

Equipment: A small ball mill operated by a $2\frac{1}{4}$ h.p. gas motor.

Geology: Diorite and greenstone country rock abutting against serpentine on three sides. Gold is mainly in the quartz although there is some in the country rock. A small quantity of sulfides occur in the quartz, and a less amount in the country rock. According to Mr. Reed the big vein will average \$3 - \$15 per ton for 15 to 40 feet of width.

Informant: R. E. Reed, 4/4/40.

Report by: Ray C. Treasher.

ROGUE RIVER GOLD COMPANY

Greenback area

Owner: Rogue River Gold Co., D. H. Ferry, Rogue River, Oregon, vice president and manager.

Location: On Grave Creek upstream from Leland in secs. 9 & 10, T. 34 S., R. 6 W.

History: The dredge was moved from its original location on Foots Creek, and began digging on September 25, 1935. Operation was discontinued in 1939 and later the dredge was dismantled and moved to Idaho.

Equipment: The dredge was a connected bucket type having a daily capacity of 8000 cubic yards. It was powered by 15 motors aggregating 700 h.p. Average daily employment was 40 men.

General: An old channel of Grave Creek south of the present stream was dredged. Settling basins were constructed to settle mining mud. Work upstream was halted as bedrock became so deep it was impossible to clean bed rock.

Informant: Grants Pass Courier, January 27, 1937.

SHOT MINE (gold)

Greenback area

Also known as Dutch Girl

Owner: Will C. Smith, Box 421, Grants Pass, Oregon.

Location: On St. Peter Mt. in the NW $\frac{1}{4}$ sec. 33, T. 33 S., R. 5 W. Surface workings are on the Forest Service King Mountain road about 7 miles from U. S. Highway No. 99.

History: The property has been worked for about 50 years, starting about the same time as the Greenback Mine. Some of the ore was treated in an arrastra. Recently ore was treated at the Dale Prow mill.

Development: There are three tunnels containing underground work as follows: One is 200 feet long containing a raise 100 feet in length starting at a point 150 feet from the portal. The second tunnel is 258 feet long containing one raise now caved. The third tunnel is 180 feet long; the portal is now caved.

Geology: Country rock is gabbro and quartz diorite. There are three quartz veins roughly parallel included in a distance of 120 feet. One vein averages about 12 inches in width, trends east-west and dips 70° N. It has greenstone footwall and quartz diorite hanging wall, both walls showing gouge. This vein is lenticular and ranges up to 2 feet in width. Average value is reported to be \$40 per ton. Gold is both free and in combination with the sulphides galena and pyrite, the latter occurring in small cubes.

A north-south vein dipping 40° W. has not yet been explored by underground work. It is reported to assay about the same as the east-west vein mentioned above.

Informant: Will C. Smith and Alex Watts, July 5, 1940.

Report by: Ray C. Treasher.

TABLE 1. MINES, PROSPECTS, AND MINERALIZED AREAS OF JOSEPHINE COUNTY, OREGON

MINERAL RESOURCE MAP NUMBER	MINE OR PROSPECT NAME	LAND STATUS F - Federal C - County P - Private S - State	COMMODITY	IDENTIFICATION					ELEVATION (ft.)	GEOLOGIC FORMATION	MINERALIZATION TYPE	GEOLOGIC DESCRIPTION	GEOLOGY SURFACE AND/OR UNDERGROUND WORKINGS	PRODUCTION PAST PRODUCTION Gold - oz Copper - lb Chromite - long tons Limestone - short tons	FUTURE POTENTIAL	REMARKS	REFERENCES
				1/4	1/4	sec.	T.(S.)	R.(W.)									
		* Withdrawn from mineral entry; Wilderness or Wild River															
110	Stove Pipe	F	Gold	SW	NW	17	34	6	1,600	Qs, Jgs	Placer	Decomposed gravel of high channel; Brimstone Gulch; slate bed rock.	Small acreage mined in 1930's.	Production not reported.	C	ponds. Nugget weighing 34 oz found in 1934.	14
111	Glory Hole	F	Gold	SW	NE	8	34	6	1,600	Qs, Jgs	Placer	High channel gravels; slate bed rock.	Unknown.	No records.	C		16, 23
112	Grave Creek (Rogue River Gold Company)	P	Gold	— N½		9	34	6	1,120	Qs, Jgs	Placer	Old channel of Grave Creek; near Leland; slate bed rock.	115 acres dredged.	Operated 1935 to 1939; estimated production 17,000 oz.	C	Average depth of gravels is not reported but reason for discontinuing operations in 1939 was inability to clean bed rock.	14, 22, 23, 25
113	Copper Queen	F	Copper, gold, silver	NW	NE	15	34	6	1,950	Jrgv	Volcanogenic	Irregular masses of gossan capped pyrrhotite with some chalcopyrite in 30-ft northeast-striking zone at contact of slate and greenstone.	Seven tunnels and many test pits; about 1,000 ft of workings.	Two carloads of ore (100 tons) shipped in 1934; several carloads of copper ore shipped in 1916.	B	Explored with interest by mining companies, mid to late 1970's.	5, 14, 16, 23, 25
114	Grave Creek Chrome (Epperly)	F	Chromium	NW	NW	6	34	5	2,975	um	Magmatic segregation	Lenses of coarse-grained impure chromite in extremely hard serpentinite.	Two short adits and several surface cuts.	Estimated production a few tens of tons during World War I.	C		14, 19
115	Greenback	F	Gold	SE	SE	33	34	5	2,000	Rav, um	Quartz vein	East-west-trending quartz veins dip 60° N in greenstone; free gold; ore minerals are free gold, arsenopyrite, and other sulfides.	Twelve levels of workings totaling about 7,000 ft.	Production mainly in early 1900's reported to be about 175,000 oz.	B	Exploration continues from time to time on both Greenback and Irish Girl Veins.	1, 3, 4, 5, 7, 14, 16, 22, 25
116	Columbia	P	Gold	— —		5	34	5	1,750	Qs, Rav	Placer	Tom East Creek gravels; vary from 4 - 50 ft deep; gold reportedly fine; greenstone bed rock.	Channel or Tom East Creek was mined for over two mi to just above Greenback Mine.	Mined from 1890's to at least 1914 when production was estimated to be greater than 20,000 oz.	C	One of the most productive gold placers in southwest Oregon.	1, 3, 4, 5, 7, 14, 16, 22
117	Yellow Horn (Jim Blaine)	P	Gold	SE	SE	5	34	5	1,850	Rav	Quartz vein	One ft and three ft quartz vein in greenstone; pyrrhotite, pyrite, chalcopyrite and galena in east-west-trending, steeply dipping veins.	One adit 800 ft; two short adits and shaft of 150 ft total.	Operated during early 1900's; no production recorded.	C	½ mi southwest of Greenback.	2, 3, 4, 5, 14, 16, 22
118	Star	P	Gold	NE	SE	8	34	5	1,520	Rav	Quartz vein	Gold-bearing quartz east-west-striking vein in greenstone.	Two shafts, depth not reported.	Not reported.	C		5, 14, 16
119	Eastman #1	F	Copper	NE	SE	35	33	5	2,800	Rav	Quartz vein	Triassic metavolcanic rocks.	No information.	No information.	C	Reported to be a copper mine but probably is gold.	23
120	Gold Cup	F	Gold	SW	NE	2	34	5	2,200	Qs, Rav	Placer	Grave Creek gravel; greenstone bed rock.	No information.	Not reported.	C	Listed on USGS topographic map.	16, 23
121	Hoyden (Little Dandy)	P	Gold	SE	SE	13	34	6	1,600	Rav	Quartz vein	2-ft quartz vein in greenstone and serpentinite.	Two tunnels, 475 ft total.	Last operated 1940; periodic operation 1897 to 1940 produced 500 oz.	C		14, 22, 25
122	John Hall Group	F	Gold	SE	NE	18	34	5	1,900	Rav, um	Quartz vein	Many quartz veins and stringers up to 3 ft wide in greenstone, serpentinite, and slate.	Six tunnels and surface workings total about 1,500 ft.	Late 1800's and early 1900's production reported to be 5,000 oz.	C		14, 22
123	Daisy (Hammersley)	F	Gold	NE	SE	14	34	5	3,750	Rav	Quartz vein	East-west quartz veins and shear zones 3 ft wide in greenstone and serpentinite; gold-bearing quartz with pyrite.	Inclined shaft with four levels of workings and lower tunnel total about 1,700 ft.	Early-day production estimated to be 34,000 oz.	C		1, 3, 4, 5, 7, 14, 16, 22
124	McFarland	F	Gold	NE	NW	24	34	5	3,100	Qs	Placer	Channel and bench gravels.	Seasonal operation 1970's.	Small to moderate production from seasonal operation.	C		23
125	Jumpoff Joe (Cook and Howland)	F	Gold	NW	NE	24	34	5	2,800	Qs	Placer	Colluvium or old terrace gravels; irregular greenstone bed rock.	Not reported.	Not reported; operated mainly 1910-1915.	C		1, 3
126	Wood	F	Chromium	NE	NE	23	34	6	2,800	um	Magmatic segregation	Small lenses of massive to disseminated chromite in partly altered dunite.	Small surface cut.	None reported.	C		14, 19

(continued)

SITE NAME: GRAVE CREEK PLACER COUNTY: JOSEPHINE

SYNONYMS: ROGUE RIVER GOLD CO. DREDGE

OWNER:

MINING_DIS:GREENBACK

BLM DISTRICT:MEDF

USFS DISTRICT:

QUAD1: CANYONVILLE SCALE: 100000 TOWNSHIP: 34S

QUAD2: GLENDALE SCALE: 62500 RANGE: 06W

RIVER BASIN:15 SECTION: 09

PHYSIOG: 13 KLAMATH MOUNTAINS SECT_FRACT:

USGS NUM: M013399

LAT: 42-38-09N

DOGAMI MLR:

LONG: 123-24-24W

UPDATE BY: FERNS, MARK L.

UTM_N: 4720250

DATE OF UPDATE:81 05

UTM_E: 466650

UTM_Z: +10

ALTITUDE:

YR_DISC: STATUS: 4

PRODUCTION:YES

PRODUCTION SIZE:

COMMODITIES PRESENT:AU AG

YR 1ST PRO:

YR LAST PRO:

COMMODITIES PRODUCED:AU AG

ORE_MAT: GOLD

GANGUE:

DEPOS_TYP: PLACER

MIN_AGE:

HOST_ROCK: CHANNEL GRAVELS

HOST_R_AGE:QUAT

ALTERATION:

IGNEOUS_R:

IG_R_AGE:

ORE_CNTRL:

DEP_DESCOM:

GEOL_COM: OLD CHANNEL GRAVEL WITH SLATE BEDROCK

TYPE OF WORKINGS: SURFACE

WORKINGS DESCRIPTION:115 ACRES DREDGED

CUMULATIVE PRODUCTION (UNITS IN 1000'S)

ITEM1:	AU	ITEM2:	AG	ITEM3:	
AMT1:	17.000	AMT2:	1.500	AMT3:	
UNIT1:	TOZ	UNIT2:	TOZ	UNIT3:	
YEAR1:	1935-1939	YEAR2:	1935-1939	YEAR3:	
ITEM4:		ITEM5:			
AMT4:		AMT5:			
UNIT4:		UNIT5:			
YEAR4:		YEAR5:			

GENERAL COMMENTS:

REFERENCES:

RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 100, 45P

OREGON METAL MINES HANDBOOK, 1942, ODGMI BULL. 14-C, VOL. 2, SEC. 1, P. 115

Briggs Pocket	F	Gold	—	NE	14	41	6	5,000	Tras	Quartz vein	Surface concentration of free slag gold in narrow quartz vein in metavolcanic rock.	Shallow surface cuts only.	Minimum of 2,000 from small quartz ore.
Wild Deer	F	Manganese	SE	NW	8	41	5	2,000	Tras	Sedimentary	Manganese and iron oxides in quartzite (chert) associated with metavolcanic rock.	Several shallow prospect pits and trenches.	No production.
High Gap	F	Chromium	NW	NW	16	41	5	6,000	um	Magmatic segregation	High-iron chromite in serpentinite.	No information.	No production.
Sunset	F	Chromium	SE	NE	16	41	5	5,150	um	Magmatic segregation	Massive float chromite on serpentinite.	No information.	No production known.
Arnold	F	Gold	NE	NE	16	41	5	5,680	Tras	Quartz vein	2-ft-wide quartz vein with free gold and sulfides in metasedimentary rocks.	Two tunnels and long trench explore vein.	At least 600 oz produced to 1940.
Hinkle Lake	F	Manganese	NE	NW	10	41	5	5,500	Tras	Sedimentary	Mixed manganese and iron oxides in lenses and layers in quartzite.	Small trench.	No production.
Low Gap	F	Manganese	SW	SE	34	40	5	4,500	Tras	Sedimentary	Mixed manganese oxides and rhodonite as narrow bands in quartzite.	Shallow surface cuts.	No production.
Larkspur	F	Manganese	NE	SW	2	41	5	5,000	Tras	Sedimentary	Mixed manganese and iron oxides as bands and lenses in quartzite.	No workings.	No production.
Cynthia	F	Chromium	SE	NE	15	41	5	4,600	um	Magmatic segregation	Lenses of massive chromite in serpentinite.	Open cut 200 ft long, 25 ft wide, 15 ft deep.	135 tons produced plus a small amount World War I.



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inclined shaft. Chromite in serpentinite. Magmatic um 3,600 5 33 34 NE NW 34 34 33 5 3,600 um Magmatic Chromite in serpentinite. east (King Meadows)

March 16, 1942

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

ROGUE RIVER GOLD COMPANY

Greenback Area

Owner: Rogue River Gold Co., D. H. Ferry, Rogue River, Oregon, Vice President and Manager.

Location: One Grave Creek upstream from Leland in secs. 9 & 10, T. 34 S., R. 6 W.

History: The dredge was moved from Foots Creek, and began digging on September 25, 1935. Operation was discontinued in 1939 and later the dredge was dismantled and moved to Idaho.

Equipment: The dredge was a connected bucket type having a daily capacity of 8000 cubic yards. It was powered by 15 motors aggregating 700 h.p. Average daily employment was 40 men.

General: An old channel of Grave Creek south of the present stream was dredged. Settling basins were constructed to settle mining mud. Work upstream was halted as bedrock became so deep it was impossible to clean bed rock.

Informant: Grants Pass Courier, January 27, 1937.

RIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... M013399
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 FILE LINK ID..... CONSV
 MAP CODE NO. OF REC..

REPORTER

NAME..... LEE, W
 DATE..... 74 01
 UPDATED..... 81 05
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... GRAVE CREEK PLACER
 SYNONYM NAME..... ROGUE RIVER GOLD CO. DREDGE (1935-1939)

MINING DISTRICT/AREA/SUBDIST. GREENBACK

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

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

COUNTY..... JOSEPHINE
 DRAINAGE AREA..... 17100310 PACIFIC NORTHWEST
 PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS
 LAND CLASSIFICATION..... 01

QUAD SCALE QUAD NO OR NAME
 1: GLENDALE

LATITUDE LONGITUDE
 42-38-09N 123-24-24W

UTM NORTHING UTM EASTING UTM ZONE NO
 4720250. 466650. +10

TWP..... 34S
 RANGE..... 05W
 SECTION.. 09
 MERIDIAN. W.M.

COMMODITY INFORMATION

COMMODITIES PRESENT..... AU AG

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

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 8

EXPLOR. AND DEVELOP. COMMENTS:

DEPTH TO BEDROCK IS UNKNOWN. INABILITY TO CLEAN BED ROCK GIVEN AS REASON FOR DISCONTINUING OPERATION IN 1939.

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

PLACER

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... MEDIUM

DESCRIPTION OF WORKINGS
SURFACE

COMMENTS (DESCRIP. OF WORKINGS):

115 ACRES DREDGED

PRODUCTION

YES

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 AU	ACC	0005.607	DZ	1938	
2 AG	ACC	0000.564	DZ	1938	

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

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
15 AU	EST	0017.000	DZ	1935-1939	
16 AG	EST	0001.500	DZ	1935-1939	

SOURCE OF INFORMATION (PRODUCTION).. ODGMI FILES

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... QUAT
HOST ROCK TYPES..... CHANNEL GRAVELS