face remarks.