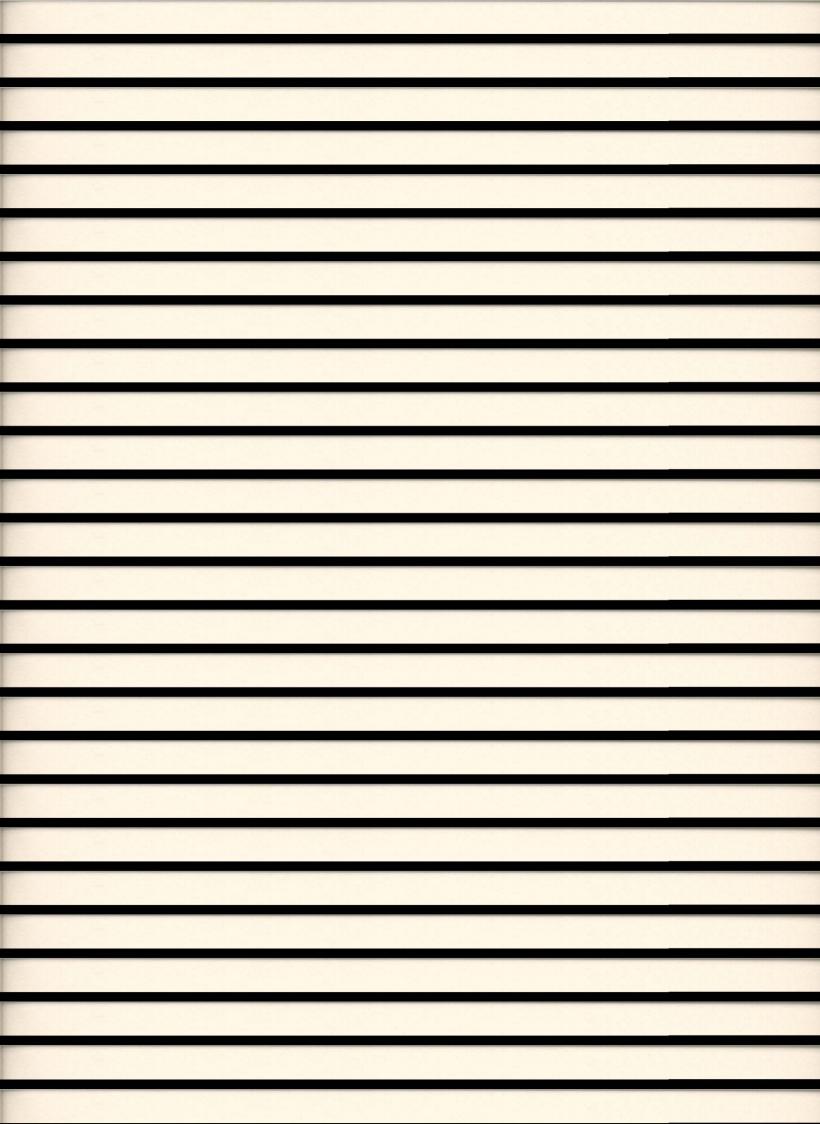
+ 3 nd was	DESCRIPTION.	· 1090 +	1090-190	193 - 0.190	10:-61:0	0190-,001% 50 to 100, -0910.	06100 may	
No. 1 (P85,21)	SCHEELITE BEARING-	ইন		MgMmyW	Ma, Pb T, K, U, Sr Ba Ca, Co Ma, Ni	Sa Cey, Con May N:		
Yo. 2 (P10:64)	DIOPSIDE-GARNET TACTITE	Sila	Al, Fe, Mg	Ti, Ma, K	Ma, Pb, Cr, V, Sr 180, Co.	Res Ca W M. B	M M	
No.3.	Vo. 3. GARNET-WOLLDSTONING TECTITE	र्थ ः	Al, Fe, Mg	TI, Na, K	Mm, Pb V, Sr	V, Sr Ba, Cu, Cr, W, N; B	M.	
No.4 (P10159)	Quarte-DIORITE DINE	.vs	Al Fe Ca, Na	×	Mm, Pb, Ti, Cu Ba, Sr V	W C	8 Mo	3
No.5.	Existone - Ought - Toctite	51,02	Al, Fe, Mg	Ti, Nay K	Mn, Pb, cr, V, Sr Ba, cu	Sa, Cu. W, N. 13		M3.
No.6	PESMATTE DIKE	võ	A) Fe, Ca, Ma, K		Mny Pb, Cr, Cu, Ba, Sr V, T.	V, T., Mo, N. 13		7
(P-10167)	GRANGT WOINGRANITE TRETTE FROM ZONE 700' ENST OF MANY LENS	\$;	91, Fe Ju	Tryla, K, Mg	Mn, Pb V sr	V Sr Bay Cu, Cr, W. N: B		N and a second
D-10166)	PESMATITE DIKE ADJACENT TO CAST	. 70	A), Fe, Ca, Na, K		Who P. B. T. G. Ba Ma Se V	3	B Mo, Ni	
P10972)	Quanta Diorite	51, Ca	AlfeMyna, K TI	TI .	Magb 11,500	V, Sr Ba, Ca, Ce, Zr, Ni B		
Ricard	Granodioryto From Pourt Boot NE	'n	Al, Fe, Ca, Na, K	K Mg	Mn, Pb, T, Ba Sr Van	ň	B, Cr, N;	2



MAIN DRE MINERALS: FREE GOLD

MINOR ORE MINERALS: PYRITE

STATUS OF EXPLOR. OR DEV. 2

PROPERTY IS INACTIVE

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES: VEIN FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

STRIKE OF DREBODY.... NORTH

DIP OF DREBODY..... 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

GEDLOGY AND MINERALOGY

AGE OF HOST ROCKS..... LJUR-CRET

HOST ROCK TYPES DIORITE, QUARTZ DIORITE

AGE OF ASSOC. IGNEOUS ROCKS.. LJUR-CRET

IGNEOUS ROCK TYPES..... DIDRITE, QUARTZ DIDRITE

PERTINENT MINERALOGY QUARTZ, CALCITE

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

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, DR 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 JAMES E.

DATE..... 73 06 UPDATED..... 80 12

BY (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: DREGON

COUNTY JACKSON

QUAD SCALE QUAD NO DR NAME

1: 62500 ASHLAND

LATITUDE LONG ITUDE

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......

DCCURRENCE(S) DR POTENTIAL PRODUCT(S):

DCCURRENCE

COMMODITY SPECIALIST INFORMATION:

L

STATUS OF EXPLOR. OR DEV.

PROPERTY IS INACTIVE

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES: TACTITE

FORM/SHAPE OF DEPOSIT: LENTICULAR

SIZE/DIRECTIONAL DATA

MAX NIDTH 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..... GRANDDIDRITE

PERTINENT MINERALOGY QUARTZ, EPIDDTE, CALCITE

IMPORTANT DRE CONTROL/LOCUS.. CONTACT ZONE

LOCAL GEOLOGY

NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES

1) NAME: APPLEGATE 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, DREGON DEPT. GEOL. AND MINERAL INDUSTRIES G.M.I. SHORT PAPER 22.
2) LEMMON, D.M., AND TWETO, O.L., 1962, TUNGSTEN IN THE U.S., USGS MAP, MR-25.



702 Woodlark Building PORTLAND 5. OREGON October 8, 1949

Sample submitted by George I. Maxwell

				Analysis by:	
Sample recei	ved on Septe	ember 29, 1949	order-unfatority.compatible		
Analysis req	quested As re	eported		Assayer	
	Neural continue and transport of the second state of the second state of the second state of the second state of the second seco				-
Lab. No.	Sample Marked	Results of Anal	lysis	Remarks	
		·			proposition (
P-9251		Gold (Au)	0.04 oz./ton		_
		Silver (Ag)	Nil		
		Tungsten (WO3)	0.10%		
		Phosphorus (P205)	0.24%		
* * * *	* * * *	* * * * * * * *	* * * * *	* * * * * * * * * * * *	*
					-
		tment did not partici sumes responsibility of			

	S	RVEY	JACKSO	N Ho	7 3	PR.		**************************************		Date	7/3/3	0	Page No. /
43		pograp	her whit			470			Checke Record	d by			
		From	То	Rod		Corr. Dist.	Bea.	Prod.	Rod Corr.	Elev. Diff.	н. І.	Elev.	Description of Station
	1	AA									1804'	1800'	N. of R.R. Track
	2		A-1	2.9		290		-	-6.7	-6-7		1797	Në of track
	3		A-2	6.6		660'	_	_	-9.1	- 9.1		1795'	NEOFTrack
	4		A-3	3.6	100	360	51	+ 3.6	-5.9	-2.3		1802'	opposite adit
,	5		4-4	9.4	100	940	51	+ 9.4	- 4.8	+ 4.6		1809'	
	6		A-5	0.9	_	90'	_	-	-2.9	-2.9		1801'	St tungston outers
	7	7	A-6	9.8	100	980	55	+49.0	-8.5	40.5		1844.5	Coore and out crop
	8			Couldn't	aj e	t a	shot	in dr	2 W E. a	fridge	where A	-6 locate	d : Draw flows SS 40° W
	9		A-7	5.1	99	505	60	151.0	-9.0	+42.0		1846	on ridge above shear
,	10		A-8	2.3	99	228	58	1/8.4	-3.7	+/4.7		1819	in wide draw between Mottern mme & Toeticez
	11		A-9	1.3	84	109	87	+48.1	-6.3	+ 41.8		1846	on ridge above Tactite zone
	12		H-10.	2.2	100	220	53 .	+6.6	-2,5	+ 4.1		1808	Draw W. of ridge w/ Todite zone trend No 70
	13		77-11	4.5	100	450	500		-6.3			1797.7	
	14		A-11	3,/	99	307	60	+31,0	-2.5	+28,5		1833	
	-				-		-	-	The same of the same of				The state of the s

***	ST	JRVEY	Jack	Hot	5%	rings	Tung	isten an	ica	Date	7/13/	50	Page No. 2
è		pograj dman	pher 4						Checke Record	-			
		From	То	Rod	н.	Corr. Dist.	1	Prod.	Rod Corr.	Elev. Diff.	н. І.	Elev.	Description of Station
	1	AA				1					1804'	1800'	RT
	2		A-12	4.5	100	450	50	_	-6.3	-6.3		1798	on track above stream
	3		7-13								tactite is 40 low		track or 1758
	4	1	A-13	9.2	100	920	55	146.0	-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	4.6	AB	6,0	97	582	33	-102.0	- 6.5	-108.5	1699.5	1695.5	
	9	AB	B-1	5.7	99	564	60	457.0	-5.7	+51.3		1751	on reliberation old highway
	10		3-2	4.0	100	400	51	14.0	-6.5	-2.5		1697	at edge of blusts
*	11		8-3	12,0	100	1200	51	+12,0	-7.5	+4.5		1704	According to the contract of t
	12												oft of plane table sheet
77	13		DC	2,2	100	220	50	_	-4,1	-4.1		16954	on old Hiway 99, S. sid. N. of springs in a
	14												concrete enclosure
	AF	D -36			T	ē							

A	SU	RVEY	Jacks	on He	7	Shim	95			Date			Page No. 3
	To	pograp	Drew	Uhite					Checke Record				
		From	То	Rod	н.	Corr. Dist.		Prod.	Rod Corr.	Elev. Diff.	н. І.	Elev.	Description of Station
	1	DC	V								1699.4	1695,4	
	2		AD	7,6	200	760	52	+15,2	-7.9	+7.3		1706,7	on s. side old Himay
	3												
	4												
	5												
	6											18.	
	7												
	8												
	9												
	10												
	11												
	12												
	13	-											
	14												711
	ΔŦ	D = 36			2								

dlong KR #1 - S.E. Draw 540°W Too wite to 2 Draw - N70°W 3 Draw - N.W. - 560° W Dran Ch. is 40' lowa than shot on tracks acc. to allimeter Hood got MINOE Threw shop B-1 Mew U999 goes N50 W past This whole area 120 po Mis D 270° SEH for D'A S. 195° NON from D' to carre Made vel. N350 M530 to ment clave beyond it N230 N 830 to jet with new 0599 Mates Dat styr of ad.



702 WOODLARK BUILDING PORTLAND 5. OREGON November 23, 1949

Sample submi Sample recei Analysis req		ember 14, 1949 reported	Analysis by: Oregon State Dept. of Geolog & Mineral Industries All Hydroller
Lab. No.	Sample Marked	Results of Analysis	Remarks
P-9427	JG=358 * * * *	Gold (Au) Tungsten (WO3) Molybdenum (Mo) Trace ***********************************	Mattere Trungsten Men

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 5 4

Spect WO3

REQUEST FOR SAMPLE INFORMATION

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 L E Section 31 Quarter section
How far from passable road and name of road 1 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 record
(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 GOLD SILVER
Sample GOLD SILVER W O : 1
N/L
Report issued Card filed Report mailed Called for

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES ASSAY LABORATORY

K6-104 Spec + WO

REQUEST FOR SAMPLE INFORMATION

Your name in full H. D. Wolfe
Post office address Box 417, Grants Pass, Oregon Leds spendingen ed
Are you a citizen of Oregon yes Date on which sample is sent May 12, 1950
Name (or names) of owners of the property blosouthern 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
Township 385 Range Le Section 31 Quarter section Senting to accompany and appearance of partial section (a)
How far from passable road and name of road
Channel (length) Grab Assay for Description
Sample no. 1 12' Spec. and WO3 alas to agosa add at
(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)
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 course grains of scheelite.
Sample GOLD SILVER TUNGSTEN
number oz./T. Value oz./T. Value WO3 P-9842
KG-104
Report issued Card filed Report mailed 5-23-50 Called for



July 25 1950

702 WOODLARK BUILDING PORTLAND 5, OREGON

General Laboratory No	umber P-9842 (KG 104)	Date received	
Spectrographic Labora	atory Number	Sample received from_	G.P.office
	QUALITATIVE SPECTRO	The state of the control of the state of the	Harold Wolfe
	1. Elements present in co	ncentrations over 10%.	
	Silicon, calciu	m	
	2. Elements present in co	ncentrations 10% - 1%.	
	Aluminum, iron		
	3. Elements present in co	ncentrations 1% - 0.1%.	
	Magnesium, sodi	um, manganese, titanium	
	4. Elements present in co	ncentrations 0.1%01%.	
*	Potassium, lead copper, stronting	, tungsten, vanadium,	-
	5. Elements present in co	ncentrations .01%001%	
	Nickel, chromiu	m, molybdenum, barium	

6. Elements present in concentrations below .001%.

No precious metals were found

Thomas C. Matthews, Spectroscopist

7 Chathaus

LG-115-116

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES ASSAY LABORATORY



REQUEST FOR SAMPLE INFORMATION

Your name in full H. D. Wolfe
Post office address Box 417 Crants 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 points)
County Mining district
County Jackson Mining district Ashland Township 38 8 Range 1E Section 31 Quarter section
How far from passable road and name of road mile to old Pacific Hwy.
Channel (length) Grab Assay for Description
Sample no 1 3* W03 tactite
Sample no. 1
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 reco
(Signed) M/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 GOLD SILVER TUNGSTEN
number oz./T. Value oz./T. Value WO
P-10974 LG-115
P-10975 LG-116
Report issued Card filed Report mailed 4-17-51 Called for

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1/6 / 6 8 ASSAY LABORATORY WO34 Spec analy

REQUEST FOR SAMPLE INFORMATION

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 points)
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.
Channel (length) Grab Assay for Description
Sample no. 1 11' Spec Analysis
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 reconstituted. (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 GOLD SILVER
number oz./T. Value oz./T. Value
Report issued Card filed Report mailed Called for

KE 168

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 60 3

REQUEST FOR SAMPLE INFORMATION

Your name in full #. D. Wecre
Post office address Boy 417 36 front - Pagg, Oragon
Are you a citizen of Oregon 1/2 5 Date on which sample is sent 7/27/50
Name (or names) of owners of the property 5. Pacific R-R.
Name of claim sample obtained from 10 shroot eds 10 annotation and of ognero
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 Access
Township 383 Range 16 Section 3/ Quarter section
How far from passable road and name of road /4 wile to ald Parific Hwy
Sample no. 1 // Stee Analysis to each at
(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.
. Inemired ed to bedsilded ed tem bisigned) ed the A willed
DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED
Description 11 channel sample of innstained factor zone composed
langely of queste, opidata with small amount of schoolite
Sample GOLD SILVER number oz./T. Value oz./T. Value :
Report issued Card filed Report mailed Called for



702 WOODLARK BUILDING PORTLAND 5, OREGON

Date received

September 14 1950

Spectrographic	Laboratory	Number	Sample	received	from_	H.D.Wolfe
	(Que	QUALITATIVE SPECTROGRA			en)	

1. Elements present in concentrations over 10%.

Silicon, iron, calcium

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

General Laboratory Number P-10156 K.G. 168

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

1 Chatther

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES ASSAY LABORATORY

REQUEST FOR SAMPLE INFORMATION LAWA SEES OF CHITALES WALL

POST OTT	ice addre	99	Portland	022400		nes edf of li nes to frie neds twodik			
			of the dep			of informatile			
Are you	a citizen	of Orego	na natav za	Date on	which samp	le is sent	March		
Name (or	names) o	f owners	of the pro	perty	Hot Spring	e from ore m	ined from terop		
Name of	claim sam	ple obtai	ned from	bas S.1	P. Railroad	edf mehmu 1	bear of nea	estado no sucessión de la lacidade de lacidade de lacidade de la lacidade de lacidade delacidade de lacidade de lacid	-
(If lega	l descrip	tion is n	ot known,	give loc	ation with	accurately a reference to	o known ged		oint)
Coun	tyttageb	Jackson			Mining di	strict A	shland		
					on 31	Quarter se	ction S	1	
How far	from pass	able road	and name	of road_		ile from old		ighway	
						Des	cription		
	-	(0.11	11000	9 101	artist Artist Contract			
Sample no	0.1	nt them?	to adjust	W03, 1	1003, S. Cu	, P, Au, Ma	aciques baytes (o)	ramic testin	g,
Sample no (Sample no (Samples at least IMPORTAN) wall. Lo	o. 1 for assa; 5 pounds T: A vein ocation of	y s hould .) sample s	be at leas hould be t	t 1 poun	d in weigh	t; clay samp	the vein measured,	from wall to	
Sample no (Sample no (Samples at least IMPORTAN) wall. Lo	o. 1 o. 2 for assa; 5 pounds T: A vein ocation o:	y s hould .) sample s f sample	be at leas hould be t	t 1 poun aken in kings, t	d in weigh an even ch ogether wi	t; clay samplannel across the the width	the vein measured,	from wall to should be r	
Sample no (Sample no (Samples at least IMPORTAN) wall.	o. 1 o. 2 for assa; 5 pounds T: A vein ocation or	y should .) sample s f sample	be at leas hould be t in the wor	t l poun aken in kings, t (Sign - FOR OF	d in weigh an even ch ogether wi ed) TICE USE 0	t; clay samplannel across the the width	the vein measured,	from wall to should be r	
Sample no (Samples at least IMPORTAN) wall. Lo	o. 1 o. 2 for assa; 5 pounds T: A vein ocation or	y should .) sample s f sample	be at leas hould be t in the wor	t l poun aken in kings, t (Sign - FOR OF	d in weigh an even ch ogether wi	t; clay samplannel across the the width	the vein measured,	from wall to should be r	
Sample no (Samples at least IMPORTANY wall. Lo	o. 1 o. 2 for assa; 5 pounds T: A vein ocation ocation ocation	y should) sample s f sample	be at leas hould be t in the wor	t 1 poundaken in kings, to (Sign - FOR OF milled a	d in weight an even chogether wied)	t; clay samplannel across the the width	the vein to measured,	from wall to should be r	ecord
Sample no (Samples at least IMPORTANY wall. Lo	o. 1 o. 2 for assa; 5 pounds T: A vein ocation ocation ocation	y should) sample s f sample TE BELOW meentrate y of assa	be at leas hould be t in the wor THIS LINE from ore y results	t 1 poundaken in kings, to (Sign - FOR OF milled sto Dewey	d in weight an even chogether wited) FICE USE O	t; clay samplannel across the the width NLY - USE OTHERS MILL. 1. 835 N. Mai	the vein in measured,	from wall to should be r	ecord
Sample no (Samples no (Sample no (Samp	o. 1 o. 2 for assa; 5 pounds T: A vein ocation o: O NOT WRIT	y should) sample s f sample TE BELOW mcentrate y of assa	be at leas hould be t in the wor THIS LINE from ore y results MANGANESE Mn 330	t l poun aken in kings, t (Sign - FOR OF milled a	d in weigh an even ch ogether wi ed) FICE USE O	t; clay sample annel across the the width NLY - USE OTHER STATES AND MALE AND	the vein in measured, te HER SIDE IN	from wall to should be r F DESIRED PHOSPHORUS	ecord
Sample no (Samples at least IMPORTANY wall. Lo	o. 1 o. 2 for assa; 5 pounds T: A vein ocation or	y should) sample s f sample TE BELOW ncentrate	be at leas hould be t in the wor THIS LINE from ore y results	t 1 poundaken in kings, to (Sign - FOR OF milled sto Dewey	d in weight an even chogether wited) FICE USE O	t; clay samplannel across the the width NLY - USE OTHERS MILL. 1. 835 N. Mai	the vein in measured,	from wall to should be r	ecord

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES ASSAY LABORATORY

REQUEST FOR SAMPLE INFORMATION

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 Concentrate from ore mined from Name (or names) of owners of the property 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
County Jackson Mining district Ashland
Township 38 8 Range 1 E Section 31 Quarter section S
How far from passable road and name of road Less & mile from old Pacific Hwy.
Channel (length) Grab Assay for Description
Sample no. 1 x 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 testi at least 5 pounds.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall twall. Location of sample in the workings, together with the width measured, should be (Signed)
(525104)
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., Ashlend,
Oregon Manganese
Sample GOLD STEVER Tungsten Olysdenum Sulphur
mumber : oz./T. Value oz./T. Value
14 0.26 \$9.10 Trace 53.08% 0.05% 0.22%
Phosphorus Copper P205 Cu
0.11% 0.05%
Report issued Card filed Report mailed Called for

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.

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			MANGANESE	777	TUNGSTEN	MOLAY ASIDERNUM	SIM DEITE	PHOSPHORUS	CORR
Sample number	GC oz./T.	Value	MA STEV	Value	WO3	: Mo	S	P20s	Cu
P-10940	0.26	\$9.10	Trace		53.08%	0.05%	0.22%	0.11%	0.0
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Report is	sued	(Card filed		Report	mailed 4-3-	51 Cali	led for	
						***************************************		ADMINISTRAÇÃO DE PROPRIATA DE P	

Wattern Trungster 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 General Laboratory Number P-12495
MG-81

Sample received from Dewey Van Curler

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MATTERN TUNGSTEN DEPOSIT (2)

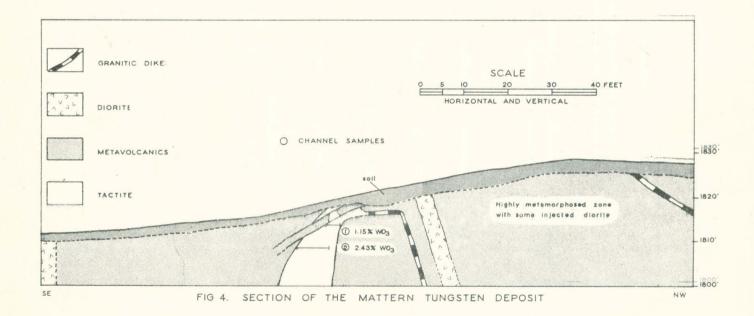
General

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.



Metavolcanics comprise the bulk of the rocks exposed in the section. Principal meta-volcanic 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 meta-volcanics 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 (WO₃) 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.	+ 10%	10% - 1%	1% - 0.1%	0.1%01%	.01%001%	.001%
(P-10156)	Si,Ca,Fe	Al	Mg, Na, Mn, W	K,Ti,Pb Cr,Mo,V,Cu	Ba	В
				Sr, Ni		

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.