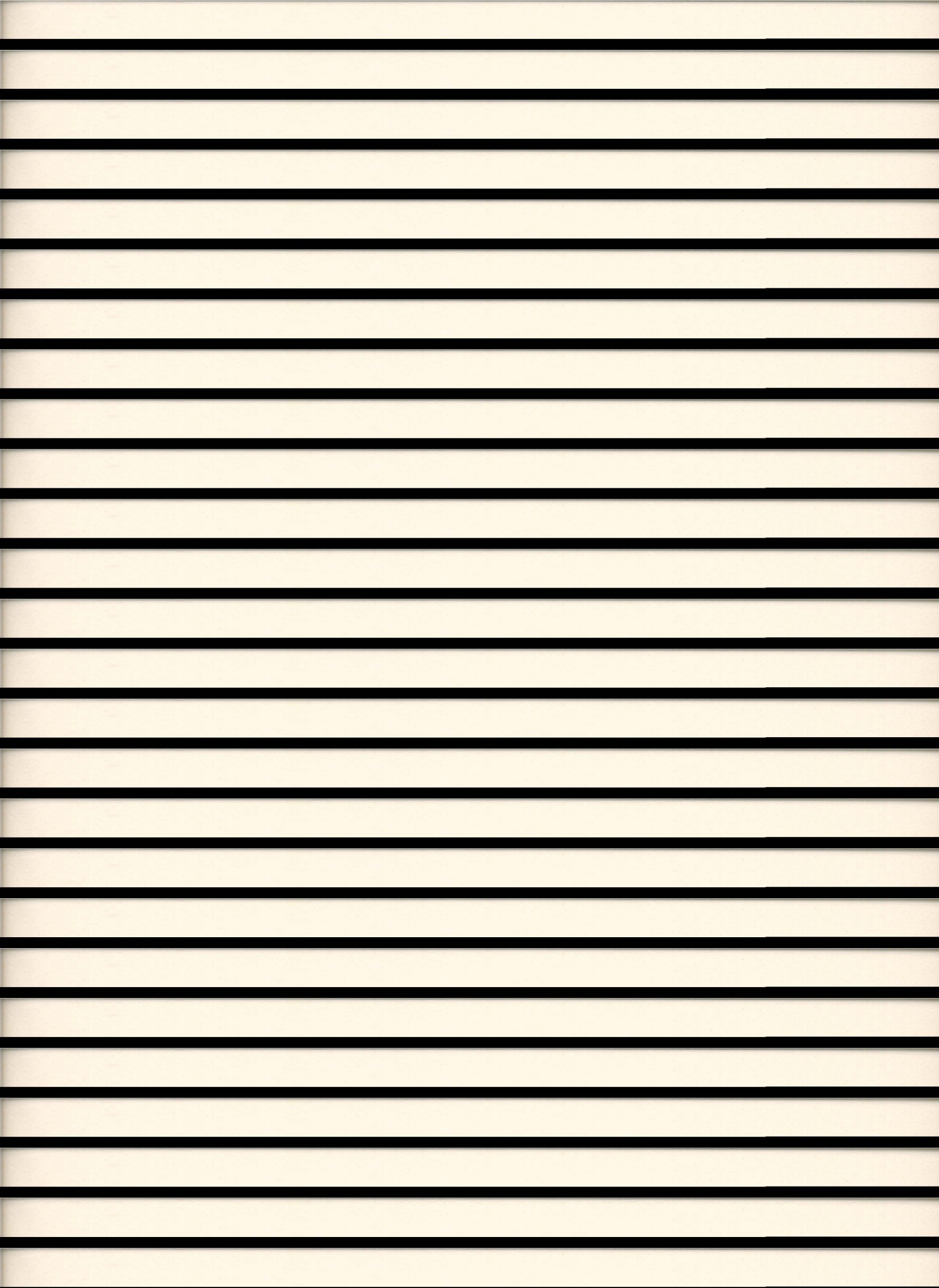


SAMPLE	DESCRIPTION	+ 10%	10% - 1%	1% - 0.1%	0.1% - .01%	0.1% - .001%	DATA, 001970
No. 1 (P10521)	Scheelite bearing Epidote-Quartz Tactite	Si	Al, Fe, Ca	Mg, Mn, W	Na, Pb, Ti, K, V, Sr	Ba, Cu, Cr, Mo, Ni	
No. 2 (P10164)	Diopside-Garnet Tactite	Si, Ca	Al, Fe, Mg	Ti, Na, K	Mn, Pb, Cr, V, Sr	Ba, Ce, W, Ni, B, W	
No. 3 (P10163)	Garnet-Wollastonite Tactite	Si, Ca	Al, Fe, Mg	Ti, Na, K	Mn, Pb	V, Sr, Ba, Cu, Cr, W, Ni, B	
No. 4 (P10159)	Quartz-Diorite Dike	Si	Al, Fe, Ca, Na	K	Mn, Pb, Ti, Cu, Ba, Sr	V, Cr, Ni, B, Mo	
No. 5 (P10165)	Epidote-Quartz-Tactite	Si, Ca	Al, Fe, Mg	Ti, Na, K	Mn, Pb, Cr, V, Sr	Ba, Cu, W, Ni, B	
No. 6 (P10158)	Peridotite Dike	Si	Al, Fe, Ca, Na, K		Mn, Pb, Cr, Cu, Ba, Sr	V, Ti, Mo, Ni, B	
(P-10167)	Garnet-Wollastonite Tactite FROM ZONE 700' EAST OF MAIN LENS	Si	Al, Fe, Ca	Ti, Na, K, Mg	Mn, Pb	V, Sr, Ba, Cu, Cr, W, Ni, B	
(P-10166)	Peridotite Dike ADJACENT TO EAST TACTITE ZONE (P10167)	Si	Al, Fe, Ca, Na, K		Mn, Pb, Ti, Cu, Ba, Mg, Sr	V, Cr, B, Mo, Ni	
(P10972)	Quartz-Diorite Country rock in mine area	Si, Ca	Al, Fe, Mg, Na, K, Ti		Na, Pb	K, Sr, Ba, Cu, Cr, Zr, Ni, B	
(P10973)	Granodiorite from Point 800' NE OF MAIN LENS	Si	Al, Fe, Ca, Na, K, Mg		Mn, Pb, Ti, Ba, Sr	V, Cu, Zr, B, Cr, Ni	



MAIN ORE MINERALS:
FREE GOLD

MINOR ORE MINERALS:
PYRITE

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV.

2
PROPERTY IS INACTIVE

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
VEIN

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

STRIKE OF OREBODY..... NORTH

DIP OF OREBODY..... 40E

COMMENTS(DESCRIPTION OF DEPOSIT):

BELIEVED TO BE THE NORTH EXTENSION OF THE ASHLAND VEIN.

DESCRIPTION OF WORKINGS

COMMENTS(DESCRIP. OF WORKINGS):
DEVELOPED BY A 325 DRIFT ADIT

PRODUCTION

NO PRODUCTION

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... LJUR-CRET
HOST ROCK TYPES..... DIORITE, QUARTZ DIORITE

AGE OF ASSOC. IGNEOUS ROCKS.. LJUR-CRET
IGNEOUS ROCK TYPES..... DIORITE, QUARTZ DIORITE

PERTINENT MINERALOGY..... QUARTZ, CALCITE

GEOLOGICAL DESCRIPTIVE NOTES. NORTH-TRENDING 40 DEG. E. -DIPPING, QUARTZ-CALCITE VEIN OCCURS IN SHEARED DIORITE,
THOUGHT TO BE NORTH EXTENSION OF THE ASHLAND VEIN.

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES
1) NAME: ASHLAND PLUTON
AGE: LJUR CRET

CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... D001345
 RECORD TYPE..... X1M
 COUNTRY/ORGANIZATION. USGS
 MAP CODE NO. OF REC..

REPORTER

NAME..... ELLIOTT, JAMES E.
 DATE..... 73 06
 UPDATED..... 80 12
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... MATTERN PROSPECT

MINING DISTRICT/AREA/SUBDIST. ASHLAND

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

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

COUNTY..... JACKSON

QUAD SCALE QUAD NO OR NAME
 1: 62500 ASHLAND

LATITUDE LONGITUDE
 42-13-10N 122-44-42W

UTM NORTHING UTM EASTING UTM ZONE NO
 4673950. 521050. +10

LOCATION COMMENTS: ON RAILROAD CUT ABOUT 300 FT NORTHWEST OF THE MATTERN ADIT

COMMODITY INFORMATION

COMMODITIES PRESENT..... W

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):
 POTENTIAL.....
 OCCURRENCE..... W

COMMODITY SPECIALIST INFORMATION:

W

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 1

PROPERTY IS INACTIVE

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:

TACTITE

FORM/SHAPE OF DEPOSIT: LENTICULAR

SIZE/DIRECTIONAL DATA

MAX WIDTH..... 12 FT

PRODUCTION

NO PRODUCTION

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PERM-TRI
HOST ROCK TYPES..... META-ANDESITE

AGE OF ASSOC. IGNEOUS ROCKS.. LJUR-CRET
IGNEOUS ROCK TYPES..... GRANODIORITE

PERTINENT MINERALOGY..... QUARTZ, EPIDOTE, CALCITE

IMPORTANT ORE CONTROL/LOCUS.. CONTACT ZONE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

- 1) NAME: APPLGATE GROUP
AGE: PERM TRI

NAMES/AGE OF IGNEOUS UNITS OR IGNEOUS ROCK TYPES

- 1) NAME: ASHLAND PLUTON
AGE: LJUR CRET

GENERAL REFERENCES

- 1) WOLFE, H.D., AND WHITE, D.J., 1951, OREGON DEPT. GEOL. AND MINERAL INDUSTRIES G.M.I. SHORT PAPER 22.
- 2) LEMMON, D.M., AND TWETO, D.L., 1962, TUNGSTEN IN THE U.S., USGS MAP, MR-25.

Topographer Wolfe
Rodman WhiteChecked by
Recorder

	From	To	Rod	H. C.	Corr. Dist.	Bea. Arc	Prod.	Rod Corr.	Elev. Diff.	H. I.	Elev.	Description of Station
1	ΔA									1804' ⁺⁴	1800'	N. of R.R. Track
2		A-1	2.9	—	290	—	—	-6.7	-6.7		1799'	NE of track
3		A-2	6.6	—	660'	—	—	-9.1	-9.1		1795'	NE of track
4		A-3	3.6	100	360'	51	+3.6	-5.9	-2.3		1802'	opposite adit
5		A-4	9.4	100	940	51	+9.4	-4.8	+4.6		1809'	
6		A-5	0.9	—	90'	—	—	-2.9	-2.9		1801'	At tungsten outcrop
7		A-6	9.8	100	980	55	+9.0	-8.5	+0.5		1844.5	above 2nd outcrop E of st. A
8			Couldn't get a shot in draw E. of ridge									where A-6 located; Draw flows ^{trends} S 40° W
9		A-7	5.1	99	505	60	+5.0	-9.0	+42.0		1846	on ridge above shear zone
10		A-8	2.3	99	228	58	+18.4	-3.7	+14.7		1819	in wide draw between Mother mine & Tactite zone
11		A-9	1.3	84	109	87	+48.1	-6.3	+41.8		1846	on ridge above Tactite zone
12		A-10	2.2	100	220	53	+6.6	-2.5	+4.1		1808	Draw W. of ridge w/ Tactite zone trend N 70°
13		A-11	4.5	100	450	50	—	-6.3	—		1797.7	
14		A-11	3.1	99	307	60	+31.0	-2.5	+28.5		1833	

Topographer White
Rodman Draw

Checked by
Recorder

	From	To	Rod	H. C.	Corr. Dist.	Bea. Arc	Prod.	Rod Corr.	Elev. Diff.	H. I.	Elev.	Description of Station
1	ΔA									1804'	1800'	RR
2		A-12	4.5	100	450	50	—	-6.3	-6.3		1798	on track above stream W. of 1st ridge W. of
3										tactite zone. B. is 40' lower than		altimeter stream track at 1758'
4	'	A-13	9.2	100	920	55	+46.0	-8.9	+37.1		1841	off of sheet
5		A-14	6.6	100	660	54	+26.4	-8.3	+18.1		1822	
6		A-15	.55	98	54	35	-8.3	-10.7	-19.0		1785	
7												
8	ΔB	ΔB	6.0	99	582	33	-102.0	-6.5	-108.5	1699.5	1695.5	
9	ΔB	B-1	5.7	99	564	60	+57.0	-5.7	+51.3		1751	on rd. betw old highway 99 & RR Track
10		B-2	4.0	100	400	51	+4.0	-6.5	-2.5		1697	at edge of bluffs
11		B-3	12.0	100	1200	51	+12.0	-7.5	+4.5		1704	at intersection of old & New Hiway 99
12												off of plane table sheet
13		ΔC	2.2	100	220	50	—	-4.1	-4.1		1695.4	on old Hiway 99, S. side N. of springs in a
14												concrete enclosure

Topographer White

Checked by

Rodman Drew

Recorder

	From	To	Rod	H. C.	Corr. Dist.	Bea. Arc	Prod.	Rod Corr.	Elev. Diff.	H. I.	Elev.	Description of Station
1	ΔC									1699.4	1695.4	
2		ΔD	7.6	100	760	52	+15.2	-7.9	+7.3		1706.7	on S. side old Highway 99 - off of sheet
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

Along RR

Draw #1 - S.E. - 540' W

Draw 2 Too wide for
definite trend

Draw 3 ~~to~~ - N 70° W

Draw 4 - N.W. - 560' W

Ck. is 40' lower than
shot on tracks acc. to
altimeter

50
53
168
180
296

~~Road goes N 10° E then shot B-1~~

New US 99 goes N 50° W past
this whole area

Old US 99 goes N 30° W thro D

270° SE from D to jct.

195° NW from D' to curve (N side rd.)

N 55° W, 530' to next curve (T past beyond jct)

N 25° W, 830' to jct. with new US 99

Note D at edge of Ck.



STATE DEPARTMENT OF GEOLOGY
AND MINERAL INDUSTRIES

702 WOODLARK BUILDING
PORTLAND 5, OREGON

November 23, 1949

Sample submitted by H. D. Wolfe

Analysis by:

Sample received on November 14, 1949

Oregon State Dept. of Geology
& Mineral Industries

Analysis requested As reported

L. H. + T. C. M.

Lab. No.	Sample Marked	Results of Analysis	Remarks
P-9427	JG-358	Gold (Au) Nil Tungsten (WO ₃) 0.60% Molybdenum (Mo) Trace	<i>Matter Tungsten Min</i> ----- <i>[Faint handwritten notes]</i>
***	****	*****	*****

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

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORY

56104

Spec + WO₃

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.

Your name in full H. D. Wolfe

Post office address Box 417 Grants Pass, Oregon

Are you a citizen of Oregon yes Date on which sample is sent May 12, 1950

Name (or names) of owners of the property Southern Pacific R. R.

Name of claim sample obtained from _____

Location of property or source of sample (describe as accurately as possible below):
(If legal description is not known, give location with reference to known geographical point.)

County Jackson Mining district Ashland

Township 38 S Range 1 E Section 31 Quarter section _____

How far from passable road and name of road 1/4 mile to Hwy. 99 South

	<u>Channel (length)</u>	<u>Grab</u>	<u>Assay for</u>	<u>Description</u>
Sample no. 1	<u>12'</u>		<u>Spec. and WO₃</u>	

Sample no. 2 _____

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

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) H. D. Wolfe

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

Description Dark brownish-green "tactite" containing scattered, fine to very coarse grains of scheelite.

Sample number	GOLD		SILVER		WO ₃	:	:	:
	oz./T.	Value	oz./T.	Value				
					<u>Ni</u>			

Report issued _____ Card filed _____ Report mailed _____ Called for _____

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORY

KG-104
Spec. & WO₃

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.

Your name in full H. D. Wolfe

Post office address Box 417, Grants Pass, Oregon

Are you a citizen of Oregon yes Date on which sample is sent May 12, 1950

Name (or names) of owners of the property Southern Pacific R.R.

Name of claim sample obtained from _____

Location of property or source of sample (describe as accurately as possible below):
(If legal description is not known, give location with reference to known geographical point)

County Jackson Mining district Ashland

Township 38s Range 1e Section 31 Quarter section _____

How far from passable road and name of road 1/2 mile to Hwy 99 South

Channel (length) Grab Assay for Description

Sample no. 1 12' Spec. and WO₃

Sample no. 2 _____
(Samples for assay should be at least 1 pound in weight; clay samples for ceramic testing, at least 5 pounds.)

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) H. D. Wolfe

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

Description Dark brownish-green "tactite" containing scattered, fine to very coarse grains of scheelite.

Sample number	GOLD		SILVER		TUNGSTEN			
	oz./T.	Value	oz./T.	Value	WO ₃			
P-9842	---	--	---	--	Nil	---	---	---
KG-104								

Report issued _____ Card filed _____ Report mailed 5-23-50 Called for _____



STATE DEPARTMENT OF GEOLOGY
AND MINERAL INDUSTRIES

July 25 1950

702 WOODLARK BUILDING
PORTLAND 5, OREGON

General Laboratory Number P-9842 (KG 104)

Date received _____

Spectrographic Laboratory Number _____

Sample received from G.P.office

Harold Wolfe

QUALITATIVE SPECTROGRAPHIC ANALYSIS
(Quantities estimated to nearest power of ten)

1. Elements present in concentrations over 10%.

Silicon, calcium

2. Elements present in concentrations 10% - 1%.

Aluminum, iron

3. Elements present in concentrations 1% - 0.1%.

Magnesium, sodium, manganese, titanium

4. Elements present in concentrations 0.1% - .01%.

Potassium, lead, tungsten, vanadium,
copper, strontium

5. Elements present in concentrations .01% - .001%.

Nickel, chromium, molybdenum, barium

6. Elements present in concentrations below .001%.

No precious metals
were found

Thomas C. Matthews, Spectroscopist

Thomas C. Matthews

LG-115-116

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORY

W₃

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.

Your name in full H. D. Wolfe

Post office address Box 417 Grants Pass, Oregon

Are you a citizen of Oregon yes Date on which sample is sent 3-31-51

Name (or names) of owners of the property S. Pacific R. R.

Name of claim sample obtained from -----

Location of property or source of sample (describe as accurately as possible below):
(If legal description is not known, give location with reference to known geographical point)

County Jackson Mining district Ashland

Township 38 S Range 1E Section 31 Quarter section ---

How far from passable road and name of road 1/2 mile to old Pacific Hwy.

	Channel (length)	Grab	Assay for	Description
Sample no. 1	<u>3'</u>		<u>WO₃</u>	<u>tactite</u>
Sample no. 2	<u>7'</u>		<u>WO₃</u>	<u>tactite</u>

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

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) H. D. Wolfe

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

Description #1 - 3' channel sample across narrow portion of wedge shaped tactite zone (quartz-epidote-scheelite) three-quarter way up face of cut.
#2 - 7' channel across tactite zone half way up face of cut.

Sample number	GOLD		SILVER		TUNGSTEN			
	oz./T.	Value	oz./T.	Value	WO ₃			
P-10974 LG-115	---	--	---	---	1.15%	---	---	---
P-10975 LG-116	---	--	---	---	2.43%	---	---	---

Report issued _____ Card filed _____ Report mailed 4-17-51 Called for _____

KG 168
W03 + Spec Analy

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.

Your name in full H. D. Wolfe

Post office address Box 417 Grants Pass, Oregon

Are you a citizen of Oregon yes Date on which sample is sent 7-27-50

Name (or names) of owners of the property S. Pacific R. R.

Name of claim sample obtained from _____

Location of property or source of sample (describe as accurately as possible below):
 (If legal description is not known, give location with reference to known geographical point)

County Jackson Mining district Ashland

Township 38 S Range 1 E Section 31 Quarter section _____

How far from passable road and name of road 1/4 mile to old Pacific Hwy.

	<u>Channel (length)</u>	<u>Grab</u>	<u>Assay for</u>	<u>Description</u>
Sample no. 1	<u>11'</u>		<u>W03 & Spec Analysis</u>	

Sample no. 2 _____

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

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) H. D. Wolfe

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

Description 11' channel sample of iron-stained tactite zone composed largely of quartz, epidote with small amount of scheelite.

Sample number	GOLD		SILVER				
	oz./T.	Value	oz./T.	Value			

Report issued _____ Card filed _____ Report mailed _____ Called for _____

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORY

KT 168
W034
Spec - Tc

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.

Your name in full H. D. Wolfe

Post office address Box 417 Grants Pass, Oregon

Are you a citizen of Oregon YES Date on which sample is sent 7/27/50

Name (or names) of owners of the property S. Pacific R.R.

Name of claim sample obtained from _____

Location of property or source of sample (describe as accurately as possible below):
(If legal description is not known, give location with reference to known geographical point)

County Jackson Mining district Ashland

Township S8S Range 1E Section 31 Quarter section _____

How far from passable road and name of road 1/4 mile to old Pacific Hwy

	Channel (length)	Grab	Assay for	Description
Sample no. 1	<u>11'</u>		<u>W034</u> <u>Spec Analysis</u>	

Sample no. 2 _____
(Samples for assay should be at least 1 pound in weight; clay samples for ceramic testing, at least 5 pounds.)

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) H. D. Wolfe

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

Description 11' channel sample of ironstone facies zone composed largely of quartz, epidote with small amount of schalite

Sample number	GOLD		SILVER				
	oz./T.	Value	oz./T.	Value			

Report issued _____ Card filed _____ Report mailed _____ Called for _____



STATE DEPARTMENT OF GEOLOGY
AND MINERAL INDUSTRIES

702 WOODLARK BUILDING
PORTLAND 5, OREGON

September 14 1950

General Laboratory Number P-10156 K.G. 168

Date received _____

Spectrographic Laboratory Number _____

Sample received from H.D.Wolfe

QUALITATIVE SPECTROGRAPHIC ANALYSIS
(Quantities estimated to nearest power of ten)

1. Elements present in concentrations over 10%.

Silicon, iron, calcium

2. Elements present in concentrations 10% - 1%.

Aluminum

3. Elements present in concentrations 1% - 0.1%.

Magnesium, sodium, manganese, tungsten

4. Elements present in concentrations 0.1% - .01%.

Potassium, titanium, lead, chromium, molybdenum,
vanadium, copper, strontium, nickel

5. Elements present in concentrations .01% - .001%.

Barium

6. Elements present in concentrations below .001%.

Boron

Thomas C. Matthews, Spectroscopist

Thomas C. Matthews

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORY

REQUEST FOR SAMPLE INFORMATION

The State Law governing free analysis of samples sent to State Assay Laboratories require 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.

Your name in full David J. White

Post office address Portland Office

Are you a citizen of Oregon yes Date on which sample is sent March

Name (or names) of owners of the property Concentrate from ore mined from Hot Spring tungsten outcrop

Name of claim sample obtained from S. P. Railroad

Location of property or source of sample (describe as accurately as possible below):
(If legal description is not known, give location with reference to known geographical points)

County Jackson Mining district Ashland

Township 38 S Range 1 E Section 31 Quarter section S 1/4

How far from passable road and name of road Less 1/4 mile from old Pacific Hwy.

	Channel (length)	Grab	Assay for	Description
Sample no. 1			x <u>WO₃, MoO₃, S, Cu, P, Au, Mn,</u>	

Sample no. 2 _____
(Samples for assay should be at least 1 pound in weight; clay samples for ceramic testing, at least 5 pounds.)

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) David J. White

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

Description Concentrate from ore milled at Van Curler's mill. Remarks:

Send copy of assay results to Dewey Van Curler, 835 N. Main St., Ashland,

Oregon

Manganese

Sample number	GOLD		SILVER		Tungsten	Molybdenum	Sulphur
	oz./T.	Value	oz./T.	Value	WO ₃	MoO ₃	S
<u>14</u>	<u>0.26</u>	<u>9.10</u>	<u>Trace</u>		<u>53.08%</u>	<u>0.05%</u>	<u>0.22%</u>
					<u>Phosphorus</u> <u>P₂O₅</u>		<u>Copper</u> <u>Cu</u>
					<u>0.11%</u>		<u>0.05%</u>

Report issued _____ Card filed _____ Report mailed _____ Called for _____

FWL

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
ASSAY LABORATORY

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.

Your name in full David J. White

Post office address Portland office

Are you a citizen of Oregon _____ Date on which sample is sent March 1951

Name (or names) of owners of the property Concentrate from ore mined from Hot Spring tungsten outcrop

Name of claim sample obtained from S.P. Railroad

Location of property or source of sample (describe as accurately as possible below):
(If legal description is not known, give location with reference to known geographical point)

County Jackson Mining district Ashland

Township 38 S. Range 1 E. Section 31 Quarter section 8 1/2

How far from passable road and name of road Less 1/4 mile from old Pacific Highway

Channel (length) Grab Assay for Description

Sample no. 1 _____ WO₃, MoO₃, S, Cu, P, Au, Mn

Sample no. 2 _____
(Samples for assay should be at least 1 pound in weight; clay samples for ceramic testing, at least 5 pounds.)

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) David J. White

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

Description Concentrate from ore milled at Van Curler's mill.

Remarks: Send copy of assay results to Dewey Van Curler, 835 N. Main St., Ashland, Oregon

MANGANESE

Sample number	GOLD		Mn STEEL		TUNGSTEN	MOLYBDENUM	SULPHUR	PHOSPHORUS	COPPER
	oz./T.	Value	oz./T.	Value	WO ₃	Mo	S	P ₂ O ₅	Cu
P-10940	0.26	\$9.10	Trace	- -	53.08%	0.05%	0.22%	0.11%	0.05

Report issued _____ Card filed _____ Report mailed 4-3-51 Called for _____

Mallory Tungsten Mine Ore

March 19, 1952

General Laboratory Number P-12495
MG-81

Sample received from Dewey Van Curler

QUALITATIVE SPECTROGRAPHIC ANALYSIS
(Quantities estimated to nearest power of ten)

1. Elements present in concentrations over 10%.
Silica
2. Elements present in concentrations 10% - 1%.
Aluminum, iron, magnesium, calcium
3. Elements present in concentrations 1% - 0.1%.
Manganese, titanium, tungsten, copper
4. Elements present in concentrations 0.1% - .01%.
Sodium, potassium, chromium, strontium, cobalt
5. Elements present in concentrations .01% - .001%.
Molybdenum, vanadium, nickel
6. Elements present in concentrations below .001%.
Barium, boron

Silver - trace
Gold - trace
Platinum - not found

March 19, 1952

General Laboratory Number P-12495
MG-81

Sample received from Dewey Van Curler

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(Quantities estimated to nearest power of ten)

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MATTERN TUNGSTEN DEPOSIT (2)

General

The Mattern tungsten deposit is located in sec. 31, T. 38 S., R. 1 E., on the Southern Pacific Railroad right-of-way one mile northwest of Ashland and approximately an eighth of a mile southwest of the Jackson Hot Springs resort. For reference in this report it has been termed the Mattern tungsten deposit because of its proximity to the Mattern mine - one of the early gold quartz mines of the area, inactive for many years.

Attention was first directed to the deposit late in 1949 when a sample from the deposit, submitted to the Department by Mr. G. I. Maxwell, disclosed a small tungsten content. A field inspection of the deposit was made by the Department shortly thereafter.

Geology

The deposit occurs in a narrow fringe of metavolcanic rocks of the Applegate group which are exposed along the northern margin of the Ashland stock northwest of Ashland. Scheelite, the only tungsten mineral noted, occurs in a tactite body which has been exposed by a railroad cut about 300 feet northwest of the portal of the Mattern mine. The tactite occurs in strongly metamorphosed volcanic rocks of the Applegate group in an apparent interfingering of the metavolcanics with the granitic rocks along the margin of the stock. A vertical cross section of the tactite zone and other rocks exposed in the railroad cut is shown in fig. 4.

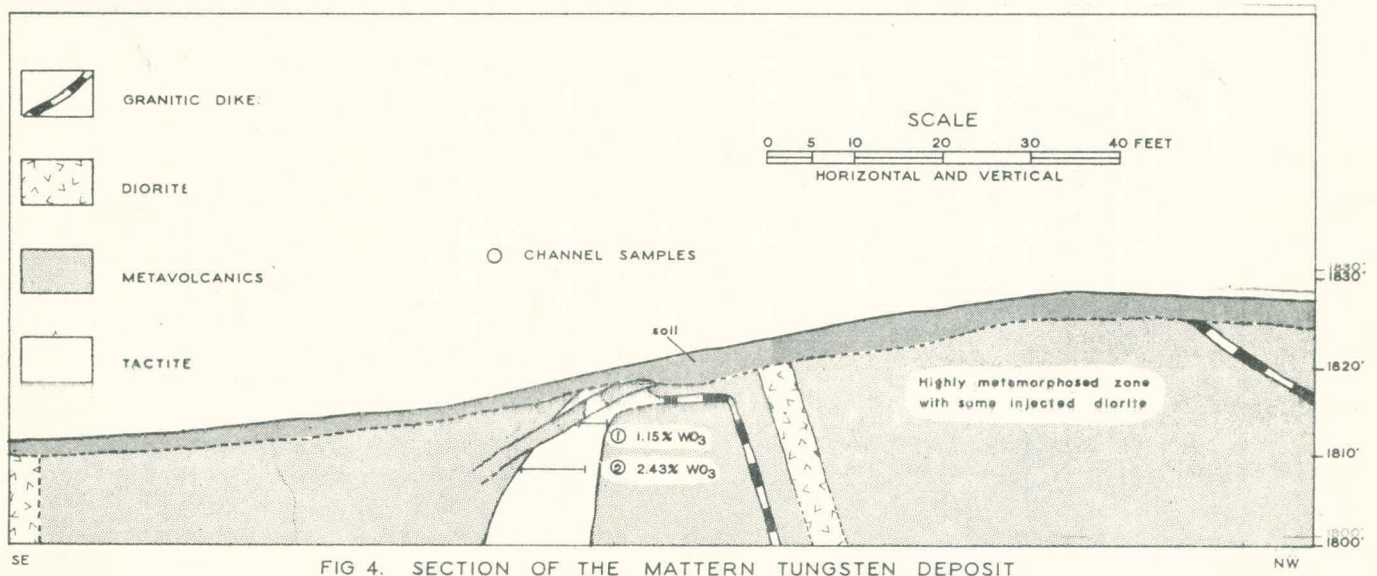


FIG. 4. SECTION OF THE MATTERN TUNGSTEN DEPOSIT

Metavolcanics comprise the bulk of the rocks exposed in the section. Principal metavolcanic rock is a dark gray, porphyritic meta-andesite which is exposed on both sides of the tactite zone. To the northwest it passes into a zone of mixed types of rather strongly metamorphosed volcanic rock with some injected diorite. The meta-andesite extends southeast from the tactite body about 50 feet to the contact with diorite. The tactite zone and the adjoining porphyritic meta-andesite to the southeast are cut by a narrow meta-andesite dike which forms the southeast wall of the tactite zone for several feet.

The principal exposure of diorite in the immediate area is southeast of the tactite zone, where it is exposed along the railroad cut for about 100 feet. It is a massive, medium-grained, dark gray rock composed of about equal amounts of dark and light minerals.

Two narrow light-colored siliceous granitic dikes cutting the metavolcanics are exposed in the cut northwest of the tactite body. One of these dikes cuts the metavolcanics about 20 feet northwest of the tactite zone and, a few feet below the top of the cut, turns sharply to the southeast merging into the apex of the tactite body.

The tactite, which is exposed only in the railroad cut, is 12 feet in width at the base of the cut narrowing to possibly 2 feet in width at the top. It cannot be traced at the surface along its strike either to the northeast or southwest. The tactite is composed essentially of quartz, epidote, and calcite. Scheelite occurs finely disseminated throughout the zone but in places there are concentrations of coarse grains. Individual pieces in these concentrations are as much as 2 inches in diameter. Many of the heaviest concentrations occur around the margins of small masses of calcite which are irregularly distributed throughout the tactite. Scheelite was noted in particular abundance immediately below the meta-andesite dike which cuts the tactite. A 3-foot channel sample taken near the top of the tactite exposure contained 1.15 percent tungsten trioxide (WO_3) and a 7-foot channel sample taken near the middle of the exposure contained 2.43 percent tungsten trioxide.

A spectrographic analysis was made of representative material from the tactite zone with results as follows:

Sample No.	<u>+ 10%</u>	<u>10% - 1%</u>	<u>1% - 0.1%</u>	<u>0.1% - .01%</u>	<u>.01% - .001%</u>	<u>Below .001%</u>
(P-10156)	Si, Ca, Fe	Al	Mg, Na, Mn, W	K, Ti, Pb Cr, Mo, V, Cu Sr, Ni	Ba	B

The tactite zone has not been exposed sufficiently to permit other than a few general observations concerning the origin and localization of the scheelite. A genetic relationship is suggested between the tactite and the small siliceous granitic dike which cuts the metavolcanics about 20 feet northwest of the tactite zone. The meta-andesite dike which cuts the tactite zone appears to have been at least partially responsible for the heaviest concentrations of scheelite.