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\T 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.

½ 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 re-
recrystallization of the chert to quartzite and the ferrugin-
ous-manganiferous layers to magnetite and rhodonite. Surfici-
inal weathering of the rhodonite has formed a minor amount of
manganese oxides.

1. Larkspur Claim (Manganese) Waldo Mining District
Josephine County
Owner: Valoria Hoskins, Route 1, Box 24, Jacksonville,
Oregon.
Location: SW¼ 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 band-
ed 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 sad-
dle. 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 south-
westward along the strike for about 1 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 ½ 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.

3. **LOW GAP CLAIM (Manganese)**

**Location:** 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.

HINKLET LAKE CLAIM (Manganese)

Owner: Ivan McDonough, Route 1, Box 24, Jacksonville, Oregon
Area: One claim.
Location: NE 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
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. DOCAMI, 1940.
Introduction: August 12, 1953 Dick Appling, Edan Pattee, 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.

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

Report by: DJW 5-6-54
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<td>same</td>
<td>4.8&lt;sup&gt;x&lt;/sup&gt;</td>
<td>20.4&lt;sup&gt;x&lt;/sup&gt;</td>
<td>---</td>
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<td>39.20</td>
</tr>
<tr>
<td>USBM-819</td>
<td>same</td>
<td>40.90&lt;sup&gt;x&lt;/sup&gt;</td>
<td>2.8</td>
<td>---</td>
</tr>
</tbody>
</table>

Report by: DJW 5-6-54

<sup>x</sup> See attached Sheet & Letter from Len Rapp 6-4-54
COUNTRY/Organization: USGS
DEPOSIT NO.: ODGM 100-457
MAP CODE NO. OF RECORD: 20

RECORD IDENTIFICATION
RECORD NO.: MG61520
RECORD TYPE: XIN
COUNTRY/Organization: USGS
DEPOSIT NO.: ODGM 100-457
MAP CODE NO. OF RECORD: 20

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

NAME AND LOCATION
DEPOSIT NAME: HINKLE LAKE CLAIM
COUNTY: JOSEPHINE
COUNTRY CODE: US
COUNTRY NAME: UNITED STATES
STATE CODE: OR
STATE NAME: OREGON
COUNTY: JOSEPHINE
DRAINAGE AREA: 1710309 PACIFIC NORTHWEST
PHYSIOGRAPHIC PROV.: 13 KLAMATH MOUNTAINS
LAND CLASSIFICATION: 41
QUAD SCALE: 62500
QUAD NO OR NAME: OREGON CAVES
LATITUDE: 42-01-22N
LONGITUDE: 123-16-49W
UTM NORTHING: 4652125.0
UTM EASTING: 476800.0
UTM ZONE NO: 10
TWI: 41S
RANGE: 05W
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, LENSES

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 (DESCRIPTION OF WORKINGS):
TRENCH 5X12X8 DEEP

PRODUCTION
NO PRODUCTION

ANNUAL PRODUCTION (ORE, COMMOD., CONC., OVERBURD.):
23 MN, OCCUR SAMPLE 4 MN, 9 FE, 64 SIC2

GEOLGY 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: APPLEGATE GROUP

GENERAL REFERENCES
1) RAMP, L. AND PETERSON, N.W., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON: U.S.G. BULL. 100
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 J. White (DOGMAN)

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, SiO₂

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.

<table>
<thead>
<tr>
<th>Sample number</th>
<th>GOLD</th>
<th>SILVER</th>
<th>MANGANESE</th>
<th>IRON</th>
<th>INSOLUBLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>oz./T. Value</td>
<td>oz./T. Value</td>
<td>Mn</td>
<td>Fe</td>
<td>(SILICA)</td>
</tr>
<tr>
<td>NG-343</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3.60%</td>
<td>19.00%</td>
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<tr>
<td>P-15219</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>USBM-820</td>
<td>-</td>
<td>-</td>
<td>3.8</td>
<td>9.9</td>
<td></td>
</tr>
</tbody>
</table>

Report issued: [ ] Card filed: [ ] Report mailed: 9-24-53 Called for: [ ]

SIR-5
STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

2033 First Street 1069 State Office Building 239 S.E. "H" Street
Baker, Oregon Portland 1, Oregon Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

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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 _______ 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 ______

Lining 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 ____________________________ Mn Fe SiO2 ______

Sample no. 1 ____________________________ ____________

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 grab sample of magnetite and manganese oxides in quartzite

to check U.S.B.M. assays

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<td></td>
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<td>77.90%</td>
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<td></td>
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SIR-5
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Your name in full: David J. White (DGM1G)
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 Carberrry Creek Rd.
Channel (length): __ Grab Assay for Description
Sample no. 1: Mn, Fe, SiO2
Sample no. 2: (Samples for assay should be at least 1 pound in weight.)
(Signed) David J. White

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

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<td>oz./T.</td>
<td>Value</td>
<td>oz./T.</td>
<td>Value</td>
<td>Mn</td>
</tr>
<tr>
<td>NG-344</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td>31.92%</td>
</tr>
<tr>
<td>P-15220</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td>40.90%</td>
</tr>
<tr>
<td>US BM-89</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

Directions to field man:

Who will accompany field man to property?  

Can we drive right to the property?  

What kind of road is it? 

How far must we pack equipment, samples, etc., from the road? 

During what months is the property not accessible? 

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 Grants Pass, to field geologist.

Description of property to be examined:

What kind of property: Gold lode? Placer? Other? 

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 cropping although covered mostly.

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


How many samples have been taken and assayed?

FOR OFFICE RECORDS ONLY

Date request received: 1944 Date set for visit: 1944 

Date property visited: 1944 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 1st 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.

---

Inspection requested by:  
Name: Clair W. Burch  
Address: Newport, Ore.

Owner of property:  
Name:  
Address: Newport, Ore.

What is property commonly called?  
No Name

What is your own interest in property?  
Owner

Location of property:  
County: Josephine
Postoffice: 
Section: 1
Township: 4S
Range: 5W

What is the problem that is bothering you most?  
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 there 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 Hoskings, Route 1, Box 24, Jacksonville, Oregon

Location: SW¼ 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 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 gray metamorphosed basic volcanic rock occurs along the northwest side of the quartzite. The quartzite strikes N. 50°-60° W. and dips steeply to the SE. It was traced southwestward along the strike for about ¼ 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 ¼ 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.