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STATE DEPT. OF GEOLOGY
& MINERAL INDS.

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Memo Report

BIG BEAR (ASH PROSPECT) Mercury

Jackson County
Gold Hill Dist.

Owners: E. C. Tams and John Carter, Medford, Oregon.

Area: Three lode claims filed in July 1957, including former claims located as the Ash Prospect or Ash Cinnabar.

Location: The claims are located on the west flank of Bear Mountain (elev. 2150') in sec. 1, T. 34 S., R. 1 W about 2 miles east of Trail on the south side of the Rogue River. They are reached by the Ferry road which follows the south bank of the river from Shady Cove.

Development: Development by previous owners includes a shallow shaft and three tunnels. The shaft is located at 2175 feet elevation on a southwest trending ridge. It is about 35 feet deep and has a short drift to the northwest following a prominent fault that strikes N. 35 W. and dips steeply to the northeast.

The main tunnel (Big Bear #1) is 176 feet long and trends southeast, with one short (10 ft.) crosscut about 90 feet from the portal.

Big Bear #2 tunnel enters from the southeast flank of the ridge at 1910 feet elevation and drifts N. 38 W for about 80 feet.

The third tunnel is below and west of Big Bear #1 at 1700 feet elevation on the south side of a small gully. It is about 45 feet long and trends S80E.

There is about 160 feet of rail installed in Tunnel #1 but no other mine equipment.

Geology: The rocks in the area are basalt and andesite flows, tuffs, and volcanic agglomerates. The workings are in altered andesites that show a high degree of fracturing and faulting. Siliceous "iron ribs" (Wells and Waters, 1934), are well developed along the fractures and faults. Smearred cinnabar was found on the fault plane at the portal of Big Bear #1 tunnel and also in small fractures and finely disseminated near the crosscut at 90' in the main tunnel.

Some cinnabar was found in rocks on the dump at Tunnel #2 but none was found in place. The short drift in this tunnel shows clay and some pyrite in a narrow shear zone.

Three samples were taken and the results of assays are given below:

#1 - RG-496	30 in. chip from face of tunnel #2	0.30 lb/ton Hg
#2 - RG-497	4 ft. chip from face of tunnel #1	0.40 lb/ton Hg
#3 - RG-498	Grab sample 90' from portal of tunnel #1	4.80 lb/ton Hg

Visited by: Len Ramp and Norma Peterson Oct. 14, 1957.

References: Wells, F. G. and Waters, A. C., 1934, Quicksilver deposits of Southwestern Oregon, USGS Bulletin 850.

Informant: E. C. Tams

Report By: N. V. Peterson

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
PROJECT SAMPLE RECORD

COPY

SAMPLES SUBMITTED BY: Len Ramp ADDRESS: P.O. Box 417 Grants Pass, Oregon DATE: 10-21-57

<u>Sample No.</u>	<u>Mine or Prospect</u>	<u>Type</u>	<u>District</u>	<u>S.</u>	<u>T.</u>	<u>R.</u>	<u>Assay For</u>
RG-496 1.	Big Bear Hg (Ash)	30" Chip	Gold Hill	NW $\frac{1}{4}$ 1	34 S	1 W	Hg
RG-497 2.	" " " "	4' "	" "	" 1	34 S	1 W	"
498 3.	" " " "	Grab	" "	" 1	34 S	1 W	"
499 4.	" " " "	2' Chip	" "	" 1	34 S	1 W	"

Descriptions:

1. Taken across face tunnel #2 (lower). Gray to brown gouge zone in altered porphyritic andesite.
2. Taken across face 176' (#1) tunnel -- altered porphyritic andesite.
3. Taken from No. 1 tunnel at crosscut (89 ft. from portal) also altered porphyritic andesite with minor specks disseminated cinnabar.
4. Taken across shear in S wall tunnel on Brush Creek just above old cabin is sheared and altered coarse-grained tuff (agglomerate).

Results:

		<u>MERCURY</u>
		<u>Hg</u>
P-22159	RG-496	0.30 lb/ton
P-22160	RG-497	0.40 lb/ton
P-22161	RG-498	4.80 lb/ton
P-22162	RG-499	Trace

with Norm & 26 Tams & E.C. Tams to Big Bear
Hq

Oct 14, 1957

to Shady Cove turn rt on
Ferry rd at Indian Creek
525.0 follow river to

530.8
525.3

5.5

530.0 keep right up Bush Creek
532.5 Cabin

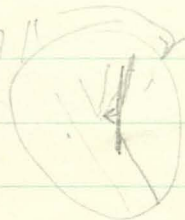
530.8 left off Rd & Park,
around hillside North to gulch. follow
up gulch to 25^{19 05 M} 30 A (lower tunnel
on N side gulch. tunnel (drift) N 39k
about 80' (10" muddy brown water)

Rt hand cross cut
drift on vert shear zone with clay
& sulphides crust lenses

Take s# 1-10-14-57 of 30"
gray to brown soft breccia &
Bouge zone in face drift

Altered porphyritic andesite & tuff?

Back 37' from Face rt hand cut
25' → N 18° E follows NS shear dip 70° W
exposed in rt wall



Big Bear #2

To saddle 2650 A is 2095 (s-t)
 up to 2140 el. (Big Bear #1 Tunnel
 has large dump & excellent track)
 (Alt. raised to 2160 while eating lunch)

Filled on 3 claims July 157
 located June 9th, Lowell^{A.} Ash
 Told them about it

37
 5
 185
 Tunnel #1 → 176'

(Take S# 2-10-14-57 4' across
 face)

84
 51
 19
 18
 176

From portal 89' to 10' R: Hand x cut
 S65°E, then 51 feet to S55°E,
 19' trend rails S11°E (curve), then
 18.5 feet to face S15°W

Note ^{minor} cinnabar on joint in N wall
 10' beyond rd hand xcut P N87°E,
 dip 75°S.

50' from portal in NWE FW of
 fault strike = N48°W dip 83°SW
 cinnabar in fractures behind wall

8' toward portal ^{H₀} paint on FW

fault at rt side portal st N60°W (curving)
 dip 57°NW/cinnabar - paint

less common beyond xcut noticed
S# 3-10-14-57 = ~~chip~~ grab
dissem from tunnel at xcut

up to $\frac{2175(W)}{2230A}$ on ridge 35' deep
shaft with 12 ft drift to NW
Fault on NE wall shaft strikes
N 35° W dip NE 70° filled with
1½" brown siliceous material

W side creek just above cabin
12' ~~drift~~ tunnel. S 72° W
8' in = 24" shear \rightarrow N 15° W
dip 75° NE Take S# 5-10-14-57
across shear (chip 24")
200' south of cabin in agglomerate

Tunnel up gully E of cabin
in altered andesite (porph)
N 80° W 45' 1710A = 20° south
of gully where old mine road switches
to south