4630 0001

Washoe Co. - general

NW-21-3
U, Au, Ag, Cu
pumice (pozzolan)

Mining District: STATELINE PEAK DISTRICT
(Uranium, Gold, Silver, Copper, Pumice)

T. 21-22-23 N., R. 17-18 E.
Plumas and Lassen Counties, California
USGS Chilcoot 15-min. quadrangle (1950), Loyalton 15-min. quadrangle (1955)

GENERAL BACKGROUND

The Stateline Peak area includes the western slope of Peterson Mountain and Long Valley. Most of the area is in California.

A large number of uranium claims have been located in the area, most of which are in California. Only one mine, the Buckhorn, located in the northwest slope of Peterson Mountain, has any record of production. Over 400 tons of uranium, exceeding 0.2 percent of U_3O_8, has been produced from this claim between 1955-1956.

The Antelope (Mars-Homestake) Mine in located in section 31, T. 22 N., R. 18 E., and the workings at this property straddle the Nevada-California State Line. Nominal gold and silver has been produced from the mine prior to 1890 and again between 1939-1941.

Pozzolan (an additative that imparts beneficial properties to cement, such as age and acid resistance) has been mined by open pit methods in section 25, T. 24 N., T. 17 E. Operations were suspended when the bridge connecting the plant on the west side of Long Valley Creek with the deposit on the east side of the creek was washed out.

GEOLOGY AND MINERALOGY

The core of Peterson Mountain is composed of granitic rocks of Cretaceous(?) age that intrude older metavolcanic rocks. Both the Hartford Hills Rhyolite and the Kate Peak Formation unconformably overlie some of the Mesozoic rocks. Plio-Pleistocene fluviatile and lacustrine sediments are locally unconformable on the older rocks.

Uranium mineralization occurs in ash-flow tuffs of the Hartford Hills Rhyolite, in Pliocene sedimentary rocks, and along fracture surfaces in the granitc rocks. In the ash-flow tuffs, uranium mineralization occurs in northeast-trending fracture zones up to 1 inch thick. Mineralization in the sedimentary rocks is confined to fracture zones, bedding planes, and arkosic sandstone lenses.

Uranium mineralization consists of gummite, autunite, and uranophane(?).

Bennett, Jan. 1973

The Antelope Mine is located on a northwest-trending quartz vein, averaging 5 feet thick, in Mesozoic metavolcanic rocks. Malachite, azurite, and pyrite are present on the mine dumps of this property. Bonham (1) reports that selected vein material contains small amounts of gold and between 2 and 10 percent copper.

The pozzolan deposit consists of rhyolitic ash beds.

POTENTIAL FOR DEVELOPMENT

With the exception of the Buckhorn claims, uranium mineralization in the other prospects in the area does not appear too promising. Undoubtedly some ore-grade material exists at these properties, but the limited extent of this material makes future development unlikely. However, considering the stragetic importance and projected future demands for uranium, a minor economic potential exists for the future production of uranium in the Stateline Peak area. Ore-grade material exists at the Buckhorn claims, but the reserves are not great. Should any production come from the area, it will probably come from this property first.

Past workings at many of uranium prospects consist simply of small prospect pits. Several of the uranium claims have been explored by shallow shafts and moderately large trenches and open pits. Future production, if any, would probably come from small open pits.

Although gold and silver has been produced from the Antelope Mine, copper mineralization is predominate. Inasmuch as the geology and mineralized structure are favorable, some potential exists for the discovery of economic mineralization. The old workings at the Antelope Mine consist of several shafts, adits, and numerous prospect pits. Future workings, if any, will probably be underground.

The pozzolan deposit will probably be exploited sometime in the future. Production at the pozzolan deposit will come from open pits.

COMPANIES AND CLAIMANTS ACTIVE IN AREA

The following claimants have been identified in the Stateline Peak area:

1. BARBARA L, LOLA G Group
   George Baker, et.al.
   Reno
   (14 lode claims)

2. ----------
   Baker & Sins Mining Co.
   5350 S. Virginia, Reno
   (111+ lode claims)

3. BLACKJACK Group
   N.N. Stewart
   Box 702, Big Pine, CA
   (2 lode claims)

4. DAISY MAE
   W. F. Ash
   1202 Mark Twain, Reno

5. YELLOW JACKET Group
   George Baker
   Reno

6. REX Group
   J. C. Bastain
   6686 Oakmont Dr.
   Santa Rosa, Calif.
   (3 lode claims)

Bennett, Jan. 1973

7. BUCKHORN Group
Ted Delanga
1953 Hymen, Reno

8. DELTA
E. L. Carlson
1254 A St., Sparks

9. STEMO PLACER, SILVER DYKE
S. T. Esterholdt
Rt. B 1213-F
Shingle Springs
(15 placer claims)

10. ----------
Melvin L. Cook
PO Box 100, Doyle

11. AVENGER Group
Armand Girola
10 State St., Reno
(24 lode claims)

12. HANDRA Group
Handra Mining Co.
313 Irwin St.
San Rafael, Calif.
(21 lode claims)

13. HOPE GROUP
Lady Mining Co.
1730 Riley, Reno
(18 lode claims)

14. LASSEN-NITE Group
Glenn Mastelotto
6107 Vista Knolls
Paradise, Calif.
(42 lode claims)

15. SLIP Group
Donald Master
1307 12th, Sparks
(8 lode claims)

16. OLD CRONA Group
W. C. Knox
Milford, Calif.
(9 lode claims)

17. RYSON Group
Val Ryson, et.al.
100 Ralston, Reno
Jul. 1967
(33 placer claims)

18. OWENSVILLE Group
D. O. Roberts
3711 Almeada
Menlo Park, Calif.
(13 lode claims)

19. SHAMROCK Group
Shamrock Mining Co.
1014 Rice Rd., Ojai, Calif
(9 lode claims)

20. TWIN PEAKS Group
James S. Deal
(2 lode claims)

21. LINDA ANN
Willard McQuire

22. RAINBOW, BONANZA Group
William Wheatley
(6 lode claims)

23. JACKPOT Group
C. D. Brown

24. PROSPECT Group
W. L. Hammersmith
(4 lode claims)

25. SURPRISE Group
Ed T. Redma
(3 lode claims)

26. ----------
Harry Boswell
(9 lode claims)

SELECTED REFERENCES

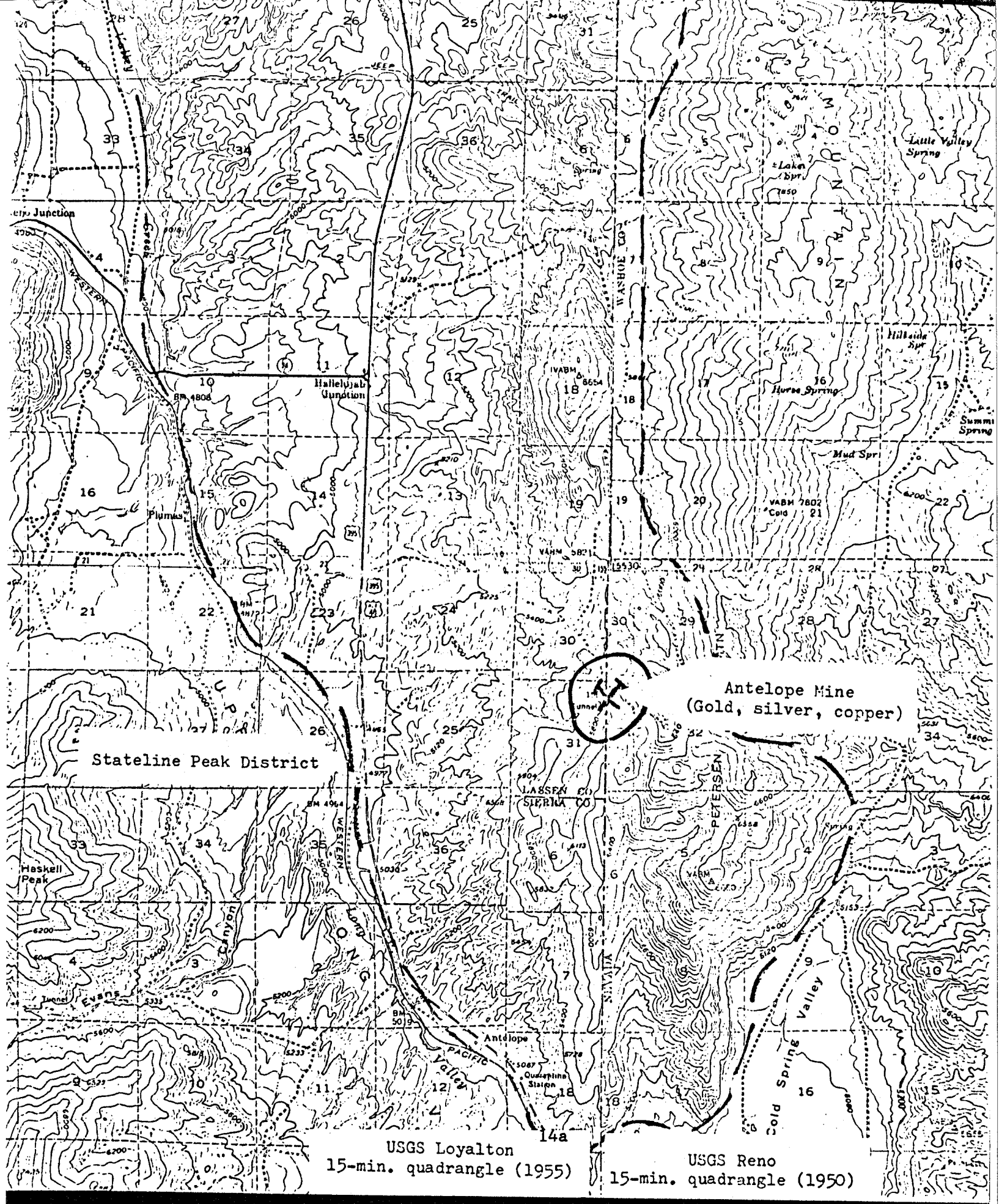
1. Bonham and Papke: Geology and Mineral Resources of Washoe and Storey Counties, Nevada; Nev. Bur. Mines Bull. 70, 1969.

2. US AEC: Reports of Uranium Investigations, 1955 (unpublished).

FIELD EXAMINATION

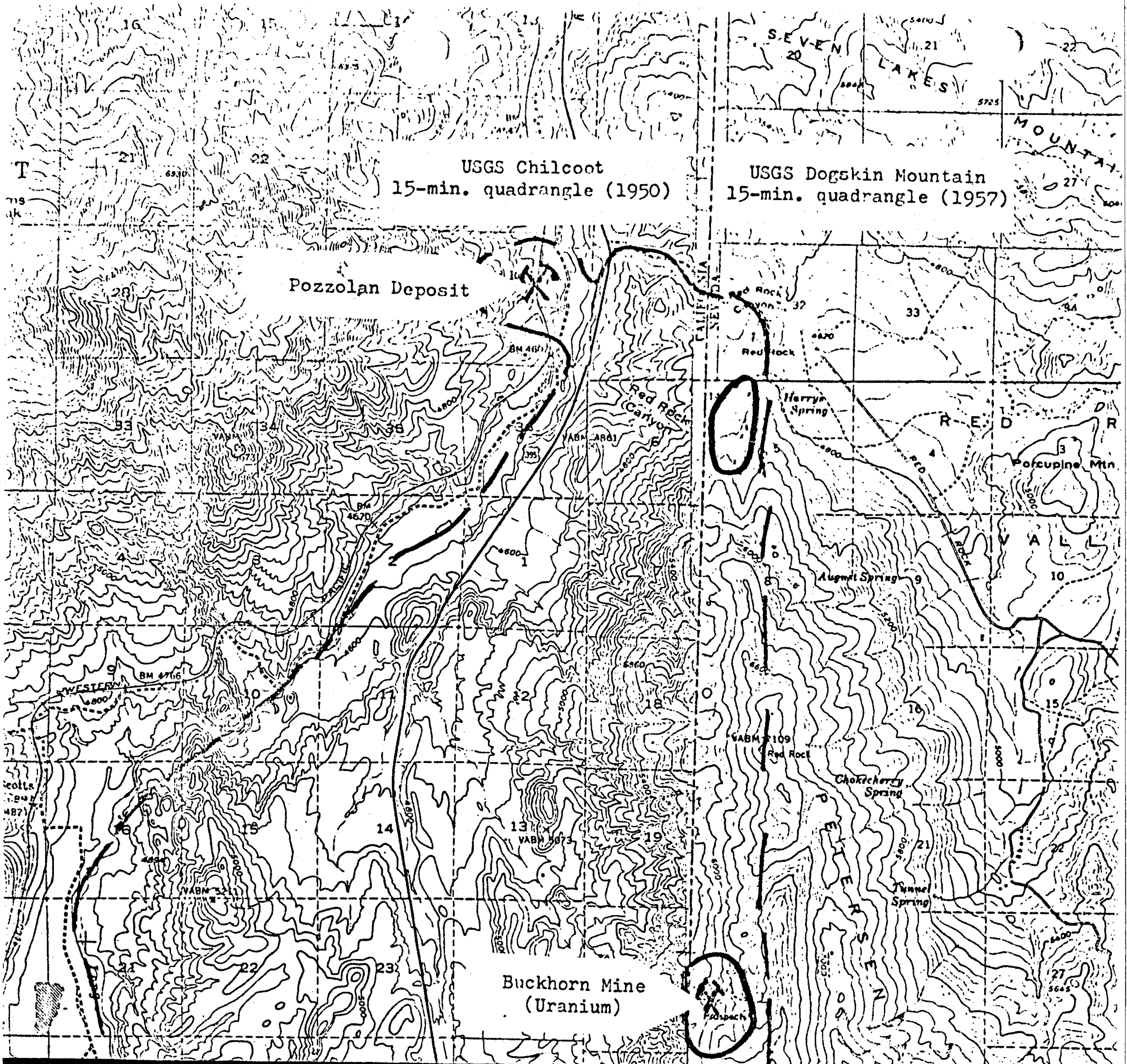
Bennett, Nov. 1972

Bennett, Jan. 1973



USGS Loyalton
15-min. quadrangle (1955)

USGS Reno
15-min. quadrangle (1950)


USGS Chilcoot
15-min. quadrangle (1950)
USGS Dogskin Mountain
15-min. quadrangle (1957)
Pozzolan Deposit
Buckhorn Mine
(Uranium)

Washoe Co.-general

Item 51

taken from:

Mineral Resources Inventory and Analysis

of the

Long Valley Resource Area

Carson City District

Nevada and California

includes: Ft. Sage Mtn. Uranium
Stateline Peak

by

R. E. Bennett and H. W. Mallery

1973