

RECORD IDENTIFICATION

RECORD NO..... M020190
RECORD TYPE..... X1M
INFORMATION SOURCE... 2
MAP CODE NO. OF REC..

REPORTER

NAME..... FERNS, MARK L. (BROOKS, HOWARD C.)
AFFILIATION..... DDGMI
DATE..... 81 05

NAME AND LOCATION

DEPOSIT NAME..... IRON HAT
MINING DISTRICT/AREA/SUBDIST. UPPER APPELEGATE
COUNTRY CODE..... JS
COUNTRY NAME: UNITED STATES

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

COUNTY..... JACKSON
DRAINAGE AREA..... 17100309 PACIFIC NORTHWEST
PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS
LAND CLASSIFICATION..... 41

QUAD SCALE QUAD NO OR NAME
1: 62500 TALENT (1954)

LATITUDE LONGITUDE
42-03-28N 122-51-33W

UTM NORTHING UTM EASTING UTM ZONE NO
4656000 511650 +10

TWP..... 041S
RANGE..... 001W
SECTION.. 30
MERIDIAN. WILLAMETTE

LOCATION COMMENTS: SE 1/4

COMMODITY INFORMATION

COMMODITIES PRESENT..... CU ZN

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):

ONE MATERIALS (MINERALS, ROCKS, ETC.)
MALACHITE

ANALYTICAL DATA (GENERAL)

0.12% CU; 0.004% ZN; TRACE AG (ODGMI)

EXPLORATION AND DEVELOPMENT

STATUS OF EXPLOR. OR DEV. 1

PRESENT/LAST OPERATOR.... HARLEY HALL, JACKSONVILLE OREGON (1976)

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

GOSSAN

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL
MAX LENGTH..... 150 FT
MAX WIDTH..... 50 FT

DESCRIPTION OF WORKINGS

SURFACE

COMMENTS (DESCRIP. OF WORKINGS):

SURFACE PIT

PRODUCTION

NO PRODUCTION

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PERM-TRI
HOST ROCK TYPES..... AMPHIBOLITE

AGE OF ASSOC. IGNEOUS ROCKS.. TRI?
IGNEOUS ROCK TYPES..... METASERPENTINITE

PERTINENT MINERALOGY..... QUARTZ, LIMONITE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

1) NAME: APPLGATE GROUP
AGE: PERM-TRI

COMMENTS (GEOLOGY AND MINERALOGY):

GOSSAN IN HIGHGRADE AMPHIBOLITES AND METASERPENTINITES OF THE APPLGATE GROUP

REQUEST FOR SAMPLE INFORMATION

Date: July 27-76 Sec. 30 Twp. 40 S R. 1 W. County: Jackson County
 (For your records) Upper Applegate Dist.

Please print name and address in space below

Len Ramp
 Department of Geology
 and Mineral Industries
 P.O. Box 417
 Grants Pass, Ore. 97526

A copy of the law governing this service is printed on the back of this sheet. Please fill out this form in triplicate and submit with your sample and analysis fee. One copy will be returned with the results entered in the space below.

Customer's Sample No.	Assay for	(for your records, if desired)		
		Grab	Channel (length)	Source of Sample
#1	Cu, Zn, Au, Ag		Trench at 6,000' elev.	Iron Hat (Harley Hall, Garry Remetes & Lee Hall)
#2	Au, Ag		On Ridge at 5,375' elev.	"
#1: Gossan chipped from trench on NE side of ridge.				
#2: Gossan in quartzite on bench of ridge to north.				

Samples should weigh at least one pound and be dry. Fee for analysis must accompany sample.
 Date Rec'd: _____ Amount Rec'd: **DOGAMI** Analysis Mailed: _____

Lab. No.	Cust. No.	Gold oz/ton	Silver oz/ton	Cu	Zn
39724 ①	AKG-44	nil	Trace	.118 %	.0041 %
②	-45	nil	Trace		

NOTE: The Department assumes responsibility only for the analytical results and not for the validity of any samples submitted.

Analyzed by Hughes, Wilson

Preliminary Report

IRON HAT PROSPECT (Gossan)

UPPER APPLGATE DISTRICT
JACKSON COUNTY

OWNERS: Harley Hall, Gary Remetes, and Lee Hall
Little Applegate Road, Jacksonville, Oregon 97530

LOCATION: The main gossan area is on the northeast side of a ridge about 1/2 mile north of Wrangle Camp in the SE $\frac{1}{4}$ Sec. 30, T. 40 S., R. 1 W., at 6,000 feet elevation. It is about 1/4 mile west of the Glade Creek - Wrangle Gap Road.

HISTORY & DEVELOPMENT: Originally prospected by Andrew Jeldness about 1921.

Present claims were located in June 1976.

When visited, development consisted of a shallow hand-dug trench about 12 feet long; 3 feet wide and 1 to 4 feet deep.

GEOLOGY: The gossan is a dark heavy porous to compact banded siliceous limonite, probably derived from massive sulfides. The surrounding rocks appear to be highly altered ultramafics consisting of varying amounts of serpentine minerals, tremolite and talc. Minor amounts of malachite occur in the serpentinite and in association with the gossan. A few pieces of pegmatite float appear to be associated with the gossan and much of the limonite appears to be derived from pyrite. Some granitic rocks and a large area of impure quartzite are exposed a short distance down the ridge to the north.

Width and length of the gossan are uncertain due to lack of exposure. The gossan may, however, be derived from a lenticular body of massive sulfides occurring in the ultramafics. A preliminary estimation of the size is about 50 feet by 150 feet; but further trenching or drilling are needed to expose the body.

Assays include the following:

AKG-44	7-27-76	Sampler - Ramp	Au - nil	Ag-Trace	Cu- .118%	Zn-.0041%
AKG-45	7-27-76	"""""" ""	Au - nil	Ag -Trace	- - - -	- - - -

Visited 7-23-76 P.M. with Harley Hall and Gary Remetes

Report by: Len Ramp 7-27-76

(Preliminary Report)
Iron Hat Prospect (Gossan)

Owners: Harley Hall, Gary Remetes, and Lee Hall
Little Applegate Road, Jacksonville, Oregon

Location:

The main gossan area is on the northeast side of a ridge about 1/2 mile north of Wrangle Camp in the SE 1/4 Sec 30, T. 40 N., R. 10 W. at 6,000 feet elevation. It is about 1/4 mile west of the Clado Creek - Wrangle Gap road.

History/Development: Originally prospected by Andrew Seldners about 1926.

Present Claims were located by June 1976.

When visited, development consisted of a shallow, ^{hand-dug} trench about 12 feet long, 3 feet wide and 1 to 4 feet deep.

Geology:

The gossan is a dark heavy porous to compact banded siliceous limonite probably derived from massive sulfides. The surrounding rocks appear to be highly altered ultramafics consisting of varying amounts of serpentine minerals, tremolite and talc.

~~mixtures~~ minor amounts of ~~secondary~~ malachite occur in the serpentinite and in association with the gossan. A few pieces of pegmatite float, ^{appear to be} ~~the~~ associated with the gossan and much of the limonite appears to be derived from pyrite. Some granitic rocks, ^{and a large area of impure quartzite} are exposed a short distance down the ridge to the north.

(Insert over)

Assays include The following:

Sample No.	Date	Sampler -	As	Ag	Cu	Zn
ARK-44		Boyer				

T S L

Laboratories Limited

NORTH 1003 WASHINGTON STREET, SPOKANE, WASHINGTON 99201

TELEPHONE: FA 7-9501

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Don Hansen
North 10921 Waikiki Rd.
Spokane, WA

Ivan Hot Prospect
Josephine Co

REPORT NO.
SP G-205

SAMPLE(S) OF Soil
SP No. Cust. No. Au ppm

		Station		Remarks
01.	9852	50' W	0.05	C Zone - Red-Br soil
02.	9859	250' W	0.10	C Zone, 50% rock frags
03.	9860	Adit sample	0.05	Basalt vein in Adit near Ditt. collar.
04.	9862	325' W	<0.05	B Zone - Red-Br soil
05.	9864	425' W	0.15	B-C Zone 10" deep 50% rock frags
06.	9866	525' W	0.20	B-C Zone, 6" deep 40% rock frags
07.	9868	625' W	0.05	B-C, crest of hill 20% rock frags
08.	9871	775' W	0.10	B-C, 6" deep, 20% frags
09.	9873	200' E	0.10	Fresh basalt etc. No alteration
10.	9874	300' E	<0.05	Grey soil, B-C
11.	9874 ⁵	400' E	<0.05	Brown soil 6" deep, B

Soil Sample

DATE April 19, 1974

SIGNED *E. L. Garner*

N.B. Samples discarded after 3 months unless otherwise requested.



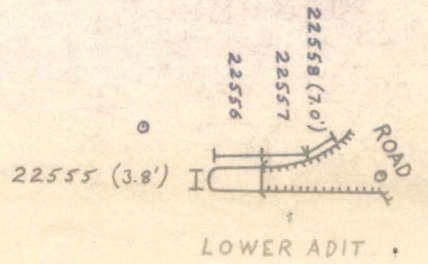
Visited 11-23-76 PM with Harley Hall and

Gary Remetes

Report 7-27-76 by Ken Camp

insert

Width and length of the gossan are uncertain due to lack of exposure. The gossan may, however, be derived from a lenticular body of massive sulfides occurring in the ultramafics. A preliminary estimation of the size is about 50 feet by 150 feet; but further trenching or drilling are needed to expose the body.



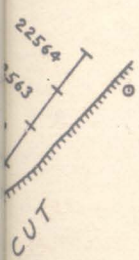
SAMPLE RESULTS

Sample No.	Au ppb	Ag ppm	Cu ppm	As ppm	Hg ppb
22535	-5	3.6	25	2	210
22536	-5	2.6	23	5	90
22537	-5	3.5	8	ND	45
22538	-5	4.0	3	5	25
22539	5	3.5	4	5	40
22540	5	4.0	4	ND	30
22541	-5	3.8	18	5	45
22542	-5	2.8	24	5	55
22543	5	1.8	14	5	50
22544	-5	1.5	18	ND	35
22545	5	2.0	28	2	50
22546	5	1.2	44	ND	70
22547	5	1.0	38	ND	55
22548	10	2.0	20	5	85
22549	-5	2.5	16	ND	45
22550	-5	1.6	8	5	55
22551	5	1.5	15	2	65
22552	-5	1.6	8	2	60
22553	5	1.6	8	5	35
22554	5	1.6	8	7	45
22555	-5	2.2	88	ND	55
22556	-5	2.2	100	ND	55
22557	-5	1.4	78	ND	45
22558	-5	1.2	55	ND	40
22559	-5	2.2	85	ND	145
22560	5	1.9	113	ND	160
22561	-5	1.3	76	ND	65
22562	-5	1.4	116	ND	90

IRON HAT PROSPECT
JOSEPHINE COUNTY, OREGON

SCALE: 1 in. = 40 ft.

22563	-5	1.0	67	ND	80
22564	-5	1.8	255	5	110



BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 26 - 1269

Page No. 2

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Ag* ppm	As ppm	Hg ppb	Mo ppm	Au ppb	Location
29316 + 29331 (Average)	(355) 340 ✓	15 ✓	272 ✓	0.2 ✓	(8) 9 ✓	(48) 40 ✓	- ✓	(8) 5 ✓	Gold Note, E-W Bar Line, Sta. 0+200E
29332	460 ✓	17 ✓	192 ✓	0.2 ✓	10 ✓	70 ✓	- ✓	5 ✓	Sta. 0+150E
29333	540 ✓	16 ✓	196 ✓	0.2 ✓	15 ✓	70 ✓	- ✓	10 ✓	Sta. 0+100E
29334	380 ✓	20 ✓	248 ✓	0.2 ✓	16 ✓	90 ✓	- ✓	< 5 ✓	Sta. 0+50E
29376	25 ✓	9 ✓	59 ✓	0.2 ✓	6 ✓	25 ✓	< 1 ✓	< 5 ✓	Iron Hat Prospect Line B, Sta. 0+200E
29377	29 ✓	10 ✓	56 ✓	0.2 ✓	5 ✓	20 ✓	< 1 ✓	< 5 ✓	Sta. 0+175E
29378	21 ✓	9 ✓	38 ✓	0.2 ✓	12 ✓	25 ✓	< 1 ✓	< 5 ✓	Sta. 0+150E
29379	35 ✓	8 ✓	36 ✓	0.2 ✓	7 ✓	20 ✓	< 1 ✓	< 5 ✓	Sta. 0+125E
29380	25 ✓	8 ✓	40 ✓	0.2 ✓	10 ✓	20 ✓	< 1 ✓	< 5 ✓	Sta. 0+100E
29381	21 ✓	6 ✓	36 ✓	0.2 ✓	12 ✓	20 ✓	< 1 ✓	< 5 ✓	Sta. 0+75E
29382	16 ✓	10 ✓	26 ✓	0.2 ✓	13 ✓	30 ✓	< 1 ✓	< 5 ✓	Sta. 0+50E
29383	27 ✓	8 ✓	40 ✓	0.2 ✓	7 ✓	10 ✓	< 1 ✓	< 5 ✓	Sta. 0+25E
29384	32 ✓	8 ✓	39 ✓	0.2 ✓	7 ✓	20 ✓	< 1 ✓	< 5 ✓	Sta. 0+00
29385	23 ✓	8 ✓	42 ✓	0.2 ✓	6 ✓	15 ✓	< 1 ✓	< 5 ✓	Iron Hat Prospect Line A, Sta. 0+00
29386	21 ✓	8 ✓	54 ✓	0.2 ✓	7 ✓	25 ✓	< 1 ✓	< 5 ✓	Sta. 0+25E
29387	25 ✓	9 ✓	54 ✓	0.2 ✓	6 ✓	20 ✓	< 1 ✓	< 5 ✓	Sta. 0+50E
29388	26 ✓	8 ✓	56 ✓	0.2 ✓	6 ✓	20 ✓	< 1 ✓	< 5 ✓	Sta. 0+75E
29389	28 ✓	8 ✓	64 ✓	0.2 ✓	6 ✓	25 ✓	< 1 ✓	5 ✓	Sta. 0+100E
29390	18 ✓	8 ✓	34 ✓	0.2 ✓	5 ✓	15 ✓	< 1 ✓	5 ✓	Sta. 0+125E
29391	16 ✓	8 ✓	33 ✓	0.2 ✓	7 ✓	20 ✓	< 1 ✓	10 ✓	Sta. 0+150E
29392	16 ✓	7 ✓	36 ✓	0.2 ✓	8 ✓	5 ✓	< 1 ✓	< 5 ✓	Sta. 0+175E
29393	28 ✓	9 ✓	54 ✓	0.2 ✓	8 ✓	10 ✓	< 1 ✓	< 5 ✓	Sta. 0+200E
29394	21 ✓	9 ✓	48 ✓	0.2 ✓	7 ✓	20 ✓	< 1 ✓	10 ✓	Sta. 0+225E
29395	14 ✓	8 ✓	36 ✓	0.2 ✓	7 ✓	20 ✓	< 1 ✓	< 5 ✓	Sta. 0+250E
Rocks 27300 (4.2')	220 ✓	11 ✓	121 ✓	0.2 ✓	4 ✓	280 ✓	- ✓	390 ✓	Silver Pk. area, ad. in NW $\frac{1}{4}$ NE $\frac{1}{4}$, 13-31-6
29276 (10')	590 ✓	37 ✓	132 ✓	0.3 ✓	12 ✓	25 ✓	- ✓	20 ✓	Silver Pk. area, rc cut in NW $\frac{1}{4}$ NE $\frac{1}{4}$, 13-
29277	400 ✓	14 ✓	44 ✓	0.2 ✓	8 ✓	5 ✓	- ✓	5 ✓	ditto (5.5 ft)
29278	660 ✓	11 ✓	156 ✓	0.2 ✓	6 ✓	20 ✓	- ✓	10 ✓	ditto (4.7 ft)
29279	235 ✓	12 ✓	200 ✓	0.2 ✓	5 ✓	10 ✓	- ✓	5 ✓	ditto (5.0 ft)
29280	1100 ✓	13 ✓	324 ✓	0.2 ✓	7 ✓	30 ✓	- ✓	50 ✓	ditto (6.7 ft)
29281 (3.0')	167 ✓	11 ✓	95 ✓	0.2 ✓	5 ✓	45 ✓	- ✓	20 ✓	Silver Pk. area, ad. in NW $\frac{1}{4}$ NE $\frac{1}{4}$, 13-31-6

DENISON MINES (U. S.) INCORPORATED

page 2

Iron Hat

A strong single conductive or moderately strong double conductive zone is located at approximately 50 feet south on Line N-S. The zone is very steep to perpendicular in attitude and is over 100 feet in width.

A strong single or moderately strong double conductive zone is located at approximately 0 on the east-west line. The zones are steep to perpendicular in attitude and over 100 feet in width.

Information from both lines suggest a dingle strong conductor cetnered at 0,0. The zone is conductive for over 100 feet in every direction from the point 0,0.

Sincerely,



S. Morris Hubbard
Project Geologist

SMH/cse

Encs.