

State Department of ~~Geology~~ and Mineral Industries <sup>TSM</sup>

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702 Woodlark Building  
Portland, Oregon

DUTCH LEDGE MINE (Au)

STATE DEPT OF GEOLOGY  
& MINERAL INDUSTRIES

Lower Applegate Dist.  
Josephine County

Old Name: Reported to have been known previously by the names Dutch Boy, North Horn and Mountain King.

Owner: H. G. Murphy, Williams, Oregon

Location: NW $\frac{1}{4}$  of SW $\frac{1}{4}$  Sec. 10, T38S., R5W. The property is reached by the Murphy-Provost Highway and the watergap cut off to Williams.

Area: 160 acres of deeded land.

History: Little authentic information is available concerning the early work on the mine. Principal workings are reported to have been made in the 1890's with a total production of \$98,000. The ore was milled in an arrastre on Williams Creek. Little work has been done subsequent to that period.

Development: See attached map.

Geology: The immediate area of the mine is one of meta sedimentary and metavolcanics rocks. These belong to a series which Wells regards as Paleozoic or older.

The meta sediments are black fine grained argillites which everywhere show close platy jointing. Locally they are extremely dense and silicious. Strike is NE-SW and dip to the SE at high angles commonly around 70°.

The meta volcanics are gray-green, medium grained and with attitude indistinct but apparently corresponding to that of the meta sediments. A sample examined petrographically by H. M. Dole was classified as ~~Albite-chlorite-schist~~ and is regarded as representing a low form of metamorphism of a basic lava.

The lower two tunnels are along a zone of parallel quartz veins which strike NW-SE and dip to the SW at angles ranging from 50°-80°. The zone ranges from 1 $\frac{1}{2}$ ' to 5' in width with most of the individual veins being less than 1" in width. Pyrite is finely disseminated throughout the zone and walls. Included in this zone is one prominent and more or less continuous vein which varies in width from 6"-12". Near the portal of the principal tunnel at 2450' elevation, the vein encounters a strong NW-SE shear zone and follows along this for approximately 50' before turning sharply into the hanging wall. The shear zone at the portal is 6' in width

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and includes highly sheared and slickensided material from both walls cut by numerous quartz stringers. The condition of the workings is such that it is impossible to observe the limits and character of the zone throughout its length. It is assumed that it is essentially the same as at the portal although the width of the zone and the degree of shearing may vary.

At a prospect pit located between the lower tunnels at 2430' elevation, the vein measures 2½' in width which includes the following from right to left across the face.

- (1) 8" quartz vein containing argillite fragments. Channel sample assayed 0.02 oz./ton gold and nil in silver.
- (2) 6" decomposed quartz and limonite. Channel sample assayed 2.90 oz/ton gold and a trace in silver.
- (3) 16" quartz stringers in argillite. Channel samples of (2) and (3) combined assayed 1.15 oz/ton gold and 0.30 oz/ton silver.

The upper workings cut several quartz veins but little has been done in the way of further exposing any of these. Strike of these veins ranges from easterly to SE.

Equipment: None

General Information: The main workings are located 2335'-2530' elevation on the SE slope of a heavily timbered NE-SW trending ridge. The property is reached from the Watergap cutoff by approximately 1 miles of fair dirt road and ¼ mile of poor logging road.

## DESCRIPTIONS AND ASSAY RESULTS OF THE SAMPLES SHOWN ON THE MAP

Sample Number	Description	Au oz/ton	Ag oz/ton
1 HG 268	18" channel in limonite and decomposed quartz	0.12	Trace
2 HG 269	8" channel in quartz	0.02	Nil
3 HG 270	6" channel in limonite and decomposed quartz	2.90	Trace
4 IG 6	22" channel	1.15	0.30
5 IG 7	5' channel across zone of quartz stringers	0.11	Trace
6 IG 8	6' channel across shear zone	0.025	Trace
7 IG 9	15" channel in limonite and decomposed quartz	0.09	Nil
8 IG 10	12" channel in quartz	0.12	Nil
9 IG 11	12" channel	0.16	Trace
10 IG 12	12" channel	0.12	Trace
11 IG 13	18" channel in quartz	0.04	Trace
12 IG 14	15" channel in quartz	0.01	Nil

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References: Preliminary Geologic Map of the Grants Pass quadrangle  
(Wells 1940)

Report by: H. D. Wolfe

Date of Examination: Dec. 30-31, 1947; January 12-13, 1948

Date of Report: October 7, 1948

Informants: H. G. Murphy

DUTCH LEDGE CLAIM L. APPLIGATE JOSEPHINE

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
ASSAY LABORATORIES

REQUEST FOR SAMPLE INFORMATION

The State law governing free analysis of samples sent to State Assay Laboratories requires that certain information be furnished the Laboratory regarding samples sent for assay or identification. A copy of the law will be found on the back of this blank. Please fill in the information called for as completely as possible, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

Your name in full H. D. Wolfe

Post-office address Box 417, Grants Pass, Oregon

Are you a citizen of Oregon yes Date on which sample is sent 12/9/47

Name (or names) of owners of the property H. G. Murphy

Name of claim sample obtained from Dutch Ledge

Location of property or source of sample (describe as accurately as possible below):

County Josephine Mining district L. Applegate

Township 38S Range 5W Section 10 Quarter section NW<sup>1</sup>/<sub>4</sub>

How far from passable road 1 mile

For what minerals or elements do you wish the sample(s) analyzed Au Ag

	<u>Channel (length)</u>	<u>Grab</u>	<u>Pipe</u>	<u>Description</u>
Sample No. 1	<u>18"</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
	<u>10"</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
Sample No. 2	<u>8"</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

**IMPORTANT:** A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.

(Signed) H. D. Wolfe

DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED

Description \_\_\_\_\_

Sample Number	GOLD		SILVER				
	oz./T.	Value	oz./T.	Value			
HG268	0.12		Trace				
HG269	0.02		Nil				
HG270	2.90		Trace				

Report issued \_\_\_\_\_ Card filed \_\_\_\_\_ Report mailed \_\_\_\_\_ Called for \_\_\_\_\_

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Josephine County

Economics: Murphy acquired this property several years ago for a very nominal sum. He later discovered that there were a number of old mine workings on the property and since then has been trying to peddle the property as a mine.

The "mine" as it now stands has little to justify additional work. The only "ore" exposed is a 6" zone of limonite and quartz appearing in the prospect pit at 2430' elevation. This zone appears to be of limited extent but at least warrants thorough prospecting.

In the past the production has come from "pocket type" deposits and any future production which the property may have, will likely result from similar discoveries. Other than this the property is a complete blank.

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STATE DEPARTMENT OF GEOLOGY  
AND MINERAL INDUSTRIES

702 WOODLARK BUILDING  
PORTLAND 5, OREGON

January 28, 1948

*Dutch Ledge Mine*

Sample submitted by H. D. Wolfe

Analysis by:

Sample received on January 19, 1948

*L. L. Hoagland*  
Assayer

Analysis requested Gold, Silver assay

Lab. No.	Sample Marked	Results of Analysis		Remarks
		Gold (Au)	Silver (Ag)	
P-6902	IG-6	1.15 oz.	0.30 oz.	40.25 --- Below Bridge # 2 level 2 1/2' channel
P-6903	IG-7	0.11 oz.	Trace	3.85 5' channel - # 2 level south end of open tunnel
P-6904	IG-8	0.025 oz.	Trace	0.87 6' channel - # 2 level at adit main tunnel.
P-6905	IG-9	0.09 oz.	Nil	3.15 15" channel - to rt. of adit # 3 level
P-6906	IG-10	0.12 oz.	Nil	4.20 12" channel - near adit of left tunnel # 3 level
P-6907	IG-11	0.16 oz.	Trace	5.60 12" channel - rt. rear left tunnel.
P-6908	IG-12	0.12 oz.	Trace	4.20 12" channel - 15' back from adit rt tunnel # 3 level
P-6909	IG-13	0.04 oz.	Trace	1.40 18" channel - # 4 level - left tunnel at rear.
P-6910	IG-14	0.01 oz.	Nil	0.35 15" channel sample - # 4 level - rt tunnel at rear right.
***	****	*****		*****

The Department did not participate in the taking of this sample  
and assumes responsibility only for the analytical results.

Harold:

Mr. Libbey <sup>was</sup> asking about the Gold Note (Greenback Dist) the other day. He wants to visit it the next time he goes to G. P. Do you know how to get to it, or how the road is, etc, etc? I don't know a blamed thing about it.

Also if you know of any other Cu. properties it might not hurt to find out how to get to them. I think the next time he comes down he will want to see as many copper prospects as possible.

Such is life!!

How's the little boy these days?

Regards to your family,

W.D.

DUTCH LEDGE SAMPLES 1947-1949

Date	Sample No.	Sampler	Type	oz/ton Au	oz/ton Ag	Comments
3-12-47	HG-39	H. G. Murphy	Grab	0.12	Trace	-----
3-12-47	HG-40	"	"	0.01	Trace	-----
11-26-47	HG-251	"	"	0.03	----	-----
12-18-47	HG-268	"	18-in.	0.12	Trace	18" shear #1 level
12-18-47	HG-269	H. D. Wolfe	10-in. channel	0.02	Nil	10" qtz vein #2 level
12-18-47	HG-270	"	8-in.	2.90	Trace	8" shear vein #2 level
1-28-48	IG-15	H. G. Murphy	4-ft channel	0.12	Trace	Across shear above caved adit.
1-28-48	IG-16	"	15-in. channel	0.10	Trace	Across shear above main adit #3 level
3-30-48	IG-69	"	grab	0.02	Trace	Test pit #3 right wall.
3-30-48	IG-70	"	grab	0.36	Trace	Test pit #3 center zone.
5- 7-48	IG-97	"	grab	0.05	Trace	-----
5- 7-48	IG-98	"	grab	2.79	0.52	-----
6- 7-48	IG-124	"	grab	0.025	----	-----
3-21-49	JG-59	"	grab	0.19	(Tr WO <sub>3</sub> )	Argillite
3-21-49	JG-60	"	grab	0.04	-----	quartz with argillite
5-31-49	JG-137	"	grab	0.04	(Pt - nil)	Argillite
11-15-49	JG-350	A. R. Horn	grab	0.12	----	quartz breccia
11-15-49	JG-351	"	grab	0.14	----	limonite stained argillite



## CRIB MINERAL RESOURCES FILE 12

## RECORD IDENTIFICATION

RECORD NO..... M020040  
 RECORD TYPE..... X1M  
 INFORMATION SOURCE... 2  
 MAP CODE NO. OF REC..

## REPORTER

NAME..... FERNS, MARK L. (BROOKS, HOWARD C.)  
 AFFILIATION..... DDGMI  
 DATE..... 81 04

## NAME AND LOCATION

DEPOSIT NAME..... DUTCH LEDGE  
 SYNONYM NAME..... NORTH HORN, MOUNTAIN KING

MINING DISTRICT/AREA/SUBDIST. LOWER APPELEGATE

COUNTRY CODE..... JS  
 COUNTRY NAME: UNITED STATES

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

COUNTY..... JOSEPHINE  
 DRAINAGE AREA..... 17100309 PACIFIC NORTHWEST  
 PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS  
 LAND CLASSIFICATION..... 01

QUAD SCALE QUAD NO OR NAME  
 1: 62500 GRANTS PASS (1954)

LATITUDE LONGITUDE  
 42-16-42N 123-16-57W

UTM NORTHING UTM EASTING UTM ZONE NO  
 4680500 476700 +10

TWP..... 038S  
 RANGE..... 005W  
 SECTION.. 10  
 SECTION FRACTIONS: NW 1/4 SW 1/4  
 MERIDIAN. WILLAMETTE

ACCURACY OF LOCATION  
 ESTIMATED

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

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):  
POTENTIAL.....  
OCCURRENCE..... AG

ORE MATERIALS (MINERALS,ROCKS,ETC.):  
FREE GOLD

ANALYTICAL DATA(GENERAL)  
HIGH GRADE SAMPLE ASSAYED 2.90 OZ/TON AU; TRACE AG

EXPLORATION AND DEVELOPMENT  
STATUS OF EXPLOR. OR DEV. 8

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:  
SHEAR ZONE  
FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA  
MAX WIDTH..... 5 FT  
STRIKE OF OREBODY.... NW  
DIP OF OREBODY..... 50-80SW

COMMENTS(DESCRIPTION OF DEPOSIT):  
PARALLEL VEINS; POCKETS

DESCRIPTION OF WORKINGS  
UNDERGROUND

PRODUCTION  
YES  
SMALL PRODUCTION

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

ITEM	ACC	AMOUNT	THOUS.	UNITS	YEAR	GRADE,REMARKS
15 AU	EST	0004.000	OZ			PRE-1948

SOURCE OF INFORMATION (PRODUCTION).. WOLFE (1948)

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PERM-TRI  
HOST ROCK TYPES..... ARGILLITE AND CHLORITE ALBITE SCHISTS

IMPORTANT ORE CONTROL/LOCUS.. SHEAR ZONE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: APPLGATE GROUP
- AGE: PERM TRI

NAMES/AGE OF IGNEOUS UNITS OR IGNEOUS ROCK TYPES

- 1) NAME: GRAYBACK PLUTON
- AGE: LJUR CRET

GENERAL REFERENCES

- 1) WOLFE, H.D., 1948, DUTCH LEDGE MINE; DDGMI UNPUBLISHED FILE REPORT