

MEMORANDUM REPORT

WHISKEY PEAK MANGANESE LOCALITIES

Introduction:

July 21 and 22, 1950, Wallace Drew, Department field assistant, and the writer accompanied Mr. Clair W. Burch of Newport, Oregon, to two iron-manganese-bearing outcrops on the northwest slope of Whiskey Peak in southern Josephine County. Later Harold Wolfe accompanied two other prospectors to this area and inspected two manganese claims, namely Low Gap and Hinkle Lake. A copy of his reports on these claims is appended to this memorandum.

Location:

S $\frac{1}{2}$  sec 2, T. 41 S., R. 5 W. Travel south from Grants Pass to Applegate, turn south on Thompson Creek road immediately south of Applegate River bridge located south of Applegate. Directions from this point follow:

14.9 miles - from south end of Applegate River bridge to intersection of Thompson Creek road and Steve Fork road.

1.3 miles - to end of Steve Fork road

2.5 miles - by trail from Steve Fork road to Low Gap trail (sign on Steve Fork trail points to this trail).

2.0 miles (estimated) - up Low Gap trail to first outcrop located east of trail on the northeast side of

a small stream which flows northwestward toward Low Gap Creek.

$\frac{1}{2}$  mile - almost due east across country to second outcrop at 5,200 feet elevation (Aneroid).

Geology:

Wells (1940) mapped the area in the vicinity of Whiskey Peak as metavolcanic and metasedimentary rocks, and subsequently Wells (1949) mapped this series of rocks as they occur in the Kerby quadrangle as the Applegate Group. The Applegate Group has been determined to be of Triassic age.

Two occurrences of iron and manganese-bearing material associated with quartzite were observed on the northwest slope of Whiskey Peak. One occurrence was at 4,500 feet (Aneroid) and another at 5,200 feet (Aneroid). At the upper deposit, magnetite and manganese oxides filled fractures in pink, grey, and black banded quartzite, and a narrow zone bearing magnetite and manganese oxides is indicated as occurring along the northern edge of the quartzite. However, the exact lateral extent of these occurrences could not be determined because of the lack of development work.

Magnetic separation of the magnetite in portions of the samples taken from the two occurrences indicated a large percentage of iron in relation to manganese. Both samples were assayed for manganese only, and the results are listed under the Larkspur claim and the Low Gap Creek outcrop.

Probably the iron-manganese occurrences are of sedimentary origin and represent ferruginous-manganiferous shale

partings in bedded chert. Metamorphism resulted in the recrystallization of the chert to quartzite and the ferruginous-manganiferous layers to magnetite and rhodonite. Surficial weathering of the rhodonite has formed a minor amount of manganese oxides.

1. Larkspur Claim (Manganese)

Josephine County  
Waldo Mining District

Owner: Valoris Hoskins, Route 1, Box 24, Jacksonville,  
Oregon.

Location: SW $\frac{1}{4}$  sec. 2, T. 41 S., R. 5 W.

Geology: At about 5,200 feet in elevation on a spur trending northwest from Whiskey Peak and lying between Low Gap Creek and its east fork is a narrow saddle. Northwest of this saddle is a small peak rising about 100 feet above the lowest point in the saddle. Pink, grey, and black banded quartzite is exposed in the saddle. Manganese oxides fills joints in the quartzite. A small outcrop of magnetite and manganese oxides is exposed in the quartzite along the northwest side of the saddle and another small outcrop is located approximately 300 feet to the southwest of the saddle. A grey metamorphosed basic volcanic rock occurs along the northwest side of the quartzite. The quartzite strikes N. 60° E. and dips steeply to the SE. It was traced southwestward along the strike for about  $\frac{1}{4}$  mile. Judging from the iron-manganese float and the two outcrops, the iron-manganese zone is estimated to be about 500 feet in length and 1 to 2 feet wide. However, lack of development work prevented any

accurate measurement of the lateral extent of this zone.

No rhodonite was observed, but a sample submitted to the Department by Clair W. Burch and reported to have come from this saddle consisted of magnetite with small veinlets of pink rhodonite. This sample, P-9548, was analyzed as follows: 15.23 percent manganese (Mn); 36.40 percent iron (Fe); and 16.52 percent silica. A grab sample (P-10204) taken from the small outcrop in the saddle contained 8.88 percent manganese.

## 2. LOW GAP CREEK OUTCROP

At 4,500 feet approximately  $\frac{1}{2}$  mile about S. 70° W. of the Larkspur claim is an outcrop of hard black magnetite containing a minor amount of manganese. This outcrop is on the east side of Low Gap Creek trail about 25 feet above the trail on the northeast side of a northwest flowing tributary to Low Gap Creek. The outcrop was estimated to be 20 feet in length by two feet in width. White quartz stringers cut the magnetite. Sample P-10205 taken from this outcrop assayed 10.30 percent manganese. Although no quartzite was observed in place, it occurs as float below the outcrop, which indicates that the iron-manganese bearing material occurs under similar conditions as that at the Larkspur claim.

Report by: D.J.W., Dec. 1950.

3. LOW GAP CLAIM (Manganese)

Josephine County  
Walco Mining District

Owner: Ivan McDonough, Route 1, Box 24, Jacksonville,  
Oregon.

Area: One claim.

Location: E $\frac{1}{2}$  sec. 3, T. 41 S., R. 5 W., on west side of Low Gap Creek northwest of Whiskey Peak. The property may be reached from either Steve Fork road or by the Cougar Creek forest service road by approximately 5 miles of trail. The deposit is located at an estimated 4500' elevation.

Development: Two small cuts - one 15' long, 6' wide, 10' deep, and the other 8' long, 8' wide, and 5' deep.

Geology: The area has been mapped by Wells, (1) as part of a series of metavolcanic and metasedimentary rocks which predominate in the Applegate River drainage. This series has been subsequently termed the Applegate Group by Wells (2) and is considered to be of Triassic age.

The deposit consists of a body of rhodonite, possibly 10' in width, with associated superficial manganese oxides. The deposit occurs in dark quartzite and chert and appears to have an east-west strike. The body can be traced but a very short distance along the strike.

A sample from the deposit (KG-184) submitted by the owner assayed 24.35 percent manganese and 1.62 percent iron.

Report by: H. D. Wolfe

(For references etc see page 6)

LOW GAP CLAIM (references)

Date of visit: August 23, 1950

Date of report: September 28, 1950

Informant: Ivan McDonough

References:

- (1) Wells, F.G. - Preliminary geologic map of the Grants Pass quadrangle, Oregon DOGAMI, 1940.
- (2) Wells, F. G. - Preliminary description of the geology of the Kerby quadrangle, Oregon DOGAMI, Bulletin 40, 1949.

\* \* \* \* \*

HINKLET LAKE CLAIM (Manganese)

Josephine County  
Waldo Mining District

Owner: Ivan McDonough, Route 1, Box 24, Jacksonville, Oregon

Area: One claim.

Location: N $\frac{1}{2}$  sec. 10, T. 41 S., R. 5 W., ridge between O'Connell and Low Gap creeks west of Whiskey Peak. The property may be reached from either the Steve Fork road or the Cougar Creek forest service road, by an estimated 6 miles of trail. The deposit is located at an estimated 5500' elevation.

Development: One small cut 15' long, 6' wide and 10' deep.

Geology: The locality is made up principally of a series of metavolcanic and metasedimentary rocks which have a prevailing strike to the northeast and the dip steeply to the southeast as mapped by Wells.

The prevalent rock type in the immediate vicinity of the deposit is a fine-grained dark quartzite. The deposit consists

HINKLE LAKE CLAIM (continued)

of a zone in the quartzite, several feet in width which contains varying amounts of manganese oxides and rarely narrow veins of rhodonite. At the cut the manganese zone appears to be at least 10' in width although the exact limits could not be determined. The zone strikes N. 20° E. and dips to the southeast at an indeterminate angle. The zone can be traced by float for at least 200' along the strike.

A grab sample (KG-235) taken from the dump of the open cut at the time of the examination showed 3.40 percent of manganese.

Report by: H. D. Wolfe

Date of visit: August 23, 1950

Date of report: September 28, 1950

Informant: Ivan McDonough

References: Wells, F. G. - Preliminary geologic map of the Grants Pass quadrangle, Oregon. DOGAMI, 1940.

*TRACED & NEGATIVE IN FILE 23-8*

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland 5, Oregon

## WHISKEY PEAK MANGANESE LOCALITIES

Supplemental to report by DJW, 1950

Introduction: August 12, 1953 Dick Appling, Eaden Patten, Ben Lettken and Jerry Briggs of the U. S. Bureau of Mines, D. D. Loper, a prospector, and the writer made a pack trip into Hinkle Lake at the head of O'Connell Creek in Sec. 9, T. 41 S., R. 5 W. Hinkle Lake was to be camp headquarters from which four days were to be spent investigating the known and reported deposits of manganese in the Whiskey Peak area. Our food and camp supplies were dropped to us from an airplane. The food box hung in the top of a fir tree and as we were unable to get the box down, we had to return to Grants Pass the next day. We hiked into Hinkle Lake from the end of the road on Steve Fork along the west side of Low Gap Creek to about 4500 feet in elevation and southwestward across the ridge between Low Gap Creek and O'Connell Creek.

August 19 the same U. S. Bureau of Mines personnel and the writer obtained two pack horses from a Mr. Dawson near Steamboat and packed into Hinkle Lake again. This trip a logging road beginning at a sawmill on Carberry Creek 1.9 miles south of Steamboat and extending along the north side of Horse Creek (Indian Creek on Grants Pass topographic sheet) to about 4900 feet in elevation provided access to the long narrow ridge extending northeasterly from Whiskey Peak. The last 1/8 to 1/4 mile of this road is on the south side of Horse Creek. West of the end of the road at about 5200 feet in elevation is a trail that leads past Whiskey Peak to Low Gap. From Low Gap at the head of Low Gap Creek we walked northwest-



ward over a ridge into Hinkle Lake. August 20 and 21 were spent searching the Whiskey Peak area for manganese occurrences.

Results: The following claims were examined and samples were taken: Hinkle Lake, Low Gap, and Larkspur. As the geology in the vicinity of these claims is discussed in the original report (DJW 1950) only the sketches and results of the assays of samples taken will be included in this supplemental report. Attempts to locate other reported claims and occurrences were not successful.

The assay results are tabulated below. Splits of each sample were analyzed by John Long of the Grants Pass Chrome Company for the U. S. Bureau of Mines and by L. L. Hoagland of this Department.

Sample No.	Description and Location	Mn	Fe	Insoluble (Silica)
P-15218	Grab sample of magnetite and manganese oxides in quartzite from Hinkle Lake No. 3 claim	2.94	10.56	77.90
USEM-820	same	4.0	9.19	63.9
P-15219	Grab sample of quartzite containing thin lenses of magnetite and manganese oxides parallel to bedding or lineation from Larkspur claim	3.60	19.00	67.16
USEM-821	same	5.6	20.4	55.0
P-15220	Grab sample of rhodonite partially altered to manganese oxides from Low Gap No. 4 claim	31.92	1.33	39.20
USEM-819	same	44.9	2.8	22.8

Report by: DJW 5-6-54

ward over a ridge into Hinkle Lake. August 20 and 21 were spent searching the Whiskey Peak area for manganese occurrences.

Results: The following claims were examined and samples were taken: Hinkle Lake, Low Gap, and Larkspur. As the geology in the vicinity of these claims is discussed in the original report (DJW 1950) only the sketches and results of the assays of samples taken will be included in this supplemental report. Attempts to locate other reported claims and occurrences were not successful.

The assay results are tabulated below. Splits of each sample were analyzed by John Long of the Grants Pass Chroma Company for the U. S. Bureau of Mines and by L. L. Hoagland of this Department.

Sample No.	Description and Location	Mn	Fe	Insoluble (Silica)
P-15218	Grab sample of magnetite and manganese oxides in quartzite from Hinkle Lake No. 3 claim	2.94	10.56	77.90
USBM-821	same	4.8 <sup>x</sup>	20.4 <sup>x</sup>	—
P-15219	Grab sample of quartzite containing thin lenses of magnetite and manganese oxides parallel to bedding or lineation from Larkspur claim	3.60	19.00	67.16
USBM-820	same	3.8 <sup>x</sup>	9.9 <sup>x</sup>	—
P-15220	Grab sample of rhodonite partially altered to manganese oxides from Low Gap No. 4 claim	31.92	1.33	39.20
USBM-819	same	40.90 <sup>x</sup>	2.8	—

Report by: DJW 5-6-54

X SEE ATTACHED SHEET & LETTER FROM LEN RAMP 6-4-54

RECORD IDENTIFICATION

RECORD NO..... M061520  
RECORD TYPE..... X1M  
COUNTRY/ORGANIZATION. USGS  
DEPOSIT NO..... DDGMI 100-467  
MAP CODE NO. OF REC..

REPORTER

NAME..... JOHNSON, MAUREEN G.  
UPDATED..... 81 03  
BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... HINKLE LAKE CLAIM  
*Whiskey Peak Mg*  
COUNTRY CODE..... US  
COUNTRY NAME: UNITED STATES  
STATE CODE..... OR  
STATE NAME: OREGON  
COUNTY..... JOSEPHINE  
DRAINAGE AREA..... 1710009 PACIFIC NORTHWEST  
PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS  
LAND CLASSIFICATION..... 41

QUAD SCALE QUAD NO OR NAME  
1: 62500 OREGON CAVES

LATITUDE LONGITUDE  
42-01-22N 123-16-49W

UTM NORTHING UTM EASTING UTM ZONE NO  
4652125.0 476800.0 +10

TWP..... 41S  
RANGE..... 05N  
SECTION.. 10  
MERIDIAN. W.M.

COMMODITY INFORMATION

COMMODITIES PRESENT..... MN FE FE

MAIN COMMOD..... MN  
MINOR COMMOD..... FE



COMMODITY COMMENTS:  
MANGANIFEROUS IRON DEPOSITS

EXPLORATION AND DEVELOPMENT  
STATUS OF EXPLOR. OR DEV. 2

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

CHEMICAL SEDIMENTARY  
FORM/SHAPE OF DEPOSIT: BANDS, LENS

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL  
MAX LENGTH..... 270 FT  
MAX WIDTH..... 8 FT.  
STRIKE OF OREBODY.... N50E  
DIP OF OREBODY..... 70N

DESCRIPTION OF WORKINGS  
SURFACE

COMMENTS (DESCRIP. OF WORKINGS):  
TRENCH 5X12X8 DEEP

PRODUCTION  
NO PRODUCTION

ANNUAL PRODUCTION (ORE, COMMOD., CONC., OVERBURD.)  
23 MN, OCCUR SAMPLE 4 MN, 9 FE, 64 SIO2

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PERM-TRI  
HOST ROCK TYPES..... QUARTZITE  
PERTINENT MINERALOGY..... HEMATITE, MAGNETITE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES  
AGE: PERM TRI  
2) NAME: APPLGATE GROUP

GENERAL REFERENCES

1) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON: OREGON BULL. 10



NG-343  
Mn, Fe, SiO<sub>2</sub>

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

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.

Copy

Your name in full David J. 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 9-11-53

Name (or names) of owners of the property Unknown

Are you hiring labor?

Name of claim sample obtained from Larkspur Claim

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 Waldo

Township 41 S Range 5 W Section 2 Quarter section

How far from passable road and name of road 5-7 miles from Carberry Crk. Rd.

Channel (length) Grab Assay for Description

Sample no. 1  Mn, Fe, SiO<sub>2</sub>

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

(Signed) David J. White

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

Description Split of crushed sample of grab sample of magnetite and manganese oxides in quartzite to check U.S.B.M.

Sample number	GOLD		SILVER		MANGANESE	IRON	INSOLUBLE
	oz./T.	Value	oz./T.	Value	Mn	Fe	(SILICA)
NG-343 P-15219	---	---	---	---	3.60%	19.00%	67.16%
USBM-820					3.8	9.9	

Report issued  Card filed  Report mailed 9-24-53 Called for



NG-342  
Mn, Fe, SiO<sub>2</sub>

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

copy

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Your name in full David J. 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 9-11-53

Name (or names) of owners of the property Unknown

Are you hiring labor?

Name of claim sample obtained from Hinkle Lake No. 3

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 Waldo

Township 41 S Range 5 W Section 10 Quarter section

How far from passable road and name of road 5-7 miles to Carberry Crk. Rd.

Channel (length) Grab Assay for  Description

Sample no. 1  Mn, Fe, SiO<sub>2</sub>

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

(Signed) David J. White

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Description Split of crushed grab sample of magnetite and manganese oxides in quartzite to check U.S.B.M. assays

Sample number	GOLD		SILVER		MANGANESE	IRON	INSOLUBLE
	oz./T.	Value	oz./T.	Value	Mn	Fe	(SILICA)
NG-342							
P-15218	---	---	---	---	2.94%	10.56%	77.90%
USBM-821					4.8	20.4	

Report issued  Card filed  Report mailed 9-24-53 Called for



NG-344  
Mn, Fe, SiO<sub>2</sub>

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

copy

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Your name in full David J. 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 9-11-53

Name (or names) of owners of the property Unknown

Are you hiring labor?

Name of claim sample obtained from Low Gap #4

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 Waldo

Township 41 S Range 5 W Section 3 Quarter section

How far from passable road and name of road 5-7 miles from Carberry Creek Rd.

Channel (length) Grab Assay for Description

Sample no. 1  Mn, Fe, SiO<sub>2</sub>

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

(Signed) David J. White

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

Description Split from crushed grab sample of rhodonite partially altered to manganese oxides to check U.S.B.M. assays.

Sample number	GOLD		SILVER		MANGANESE	IRON	INSOLUBLE	
	oz./T.	Value	oz./T.	Value	Mn	Fe	(SILICA)	
NG-344 P-15220	---	---	---	---	31.92%	1.33%	39.20%	---
US BM-819					40.90	2.8		

Report issued  Card filed  Report mailed 9-24-53 Called for



Directions to field man:

Who will accompany field man to property? . . . . . I will . . . . .  
Can we drive right to the property? No . . . . . What kind of road is it? Forest Service-Fair  
How far must we pack equipment, samples, etc., from the road? Near 8 mi. . . . . .  
During what months is the property not accessible? Winter Months-near 5000 ft. . . . . .  
Detailed road and trail directions for getting from nearest Postoffice to property; or to place where field man will meet you or the guide:

. . . . . Will detail directions, when go through Grant's Pass, to field geologist. . . . . .  
. . . . .  
. . . . .

Description of property to be examined:

What kind of property: . . . Gold lode? . . . . . Placer? . . . . . Other? Rhodonite-Manganese . . . . .

History: Is the property a prospect? Yes . . . . . A past producing mine now idle? . . . . .

Is it producing now? . . . . . During what periods was it in production? . . . . .

Development: Describe the surface workings (open-cuts, pits, trenches) that are cleaned out so that we can see the rock or ore in place. . . . .

. . . . . Can see ore in three places in 1/2 mi. maybe more. . . . . .

How many feet of underground workings (tunnels, cross-cuts, drifts, shafts, raises) approximately are open so that we can examine the rock or ore? . . . . .

. . . . . Over 1/2 mile outcropping although covered mostly. . . . . .

How many dumps are there? . . . . . Do you have a claim map of the property? . . . . .

Map of workings? . . . . . Assay map? . . . . . Mill flow sheet? . . . . . Engineer's report? . . . . .

How many samples have been taken and assayed? one . . . . .

\*\*\*\*\*

FOR OFFICE RECORDS ONLY

Date request received. . . . . 194 . . . . . Date set for visit . . . . . 194 . . . . .

Date property visited. . . . . 194 . . . . . by: . . . . .

Cost of inspection: Salary . . . . .  
Meals and Lodging . . . . .  
Car Mileage-cost at 4¢ . . . . .  
Total



REQUEST FOR INSPECTION OF PROPERTY

by

State Department of Geology and Mineral Industries

400 East I Street  
Grants Pass

702 Woodlark Building  
Portland

2102 Court Street  
Baker

PLEASE READ THIS CAREFULLY BEFORE FILLING IN BLANKS

Every blank should be completely filled in. The reasons are that: We cannot examine all of the properties we are asked to examine because we do not have enough engineers to go around. Our funds and personnel are limited. It costs the State a substantial amount for the examination of your property. We are just as anxious to examine it as you are to have us do so. Therefore, in order that there shall be no loss of time, we must know exactly where your property is, how to get to it, where to meet you or someone who can take us in, and how much there is to be seen. You'd be surprised how often people, in directing us to their own properties, give directions which are not clear or which are confusing or incomplete. Sometimes we lose hours or a full day which could have been saved if the blank had been properly filled in. Please give us a break and put down all the dope!

Fill in accurately all the following blanks as fully as possible (even if the answer is "No"), and mail this form to the office address above, nearest to your property. A field engineer will then get in touch with you and arrange for the trip.

Date Feb. 14 . . . 1950 . . .

Inspection requested by:

Owner of property:

Name: Clair W. Burch . . . . .

Name: Clair W. Burch . . . . .

Address: Newport, Ore. . . . . .

Address: Newport, Ore. . . . . .

What is property commonly called? . . . . . No Name . . . . .

What is your own interest in property?

Location of property:

Owner: . . . . . Partner: . . . . .

County: Josephine . . . . . Postoffice: . . . . .

Lessee: . . . . . Other: . . . . .

Section: 12 . . . . . Township: 41 S . . . . . Range: 5 W . . . . .

What is the problem that is bothering you most? In other words, is it geological, metallurgical (milling), mining, how to continue exploration, financial, or what?

I would like to have this ledge looked over to see if it would warrant going ahead and working one. The State Dept. seems to be interested in this proposition as it has possibilities some time in the future of maybe being an asset, that is, if there is enough tonnage. That is why I would like to have field geologist look over proposition.



taken from the two occurrences indicated a large percentage of iron in relation to manganese. Both samples were assayed for manganese only, and the results are listed under the Larkspur claim and the Low Gap Creek outcrop.

Probably the iron-manganese occurrences are of sedimentary origin and represent ferruginous-manganiferous shale partings in bedded chert. Metamorphism resulted in the recrystallization of the chert to quartzite and the ferruginous-manganiferous layers to magnetite and rhodonite. Surficial weathering of the rhodonite has formed a minor amount of manganese oxides

1. Larkspur Claim (Manganese)

Josephine County  
Waldo Mining District

Owner: Valoris Hoskins, Route 1, Box 24, Jacksonville, Oregon

Location: SW $\frac{1}{4}$  sec. 2, T. 41 S., R. 5 W.

Geology: At about 5,200 feet in elevation on a spur trending northwest from Whiskey Peak and lying between Low Gap Creek and its east fork is a narrow saddle. Northwest of this saddle is a small <sup>peak</sup> ~~pointed~~ ~~tit~~ rising about 100 feet above the lowest point in the saddle. Pink, grey, and black banded quartzite is exposed in the saddle. Manganese oxides

fill joints in quartzite. A small outcrop of magnetite and manganese oxides is exposed in the quartzite along the northwest side of the saddle and another small outcrop is located approximately 300 feet to the southwest of the saddle. A grey metamorphosed basic volcanic rock occurs along the northwest side of the quartzite. The quartzite strikes N. 50°-60° E. and dips steeply to the SE. It was traced southwestward along the strike for about  $\frac{1}{4}$  mile. Judging from the iron-manganese float and the two outcrops, the iron-manganese zone is estimated to be about 500 feet in length and 1 to 2 feet wide. However, lack of development work prevented any accurate measurement of the lateral extent of this zone.

No rhodonite was observed, but a sample submitted to the Department by Clair W. Burch and reported to have come from this saddle consisted of magnetite with small veinlets of pink rhodonite. The sample, P-9548, was analyzed as follows: 15.23 percent manganese (Mn); 36.40 percent iron (Fe); and 16.52 percent silica. A grab sample (P-10204) taken from the small outcrop in the saddle contained 8.88 percent manganese.

## 2. LOW GAP CREEK OUTCROP

At 4,500 feet approximately  $\frac{1}{2}$  mile about S. 70° W. of the Larkspur claim is an outcrop of hard black magnetite containing a minor



amount of manganese. This outcrop is on the east side of Low Gap Creek trail about 25 feet above the trail on the northeast side of a northwest flowing tributary to Low Gap Creek. The outcrop was estimated to be 20 feet in length by two feet in width. White quartz stringers cut the magnetite. Sample P-10205 taken from this outcrop assayed 10.30 percent manganese. Although no quartzite was observed in place, it occurs as float below the outcrop, which indicates that the iron-manganese bearing material occurs under similar conditions as that at the Larkspur claim.

Report by: D.J.W., Dec. 1950.