

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

ALEX-LADD Claims (Radioactive)

Harney County

Location: High on the east flank of the Steens Mountains and on the south side of Toughy Creek at a point about three-fourths of a mile north-east of the Alexander mine and approximately on the section line separating the western portions of sections 20 and 29, T. 34 S., R. 34 E.

General: The property is comprised of six claims located in 1955. Access is by a newly constructed jeep road starting from the Alexander mine.

Owners: Harry and Don Alexander of Andrews, Oregon, Fred and Nellie Ladd of Seattle, Washington, and the Miller Mining Company of Joseph, Oregon.

Geology: The general bedrock in the vicinity of the prospect is a rhyolite of the Pike Creek series as mapped by Fuller (1931) and Williams (1953) and as summarized in the Pike Creek Carnotite Group file report by Corcoran and Wagner (1955).

Radioactive mineralization is present in a strong, clearly defined fracture zone which is exposed near the crest of the hill in places where the normal mantle of soil overburden is generally thin and locally absent. In the prospect cut dug at the site of the principle area of surface count, this vein is three to four feet wide and trends in a north 65 degree west bearing with a near vertical dip. Elsewhere, nearby trends of north 30 degree west are present on what appears to be a continuation of the same general fracture system. This is essentially at right angles to the regional strike of the rhyolite flows. In one place on the hillside below the prospect pit, the fracture system is open in a crevice-like manner for a considerable distance. It is also paralleled by a narrow rhyolitic dike.

Scales of autunite are visible on fracture and seam surfaces in the prospect pit. This is the only uranium mineral presently recognizable. No departmental assays have been made on samples from this showing, but the owners report that chemical assays by Peter Marsh and the Bunker Hill Mining Company of Wallace, Idaho, show values from a few hundredths of a percent to as high as 0.34 percent. They also report radiometric indications of as high as 1.0 percent on select samples.

Development: The only prospect work at the time of this examination consisted of one small cut which has served to face-up a tunnel site on the fracture zone, but the owners have completed construction of an access road, and they plan to explore the showing with some additional cuts and short tunnels. This work is scheduled to commence in the Spring as soon as weather conditions permit.

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ALEX-LADD CLAIMS (Continued)
Page Two

Report by: N. S. Wagner

Date of Examination: November 5, 1955

Date of Report: December 5, 1955

Informants: Ernest Wells of the Miller Mining Company and Messers. Harry and Don Alexander.

References:

Fuller, R. E. (1931), The geomorphology and volcanic sequence of Steens Mountain in Southeastern Oregon: Univ. Wash. Pub. in Geology, vol. 3, no. 1, pp. 1-130, 1931.

Williams, H. W. and Compton, R. R. (1953), Quicksilver deposits of Steens Mountain and Pueblo Mountains, southeast Oregon: U. S. Geol. Survey Bull. 995-B, pp. 19-76, 1953.

Corcoran, R. E. and Wagner, N. S., Pike Creek Carnotite Group, File report, State Department of Geology and Mineral Industries, 1955.

HARNEY COUNTY

Alex-Ladd Claims (Radioactive)

N. S. Wagner 12-5-55

Blair Group Hg, Cu

Blue Bull Group Hg, Cu

Burns Pumice
Burns Pumice

N. S. Wagner 5-29-53

Cash Group

Catlow Valley Crevice

N. S. Wagner 6-16-52

Double Link Prospect

Senator Duncan's Quicksilver
El Dorado Claims

11/25/39

Franham Group

Fisher Group

Idol ~~Idle~~ City District Placers

Hines Land Appraisal for State Land Board -
Howell Cinder Pit

NSW - Oct 16, 1964

Last Chance Claim

Harney Concrete Tile Co. (Confidential) see
Burns Pumice

H.C.B. 2-6-58

Little Alvord U₃O₈

H.C.B. 2-6-59

Mogul Cinnabar Mine
Old Basin Detonate
Pardee Mine

NS
NSW - Aug 28, 73

Pike Claim -- Hg

Pike Creek Carnotite Group

Pike Creek Carnotite Group -- supplement Report No. 1

N. S. Wagner 11-25-55

Pueblo Mining Co.

Rabbit Hole Group

Red Bull Group

Silver Blossom Manganese Prospect

Sitz, Earl

Steens Mountain Mine

Trout Creek - Willow Creek Detonite.

Upper Pike Creek Radioactive Area

Valley View Cinnabar Property
Don Robbins

NSW - Feb 1965

by Max Schafer 6-5 & 6-56.

N.S.W.

3-21-44