

# State Department of Geology and Mineral Industries <sup>A. D. L.</sup>

702 Woodlark Building  
Portland, Oregon

Report by: Ray C. Treasher,  
Date: June 8, 1943.

COBALT BLUE (Co, Ni ?)

Grants Pass area  
Josephine County

A small prospect in a serpentine area is reported as containing cobalt and nickel. The slicked serpentine (serpentite) contains some metallic particles which may be nickel-bearing. Spectrographic analysis showed no cobalt or nickel.

Owners: J. E. Hamlin, Rt. 3, Box 698, Grants Pass, Oreg.;  
P. C. Dressel; H. R. Flaiz.

Location: SW $\frac{1}{4}$  sec. 6, T. 36 S., R. 7 W., on the divide between Pickett and Shann Creeks, at an elevation of 4400 feet. Reached via Forest Service road to Onion Mtn.; at the southeast base of the mountain, a road goes down one mile to Hamlin's cabin. Then two miles by trail in an easterly direction.

Area: One claim, Cobalt Blue, located Dec. 24, 1942.

Development: One trench 15 feet long that ends in a "dog hole" that is five feet deep. Several small trenches are scattered across the claim.

Geology: Country rock is serpentine that has been sheared and altered to "serpentite", the slick, light-greenish alteration product of serpentine. Some of the "serpentite" contains tiny metallic particles. Sample 43-T-19 was sent for spectrographic testing as DQ 145. Results were "none".

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland 5, Oregon

PACK TRAIL CLAIM (Ni, Co)

Josephine County

Grants Pass Area

Old Name: Cobalt Blue (located Dec. 24, 1942).

Owner: John E. Hamlin, Route 3, Box 388, Grants Pass, Oregon.

Location: SW $\frac{1}{4}$  sec. 6, T. 36 S., R. 7 W. at an approximate elevation of 3300 feet (A) on the divide between Pickett and Shan Creek. The claim is 2.5 miles northeast of Onion Mountain road and 14.2 miles from the Redwoods Highway (U. S. 199). Onion Mountain road begins at the foot of Hayes Hill 14.8 miles south of Grants Pass via the Redwood Highway.

Detailed directions of the location of the claim follow:

Grants Pass along Redwoods Highway to Onion Mt. rd.	14.8 mi.
From Redwoods Highway travel along Onion Mt. road	14.2 "
Turn right (N.E.) from Onion Mt. road to Hamlin's cabin . . .	1 "
Then E. from Hamlin's cabin along "jeep" road to claim . .	1.5 "

Area: 1 claim called the Pack Trail.

Development: There are two bulldozer cuts, one on the north side of the road and another about 250 feet south of the road, and a trench 15 to 20 feet long south of the latter cut.

Geology: Bulldozer cuts expose irregular thin lenticular masses of magnetite in pale green and black sheared serpentine that also contains some small stringers or seams of pyrrhotite and thin films of dark green garnierite. The magnetite varies from  $\frac{1}{2}$  inch to almost 1-foot in width. The shear zone in the serpentine containing these minerals has an apparent strike to the north and <sup>is</sup> ~~are~~ nearly vertical.

Samples from this prospect and the results of their assays are listed below:

Sample No.	% Ni	% Co	% Cu	Description and Remarks
LG-605	6.71	.32		Magnetite with bright green stringers of garnierite; submitted by J. E. Hamlin 2/28/51.
MG-47	.14			Magnetite in serpentine. Submitted by J. E. Hamlin 2/20/52.
NG-245	3.81	.25	.50	Sheared serpentine containing magnetite, small masses, grains, and stringers of pyrrhotite, some malachite (?), limonite and dark green garnierite. Taken from bulldozer cut at 3300' elevation S. of road by D.J.W. - 7/7/53.
NG-246	.10			Magnetite in serpentine 200' lower in elevation and east of sample NG-245. Taken by D.J.W. - 7/7/53.

Visited by: D.J.W. & L.R. - 7/7/53.

Report by: D.J.W. - 9/23/53.

Also see attached report by: R.C.T. on Cobalt Blue Claim.

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Portland 5, Oregon

Report by: Ray C. Treasher  
Date: June 8, 1943

COBALT BLUE (Co, Ni ?)

Grants Pass Area  
Josephine County

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Area: One claim, Cobalt Blue, located Dec. 24, 1942.

Development: One trench 15 feet long that ends in a "dog hole" that is five feet deep. Several small trenches are scattered across the claim.

Geology: Country rock is serpentine that has been sheared and altered to "serpentite", the slick, light-greenish alteration product of serpentine. Some of the "serpentite" contains tiny metallic particles. Sample 43-T-19 was sent for spectrographic testing as DG-145. Results were "none".

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland 5, Oregon

Date July 1, 1943

The result of the analysis of Sample No. DG-145  
is listed below.

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

	Cobalt	Nickel			Mercury	Gold	Silver
Sample Number	Percent	Percent	Percent		lbs./ton	oz./ton	oz./ton
DG-145	None	None					

\_\_\_\_\_  
Assayer

Remarks:

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.

(Please print.)

COPY

COPY

Name John E. Hamlin Date sample is sent 7-13-56

Street/Box Route 3 Box 388 Name of property owners same

Grants Pass, Oregon 97526

City Grants Pass State Oregon ZIP Code 97526 Are you hiring labor? no

Milling or shipping ore? no

Name of claim sampled Pack Trail

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Josephine Mining district Grants Pass  
 Township 36 S Range 7 W Section 6 Quarter section \_\_\_\_\_  
 How far from passable road and name of road \_\_\_\_\_ Road to property \_\_\_\_\_ Name of Road Jeep Road

	Channel (length)	Grab	Assay for	Description
Sample No. 1		X	Ni, Co, Cu	

Sample No. 2 \_\_\_\_\_

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing, at least 5 lbs.)

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) /s/ John E. Hamlin

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

Description Heavy Mixture of magnetite and pyrrhotite in sheared serpentine with dark-green garnierite on shears.

Sample number	GOLD		SILVER		COBALT Co	COPPER Cu	Nickel Ni
	oz./T.	Value	oz./T.	Value			
P-1994 OG-95					0.59 %	1.60 %	4.96 %

Report issued \_\_\_\_\_ Card filed \_\_\_\_\_ Report mailed 7-25-56 Called for \_\_\_\_\_

SIR-5

Also 245 & 246

#3-NG-247  
#4-NG-248

2033 First Street  
Baker, Oregon

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
1069 State Office Building  
Portland 1, Oregon

239 S.E. "H" Street  
Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full David White

Post office address P.O. Box 417 Grants Pass, Oregon

Are you a citizen of Oregon Yes Date on which sample is sent 7-2-53

Name (or names) of owners of the property Hamlin

Are you hiring labor? \_\_\_\_\_

Name of claim sample obtained from Pack Trail

Are you milling or shipping ore? \_\_\_\_\_

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Josephine Mining district Grants Pass

Township 36 S Range 7 W Section 6 Quarter section SE/SW

How far from passable road and name of road 1 1/2 mi. Hamlin's Cabin--1 mi NE Onion Mt.

Channel (length)          Grab          Assay for          Description         

Sample no. 13 x Ident. From small pit on ridgetop

Sample no. 24 x Ident. From old open cut below main deser cut  
(Samples for assay should be at least 1 pound in weight.)

(Signed) David White

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Description #1 Gray, green and black serpentine with magnetite, malachite, cobalt

stain? (blue). #2 Fractured magnetite, serpentine with minor pyrrhotite (?) in

Sample number	GOLD		SILVER				
	oz./T.	Value	oz./T.	Value			
P-14767							
NG-247							
P-14768							
NG-248							

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

MG-47.  
Co. 7u

2033 First Street  
Baker, Oregon

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1069 State Office Building  
Portland 1, Oregon

239 S.E. "H" Street  
Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full John E. Hamlin

Post office address Rt. 3 Box 388 Grants Pass, Oregon

Are you a citizen of Oregon Yes Date on which sample is sent 2-20-52

Name (or names) of owners of the property John E. Hamlin

Are you hiring labor? \_\_\_\_\_

Name of claim sample obtained from Pack Trail

Are you milling or shipping ore? \_\_\_\_\_

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Josephine Mining district Grants Pass

Township 36 S Range 7 W Section 6 Quarter section \_\_\_\_\_

How far from passable road and name of road 2 miles Forest Service Road

Channel (length) Grab Assay for Description

Sample no. 1 x Co, Ni magnetite with serpentine

Sample no. 2 \_\_\_\_\_  
(Samples for assay should be at least 1 pound in weight.)

(Signed) John E. Hamlin

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Description magnetite in serpentine

Sample number	GOLD		SILVER		COBALT	NICKEL		
	oz./T.	Value	oz./T.	Value	Co	Ni		
P-12432 MG-47	---	--	---	--	Trace	0.14%	---	---

Report issued \_\_\_\_\_ Card filed \_\_\_\_\_ Report mailed 3-4-52 Called for \_\_\_\_\_



MG-47  
Co, Ni

2033 First Street  
Baker, Oregon

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
1069 State Office Building  
Portland 1, Oregon

239 S.E. "H" Street  
Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full John E. Hamlin

Post office address Rt. 3 Box 388 Grants Pass, Oregon

Are you a citizen of Oregon Yes Date on which sample is sent 2-20-52

Name (or names) of owners of the property John E. Hamlin

Are you hiring labor? \_\_\_\_\_

Name of claim sample obtained from Pack Trail

Are you milling or shipping ore? \_\_\_\_\_

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Josephine Mining district Grants Pass

Township 36 S Range 7 W Section 6 Quarter section \_\_\_\_\_

How far from passable road and name of road 2 miles Forest Service Road

Channel (length) Grab Assay for Description

Sample no. 1 x Co, Ni magnetite with serpentine

Sample no. 2 \_\_\_\_\_

(Samples for assay should be at least 1 pound in weight.)

(Signed) John E. Hamlin

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

Description magnetite in serpentine

Sample number	GOLD		SILVER		COBALT Co	NICKEL Ni		
	oz./T.	Value	oz./T.	Value				
P-12432 MG-47	---	--	---	--	Trace	0.14%	---	---

Report issued \_\_\_\_\_ Card filed \_\_\_\_\_ Report mailed 3-4-52 Called for \_\_\_\_\_

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

2033 First Street  
Baker, Oregon

1069 State Office Building  
Portland 1, Oregon

239 S.E. "H" Street  
Grants Pass, Oregon

LG-605  
Au, Co, Cr<sub>2</sub>O<sub>3</sub>, Ni, Pt.

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Your name in full John E. Hamlin

Post office address Route 3 Box 388 Grants Pass, Oregon

Are you a citizen of Oregon Yes Date on which sample is sent 9-28-51

Name (or names) of owners of the property same

Are you hiring labor? \_\_\_\_\_

Name of claim sample obtained from Pack Trail

Are you milling or shipping ore? \_\_\_\_\_

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Josephine Mining district Illinois River

Township 36 S Range 7 W Section 6 Quarter section \_\_\_\_\_

How far from passable road and name of road 2 miles

	Channel (length)	Grab	Assay for	Description
Sample no. 1	<u>2</u>	<u>x</u>	<u>Au, Co, Cr<sub>2</sub>O<sub>3</sub>, Ni, Pt</u>	<u>magnetite</u>

Sample no. 2 \_\_\_\_\_  
(Samples for assay should be at least 1 pound in weight.)

(Signed) John E. Hamlin

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Description Magnetite with bright green stringers of malachite or garnierite.

Some sulphides are present - pyrrhotite (?).

Sample number	GOLD		SILVER		COBALT	CHROME	NICKEL	PLATINUM
	oz./T.	Value	oz./T.	Value	Co	Cr <sub>2</sub> O <sub>3</sub>	Ni	Pt
LG-605 P-12051	Nil	--	---	--	0.32%	2.60%	6.71%	Nil

Report issued \_\_\_\_\_ Card filed \_\_\_\_\_ Report mailed 10-17-51 Called for \_\_\_\_\_

#1 - NG-245 - Co, Cu, Ni  
#2 - NG-246 - Co, Ni

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

2033 First Street  
Baker, Oregon

1069 State Office Building  
Portland 1, Oregon

239 S.E. "H" Street  
Grants Pass, Oregon

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The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full David White (DOGAMI)

Post office address P.O. Box 417 Grants Pass, Oregon

Are you a citizen of Oregon Yes Date on which sample is sent 7-8-53

Name (or names) of owners of the property J. E. Hamlin

Are you hiring labor? No

Name of claim sample obtained from Pack Trail

Are you milling or shipping ore? No

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Josephine Mining district Grants Pass

Township 36 S Range 7 W Section 6 Quarter section SW $\frac{1}{4}$

How far from passable road and name of road 1 $\frac{1}{2}$  mi. Hamlin's cabin, 1 mi. NE Onion Mt.

F.S. Road

Channel (length)          Grab          Assay for          Description         

Sample no. 1          x Co, Cu, Ni

Sample no. 2          x Co, Cu, Ni

(Samples for assay should be at least 1 pound in weight.)

(Signed) David White

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Description No. 1--Sheared serpentine containing magnetite, small masses, grains, and narrow stringers pyrrhotite, and some malachite (?) limonite, and dark green garnierite.

No. 2 - Magnetite in serpentine 200' below sample #1.

Sample number	GOLD		SILVER		COBALT	COPPER	NICKEL	
	oz./T.	Value	oz./T.	Value	Co	Cu	Ni	
P-14765 NG-245	---	--	---	--	0.25%	0.50%	3.81%	---
P-14766 NG-246	---	--	---	--	Trace	---	0.10%	---

Report issued          Card filed          Report mailed 7-22-53 Called for

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(Please print.)

C O P Y

C O P Y

Name John E. Hamlin Date sample is sent 7-3-54Street/Box Route 3 Box 388 Name of property owners same

Grants Pass, Oregon 97526

City Grants Pass State Oregon ZIP Code 97526Are you hiring labor? noMilling or shipping ore? noName of claim sampled Pack Trail

Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.)

County Josephine Mining district Grants PassTownship 36 S Range 7 W Section 6 Quarter section         How far from passable road and name of road 1 1/2 miles from Hamlin's Cabin

	Channel (length)	Grab	Assay for	Description
Sample No. 1		X	Co, Ni, Au	

Sample No. 2         

(Samples for assay should be at least 1 lb. in weight; clay samples for ceramic testing, at least 5 lbs.)

**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) /s/ John E. Hamlin**DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED**Description Serpentine with minor smaltite (?)

Sample number	GOLD		SILVER		COBALT Co	NICKEL Ni		
	oz./T.	Value	oz./T.	Value				
P-16688 OG-249	Nil	-----	----	---	0.20 %	2.87 %		

Report issued          Card filed          Report mailed 7-21-54 Called for         

SIR-5

CRIB MINERAL RESOURCES FILE 12

## RECORD IDENTIFICATION

RECORD NO..... M061868  
 RECORD TYPE..... XIM  
 COUNTRY/ORGANIZATION. USGS  
 DEPOSIT NO..... DDGMI 100-191  
 MAP CODE NO. DF REC..

## REPORTER

NAME..... SMITH, ROSCOE M.  
 DATE..... 78 08  
 UPDATED..... 81 03  
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

## NAME AND LOCATION

DEPOSIT NAME..... UNION MOUNTAIN NICKEL  
 SYNONYM NAME..... PACK TRAIL, COBALT BLUE

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..... 41

QUAD SCALE            QUAD NO OR NAME  
 1: 62500            SELMA

LATITUDE            LONGITUDE  
 42-27-54N            123-34-36W

UTM NORTHING        UTM EASTING        UTM ZONE NO  
 4701350.            452590.            +10

TWP..... 36S  
 RANGE..... 07W  
 SECTION.. 06  
 MERIDIAN. WB & M

ALTITUDE.. 3300

LOCATION COMMENTS: SW 1/4

MAIN COMMOD..... NI  
MINOR COMMOD..... CO CU

ORE MATERIALS (MINERALS, ROCKS, ETC.):  
GARNIERITE, PYRRHOTITE, MALACHITE, MAGNETITE

ANALYTICAL DATA (GENERAL)  
ASSAYS RAN 0.14 - 6.71 % NI; 0.25 - 0.32 % CO; 0.50 % CU

EXPLORATION AND DEVELOPMENT  
STATUS OF EXPLOR. OR DEV. 2

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:  
SHEAR ZONE  
FORM/SHAPE OF DEPOSIT:  
SIZE/DIRECTIONAL DATA  
SIZE OF DEPOSIT..... SMALL  
STRIKE OF OREBODY..... NORTH

DESCRIPTION OF WORKINGS  
SURFACE

COMMENTS (DESCRIP. OF WORKINGS):  
CUTS, TRENCHES

PRODUCTION  
UNDETERMINED  
23 SAMPLES - 1953 0.1-6.7 NI, 0.3 CO, 0.5 CU

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR  
HOST ROCK TYPES..... SERPENTINITE  
PERTINENT MINERALOGY..... SERPENTINE

LOCAL GEOLOGY

COMMENTS (GEOLOGY AND MINERALOGY):  
SHEAR ZONE IN SERPENTINE CONTAINS THIN LENSES OF MAGNETITE, STRINGERS OF PYRRHOTITE AND COATINGS OF GARNIERITE

GENERAL REFERENCES  
1) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; ODGM BULL. 100, 45P  
2) RAMP, L., 1979, INVESTIGATIONS OF NICKEL IN OREGON, OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES, BULL. 100, 45P