

# State Department of Geology and Mineral Industries

1069 State Office Building

Portland 1, Oregon

Jackson County

Upper Applegate Dist.

JAY BIRD (Antimony)Location: NW $\frac{1}{4}$  - NW $\frac{1}{4}$  sec. 14, T. 40 S., R. 4 W., Jackson County.

The mine is reached by traveling to McKee's Bridge, turning off on the Palmer Creek road about 2 miles, then 3.5 miles on a mining road.

Owners: The mine is owned by E. P. Merrick, Medford, and is presently leased to W. H. Holloway of Medford.

Development: 3 levels, stoping, etc.

Geology: The vein is in banded argillite and at the end of the drift trends N. 65° W., 75° SW. The vein is 4 feet wide at the face. The vein material, stringers of quartz and stibnite, fills a shear zone. The face was advanced 10 feet beyond the point where Griggs of the U.S.G.S. mapped the mine (level 3).

One 4-foot channel sample was taken at the face. The results were:

Sb, 7.5%; As, 0.78%.

The present workings are entering the area where ore was stoped on the #1 and 2 levels above. It is probable that the vein is entering the "shoot" present in the workings above.

~~XXXXXXXXXXXXXXXXXXXX~~ Higher-grade rock should be encountered. Yellow, orange and red antimony minerals are present coating fractures. These are probably kermesite and stibiconite (?).

Visited: Sept. 15, 1955 by M.S.Reported by: Max Schafer 10/13/55.

References: Griggs, U.S.G.S. - Map.  
Wells, Grants Pass Quad, U.S.G.S. & D.O.G.A.M.I.  
Josephine Co. Handbook, D.O.G.A.M.I.

## STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

## ASSAY REPORT

Grants Pass, Oregon  
Baker, Oregon

February 5, 1942

Sample submitted by Ray C. Treasher for Emerson MerrickSample description: Sample taken over dump area--is supposed to run up to \$16 in gold. This material is being stockpiled for future use.

The assay results recorded below are made without charge as provided by Chapter 176, Section 10, Oregon Laws 1937, the sender having complied with the provisions thereof.

NOTICE: The assay results recorded below are from a sample furnished by the above named person. This Department had no part in the taking of the sample and assumes no responsibility, other than the accuracy of the assay of the material as furnished it by the sender.

Sample Number	GOLD		SILVER		Percent	Value	Percent	Value	Total Value
	Ounces per ton	Value	Ounces per ton	Value					
	0.01	\$0.35	None						\$0.35

## Market Quotations:

Gold \$35.00 per oz.  
 Silver \$ .70 per oz.  
 \$ per lb.  
 \$ per lb.

STATE ASSAY LABORATORY

*Robert J. Bassett*  
 Assayer

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland, Oregon

BLUE JAY ANTIMONY MINE

Upper Applegate Area-July 17, 1944

(Called Jay Bird Mine by owner, Merrick)

The Jay Bird Mine was visited on July 17, 1944, when the miners, Messrs. J. F. Marcus, foreman, and W. B. Harlow were there. The extent of the mining done to date has been added to a plane and profile sketch made by Treasher and Bassett on March 18, 1943. Additional stoping amounts to about  $1\frac{1}{2}$  times that which they show. One new raise was driven between levels 1 and 2, and level No. 2 was extended 145 ft. The shear zone, which level 2 follows after the first 100 feet, (see sketch), was opened for 35 feet exposing considerable ore. The stopes are now mostly filled and could not be measured, but Marcus' estimate is assumed to be reliable since he has been responsible for almost all the mining since the beginning of operations, a little before January 1942.

Exclusive of drifts and raises, about 10,000 cu. ft. of ground was taken out up to March 1943, and about 15,000 cu. ft. additional up to the present. If the ore averaged 6 inches in width (a doubtful average), there has been some 300 tons taken out. Since January of this year there seems to have been only about 25 tons shipped. On this basis the actual production is less than the above estimate.

The ore is hauled from the portal of the lower adit (No. 2) down to the bunker (a half mile by road from the mine), on a two-wheel double-tires trailer drawn by a medium size caterpillar tractor. The mine is about 300 feet above the bunker at an elevation of about 2400 feet.

Equipment besides the tractor and trailer, or ore cart, includes a portable air compressor.

At the time of examination, a small amount of ore was being removed from the bottom of the drift midway between the raises. A rather rich pocket of ore was found in the mineralized shear zone about 35 feet south of the portal of the No. 2 level. A combination open cut and drift extends along the shear zone for 35 feet in the back of which small bunches of oxidized stibnite occur on the hanging wall. No ore was found in the face, but according to Marcus, the maximum width was 1 foot of solid ore. In a winze of shaft sunk in the bottom of the open cut the ore was stated to pinch to about 6 inches. Plans of the owner now are to drive a new drift below the No. 2, starting from the hanging wall side and entering at an acute angle to the strike of the shear zone. More ore probably occurs below the present workings, as well as along the strike westward into the hill side. On the surface some 200 feet westward beyond the end of the present levels, float stibnite has been found by the miners. The tendency has been to follow the ore rather than to use up the profits by perhaps extensive drifting through barren ground in the search for other pockets of ore in the shear zone.

The owner, impressed by the distribution of the oxidized ore, is now entertaining the thought of installing a mill to recover the supposedly abundant oxidic antimonial minerals which are said to have been prevalent down to the No. 2 level. This venture can hardly be an exhibition of wisdom on the part of the owner.

January 30, 1942

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland, Oregon

## BLUE JAY ANTIMONY PROSPECT

Upper Applegate Area.

The road, practically 4 miles, is being built for about \$2200 although additional money will have to be spent to make it an all weather road. Maximum grades are 20 percent. The road ends about 350 feet from the portal, from where ore will be sledded to the trucks over a 40 percent grade. Merrick plans on hauling 3 ton loads to the Applegate River, where he will consolidate loads for trucking to Medford.

Mining costs must be high, as it is all hand work. Rock is easy to drill or pick. Hand sorting is absolutely necessary.

The ore is stockpiled and there is about 75-100 tons of high grade awaiting shipment. I believe that an estimate of 100 tons in stopes above the adit is very conservative. The ore at the face is showing stronger in the floor than in the back. At times the ore pinches out completely so that it may be difficult to keep ore developed. Careful and intelligent development and prospecting should uncover a moderate amount of ore.

Merrick claims that he will get \$80 a ton for 50 percent ore, f.o.b. Medford, and he ships to Los Angeles. He plans to stop the ore above the adit as soon as he can get timbers in to the prospect, and then continue development.

I recommended that he get out his ore and direct his development by "following the ore", rather than dropping down the hill and starting a new adit regardless. I believe that there is a fair possibility of developing a moderate quantity of high grade ore; the low grade should be stockpiled against a time when there is sufficient to justify a small mill. I would class the ore reserves as:

Known (on the dump) -- 100 tons  
Probable (ore above the adit) -- 100 tons  
Possible (from what I could judge  
at the time of examination) -- 500 tons

At \$80 a ton I believe that Merrick can "see" \$16,000 in his mine, with a possible expectation of perhaps \$40,000. I feel that he has a good prospect and should "do alright".

There is other antimony reported from the general area; Lowry's on Kanaka Gulch, a spot somewhere on the ridge between Kanoka and Grouse Creek, along Grouse Creek, and another one "somewhere" in the area.

Ray C. Treasher  
Field Geologist  
January 30, 1942

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

ASSAY REPORT

Office Number \_\_\_\_\_

Grants Pass, Oregon  
Baker, Oregon

February 19 1942

Sample submitted by Ray C. Treasher for Emerson Merrick Grants Pass, Oregon

Sample description CB56 small pieces of "high grade"  
CB57 grab sample from stock pile

The assay results given below are made without charge as provided by Chapter 176, Section 10, Oregon Laws 1937, the sender having complied with the provisions thereof.

NOTICE: The assay results given below are from a sample furnished by the above named person. This department had no part in the taking of the sample and assumes no responsibility, other than the accuracy of the assay of the material as furnished it by the sender.

Sample Number	GOLD		SILVER		Antimony		Arsenic		Total Value
	Ounces per ton	Value	Ounces per ton	Value	Percent	Value	Percent	Value	
CB56					57.9		1.4		
CB57					42.5		1.2		

Market Quotations:

Gold  $\frac{1}{10}$  per oz.  
Silver  $\frac{1}{10}$  per oz.  
 $\frac{1}{100}$  per oz.  
 $\frac{1}{1000}$  per oz.

STATE ASSAY LABORATORY

*J. C. Richards*  
Assayer

~~CB56~~

RECEIVED  
FEB 21 1942

STATE ASSAY LABORATORY

GRANTS PASS, OREGON

RECEIVED  
MAY 13 1942

STATE ASSAY LABORATORY  
GRANTS PASS, OREGON

Blue Jay Antimony

General Laboratory Number

Date received 4-11-42

Spectrographic Laboratory Number 149

Sample received from Treasurer

QUALITATIVE SPECTROGRAPHIC ANALYSIS  
(Quantities estimated to nearest power of ten)

1. a Elements present in concentrations over 10%.  
Antimony
2. b Elements present in concentrations 10% - 1%.  
Calcium, Silicon, Arsenic, Iron
3. c Elements present in concentrations 1% - 0.1%.  
Sodium, aluminum, tin
4. d Elements present in concentrations 0.1% - .01%.  
Barium, Titanium, Vanadium, Chromium
5. e Elements present in concentrations .01% - .001%.  
Potassium, copper, silver, magnesium, cadmium,  
manganese, nickel
6. f Elements present in concentrations below .001%.  
Strontium, Boron
7. Elements sought but not found.

Dr. H. C. Harrison, Spectroscopist

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Sept. 15

Ugg Appleys

#1 Jay Bird Antimony Mine  
with Holloway, W. H.

10' beyond map by Griggs  
of USGS

Owned by E. P. Merrick,  
Medford  
Leased by Holloway

Face - 4' wide  
stringers of qtz + stibnite  
in shear zone. Face looks  
like about 60% stibnite?  
Looks like it may be widening  
out. Holloway says should be  
reaching 10' shoot on #2.

Post? vein & mineral dike (~~spagi~~<sup>basalt?</sup>)  
in #2. No displacement of  
vein.

4' channel - Left 4' out of 5'

Shears - 80-85° to SE

Orange oxidation min near floor  
3' wide in middle of vein.

Off main road on Palmer Ck  
road. 2<sup>nd</sup> signpost straight  
ahead. Palmer Ck right. 3  
miles on mining road.

At McKee's Bridge

5 $\frac{1}{2}$  to mine from McK Br.

4' channel PG ~~25~~ 327



RECORD IDENTIFICATION

RECORD NO..... M061459  
RECORD TYPE..... XIM  
COUNTRY/ORGANIZATION. USGS  
MAP CODE NO. OF REC..

REPORTER

NAME..... JOHNSON, MAUREEN G.  
UPDATED..... 80 12  
BY..... FERNS, MARK L.; (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... BLUE JAY PROSPECT  
SYNONYM NAME..... JAY BIRD

MINING DISTRICT/AREA/SUBDIST. UPPER APPLGATE

COUNTRY CODE..... US  
COUNTRY NAME: UNITED STATES

STATE CODE..... OR  
STATE NAME: OREGON

COUNTY..... JACKSON

QUAD SCALE QUAD NO OR NAME  
1: 62500 RUCH

LATITUDE LONGITUDE  
42-05-35N 123-08-51W

UTM NORTHING UTM EASTING UTM ZONE NO  
4659900.0 487800.0 +10

TWP..... 40S  
RANGE..... 04W  
SECTION.. 14  
MERIDIAN. WILLAMETTE

LOCATION COMMENTS: NW 1/4 NW 1/4

COMMODITY INFORMATION

COMMODITIES PRESENT..... SB AU AS

PRODUCER(PAST OR PRESENT):  
MAJOR PRODUCTS.. SB

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):

COMMODITY COMMENTS:  
ASSOCIATED WITH BLUE QUARTZ

EXPLORATION AND DEVELOPMENT

STATUS OF EXPLOR. OR DEV. 4

PRESENT/LAST OWNER..... JOHN H. RACICOT, JACKSONVILLE OREGON (1973)

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

SHEAR ZONE/VEIN \*

FORM/SHAPE OF DEPOSIT: LENTILS

SIZE/DIRECTIONAL DATA

MAX WIDTH..... 25 INCHES

STRIKE OF OREBODY..... NBOW

DIP OF OREBODY..... B0SW

DESCRIPTION OF WORKINGS

COMMENTS(DESCRIP. OF WORKINGS):

300 FEET OF TUNNEL ON TWO LEVELS

PRODUCTION

YES

SMALL PRODUCTION

ANNUAL PRODUCTION (ORE, COMMOD., CONC., OVERBURD.)

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE EST		.075	TONS		MORE THAN 45% SB

CUMULATIVE PRODUCTION (ORE, COMMOD., CONC., OVERBUR.)

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
15	ORE EST	000.111	TONS	1939-1944	47+ % SB
23	ORE EST	000.111+	TONS	1939-1945, 1965+	SB

PRODUCTION YEARS..... 1939-1942

PRODUCTION COMMENTS..... ODCMI BULL. 64

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PERM-TRI

## LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: APPLGATE GROUP  
AGE: PERM TRI

## COMMENTS (GEOLOGY AND MINERALOGY):

STIBNITE ALSO OCCURS DISSEMINATED IN THE WALL ROCK.

## GENERAL REFERENCES

- 1) MINERAL AND WATER RESOURCES OF OREGON, 1969, ODGMI BULL. 64, P.93
- 2) WAGNER, N.S., 1944, ANTIMONY IN OREGON; ODGMI GMI SHORT PAPER NO. 13, P.11
- 3) OREGON METAL MINES HANDBOOK, 1943, ODGMI BULL. 14-C, VOL. 2, SEC. 2, P.154