

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

Blair Group (Hg)

Fields District
Harney County

Owner: Rube Blair, Fields, Oregon.

Location: Four miles northwest of Fields and $\frac{1}{2}$ mile north of the Fields-Blitzen road. It is west of and joins the Mogul Cinnabar Mine.

Area: Six unpatented claims known as the Connor Blair 1, 2, 3, 4, 5, and 6. Claims 1, 2, 3, 4, and 5 are full claims. Claim 6 is a fraction. Claims 1 to 4 inclusive run N 40° E and claims 5 and 6 run No 50° W.

Equipment: None.

Development: Six pits, three cuts and a 30 foot tunnel were noted.

Geology: A prominent diabase porphyry dike striking N 50° W with a vertical dip runs along the south end lines of claims 1 to 4 and the north side lines of claims 5 and 6. This dike is partially altered and silicified as was shown by the cuts across it.

A cut across the dike on claim 4, 1 on map exposes an 8" mineralized zone which is composed of a $\frac{1}{2}$ " of almost pure cinnabar three inches of opaline quartz impregnated with cinnabar and the diabase porphyry impregnated with cinnabar and azurite for four or five inches. Another cut 12 feet westerly on the dike exposes an altered zone, which pans cinnabar.

Other cuts expose cinnabar in varying amounts. In these, the cinnabar occurs in altered and partially silicified zones varying from one to three feet. The diabase porphyry on either side of the altered zone is impregnated with minor amounts of cinnabar.

The 30 foot tunnel on claim 2 is the largest working place and cuts the dike 20 feet below the crest of the outcrop. A sample taken across 2 feet in this tunnel ran 14 pounds. Assays taken from various cuts along the outcrop vary from nil to 14 pounds.

Another diabase porphyry outcrops 800 feet northeast of the above. No work has been done or cinnabar found in this outcrop.

Remarks: Work on these claims has been intermittent due to lack of funds on the part of the owner. These claims appear to have merit, but more work must be done to prove their worth. At the present time they are not attractive to an examining engineer due to the limited amount of work.

Hugh K. Lancaster,
Field Engineer
August 1, 1941

Mercury
Pounds per
Ton

BBF 161	Vein in first outcropping, adjacent to Mogul Cinnabar Claim, impregnated with cinnabar.	3.0
BBF 162	From number 5 claim, second cut in ledge (volcanic, probably a dacite).	Nil
BBF 163	Sample from outcrop on claim 5 diabase porphyry and cinnabar.	14.7
BBF 164	West side of outcrop, diabase porphyry, on claim 2.	Trace
BBF 165	East side of outcrop (said to run 17%)	1.2
BBF 166	Tunnel on No. 2 claim - altered rock.	14.7
BBF 167	East cut on No. 2 claim.	2.4
BBF 168	Cut on No. 5 claim on outcrop, diabase porphyry.	Trace