

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland, Oregon

## ESTERLY CHROMITE MINE

Walde area

"Located near the center of the  $N\frac{1}{2}$  of sec. 22, T. 40 S., R. 8 W., Josephine County. Elevation 1600 feet.

"The main workings lie on a gentle south slope at the north edge of the Esterly swamp. (French Flat).

"The country rock is composed of irregularly north-south trending ledges of more massive and resistant peridotite porphyry alternating near the deposit with at least two zones of more highly serpentinized and sheared rock. This terrane slopes gently southward under the overlapping gravels of the Esterly placer mine. The workings lie in a serpentine-talc-magnesite zone from 6 to 10 feet wide within one of these serpentinized areas. Numerous kidney shaped bodies of white magnesite averaging perhaps 2 feet in diameter are exposed in both walls of the main cut.

"The ore-bearing zone may be traced N. 20° E. up the hill for 1000 feet by means of these lenses of magnesite and the higher degree of serpentinization of the country rock.

"The main workings are 100 feet long, striking N. 20° to 30° E. Two ore bodies appear to have been mined, the southern (smaller) having been bounded on the east by a well defined vertical fault trending N. 30° E. At the present time the pits are filled with water, but they appear to be of considerable depth. It is said that the ore was mined down to 40 feet in depth and not bottomed. Very little ore can be seen in place.

"A shallow cut in green sheared serpentine 100 feet north up the hill shows no ore.

"Three hundred and fifty feet north of the main workings a 30-foot north-south cut shows some magnesite lenses but no ore in place. Several shallow prospecting ditches apparently failed to pick up any ore here.

"Eight hundred and twenty-five feet north of the main workings (175 feet from the top of the ridge) about half a ton of ore has been mined from narrow lenses, only a small one-inch stringer now appearing in place.

"If the ore-bearing zone has an eastward dip, all these workings would lie accurately upon a N. 20° E. strike.

"The ore varies from the predominantly spotted and nodular medium grade variety to a small amount of dense massive high grade with a metallic lustre on fresh surfaces.

"The property is  $\frac{1}{2}$  mile west of the market road (old highway) at a point 6 miles south of Cave Junction, which is 33 miles from Grants Pass, south on the Redwood Highway."

Reference: John E. Allen, 38:47 (quoted)

From - Oregon Metal Mines Handbook: Oregon State Dept. of Geol. and Min. Ind., Bull. No. 14-C, Vol. II, Section 1--Josephine County, pp. 196-97, 1942.

ESTERLY MINE

WALDO DIST.

JOSEPHINE

Property purchased by R. F. Oliphant - November 1944.  
Cave Junction, Oregon

N $\frac{1}{2}$  Sec. 27, T40S., R8W

Status of Placer Operations for 1947-1948 Season

Hydraulic-operating one giant.

Reported by Harold D. Wolfe  
December 1, 1947

Noted En of Mine

Property purchased by R.F. Oliphant

ESTERLY MINE (placer)

Waldo area

also known as Llano de Oro  
Cameron Placer  
Logan Placer  
Simmons Placer  
Logan, Simmons & Cameron

"A crew of 10 men is employed at the Esterly mines at O'Brien, Oregon, which are being operated under lease from G. W. Hales. Production was made from November to July and preparations are now being made for operations during the winter season. Ditches and flumes have been prepared and the pipe line laid. Open pit methods of mining are employed and the gold, platinum, and silver values are recovered by riffles and jigs. About 250 yards of material are handled daily. C. R. Stout of O'Brien is general manager." (The Mining Journal, October 15, 1938.)

Shenon (33b) reports:

"The Llano de Oro mine, formerly the Logan, Simmons & Cameron mine, has for many years been the most productive gold-platinum placer in Oregon. The property includes over 3,000 acres of land in secs. 8, 9, 10, 15, 16, 21, 22, and 27, T. 40 S., R. 8 W., although practically all of the mining has been confined to the S $\frac{1}{2}$  sec. 15, the S $\frac{1}{2}$  sec. 22, and the N $\frac{1}{2}$  sec. 27. The property is operated by George M. Esterly, of Waldo.

"The first important work on the Llano de Oro property was done south of the highway near the center of sec. 27 by early-day miners. C. H. White, who was acquainted with one of the miners, states that they mined gold worth \$80,000 from this place. Later George Simmons, Frank Ennis, and Theodric Cameron took \$110,000 out of Carroll Slough. J. T. Logan mined the gravel on French Flat from 1907 to 1917, when the property was sold to G. M. Esterly. Mr. Esterly has worked the property almost continuously, during the mining seasons, up to the present time. He estimates the production in gold and platinum since 1917 at about \$225,000 and the total production of the entire property at about \$500,000.

"Since 1907 most of the work at the Llano de Oro mine has been confined to the vicinity of French Flat. Four pits have been excavated, covering in all an area of over 30 acres. The depths of the pits vary considerably from place to place. For example, the depth to bedrock in pit 3 is about 8 feet on the west side and about 18 feet on the east side, whereas the average depth of the Logan or no. 1 pit is more than 30 feet, and at one place in it the tailings were elevated 50 feet. The company owns three ditches known as the upper, middle, and lower, together with three water rights to 500, 518, and 1,100 miner's inches from the East Fork of the Illinois River. The total length of the ditches is over 15 miles. During the mining season, which

averages about 7 months yearly, sufficient water is available to operate 2 giants in the pits, 2 hydraulic elevators, and 1 giant for stacking tailings. When the plant is operating steadily, from 15,000 to 30,000 cubic yards of gravel, depending largely upon the seasonal water supply, is washed each month.

"Both the Tertiary conglomerate and the Quaternary Llano de Oro formation have been worked at the Llano de Oro mine, but the latter has been by far the most productive. In only one place on Llano de Oro ground, in the SW $\frac{1}{4}$  sec. 15, has the Tertiary formation been washed for its gold content. At this place the formation is well exposed in several cuts, where it can be seen resting upon serpentine in fault contact. The fault, which in part defines the eastern boundary of the Tertiary formation, strikes north and dips 65° W., whereas the normal contact dips 20° W.

"The Llano de Oro formation consists of gravel, sand, and clay, is in general poorly sorted, and ranges in thickness from less than 1 foot near the edges to nearly 50 feet, but within the prospected areas on French Flat averages about 18 feet. Few boulders with diameters exceeding 6 inches are present. The bedrock varies at different localities. At several places it is Tertiary conglomerate; at other places serpentine or Horsetown (?) sandstone. The gold and platinum are concentrated near bedrock, although prospect holes show that some gold is distributed throughout most of the formation.

"Most of the gold is angular and is associated with platinum chromite, magnetite, ilmenite, hematite, limonite, epidote, zircon, and other heavy minerals. Chromite was abundant enough in some of the areas of serpentine bedrock to be troublesome in the sluice boxes. The platinum occurs as flattened scales with rounded corners, which range in size from tiny grains to pieces over 2 millimeters in cross-section. Picked grains of platinum from the concentrate were analyzed by E. T. Erickson of the chemical laboratory of the United States Geological Survey, who reports that 'the sample consists largely of platinum and ruthenium with smaller proportions of iridium and osmium. A small quantity of gold and slight quantities of palladium and rhodium were also detected'. According to Mr. Esterly, platinum accounted for one-tenth of the value of the clean-ups when it was worth \$110 an ounce. In other words, the ratio of platinum to gold in the mined areas on French Flat is about 1 to 50.

"In 1921 L. A. Levensaler, mining engineer in charge of prospecting for Mr. Esterly, estimated that the unmined gravel on French Flat within the prospected areas would average about 18 cents to the cubic yard. According to Mr. Levensaler, the value of the ground worked by J. T. Logan in the upper (No. 1) pit averaged 22 $\frac{1}{2}$  cents a cubic yard, and that worked by Mr. Esterly at the other places in the same pit averaged 33 $\frac{1}{2}$  cents a cubic yard. Kay states that the gold content of the gravel mined in Carroll Slough was about 12 $\frac{1}{2}$  cents a cubic yard."

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"The pit here called the Cameron Mine is near the head of Scotch Gulch, in the SW $\frac{1}{4}$  sec. 34, T. 40 S., R. 8 W. It is owned by F. H. Osgood of Seattle, Washington, but has been worked principally by lessees, chiefly J. T. Logan, C. D. Cameron, C. H. White, E. N. Bayse, and C. P. Johnson. A pit roughly 400 by 500 feet has been excavated by hydraulic giants. Water for the

operation of the giants is supplied by the Osgood Ditch, which takes water from the East Fork of the Illinois River south of the Oregon-California boundary. The tailings are removed by natural run-off. Most of the mining was done during the period 1924-27 although some gold was produced prior to 1909. The total production is estimated at about \$9,000-\$10,000 before 1909 and \$7,500 during the period 1924-1927.

"The gold occurs in Tertiary conglomerate. As elsewhere, the lower beds are sandy and dark purple, and the upper exposed beds are light tan and consist principally of large, well-indurated boulders. Bedrock is not exposed beneath the conglomerate at the Cameron Mine, but at the south side of the pit greenstones of the bedrock series are in fault contact with it. The fault that has dropped the conglomerate into contact with the greenstone strikes east and dips about 65° N., whereas the bedding in the conglomerate strikes N. 10° E. and dips 14° W. Boulders of greenstone, argillite, a talcy-appearing rock that is probably decomposed serpentine, and granitic rocks are most abundant in the conglomerate. The boulders are all well rounded and, for the most part, are highly decomposed. Even the granitic rocks readily fall to pieces when broken from their matrix. The matrix is principally sandstone, but the deposit is sufficiently indurated to make hydraulic mining difficult.

"The gold is flat and flaky, and because much of it is covered with a black coating, amalgamation is difficult. According to C. H. White, the gold is distributed throughout the Tertiary beds but appears to be more abundant in areas of intense alteration. Mr. White estimates that the Tertiary formation in the Cameron Mine contains on an average from  $2\frac{1}{2}$  to 3 cents in gold to the cubic yard."

Reference: Shenon, 33b:pp. 186-188, pp. 184-5 (quoted).

Work is being continued at the Esterly mines with C. R. Stout, O'Brien, Oregon, as general manager, employing 12 men. Daily production amounts to 1,000 yards of gold-platinum gravel. Hydraulic mining methods are used and recovery is by riffles. The ground is leased from G. W. Hales.

Sept. 26, 1944

Informant: F. G. Wells - U.S.G.S.

The Esterly mine is believed to have been sold recently to an unknown party. The mine however is being leased by a Mr Oliphant of Cave Junction Oregon who is doing some preliminary development work and testing.

E.A.Y.

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

ASSAY LABORATORIES

Baker, Oregon  
Grants Pass, Oregon

SAMPLE INFORMATION REQUESTED

The law passed by the Legislature, governing the free assaying and analyzing of samples sent to a State Assay Laboratory, provides that certain information be furnished to the laboratory regarding samples sent for assays, etc. A copy of the law will be found on the back of this blank. Please read the law carefully. Will you please fill in the information called for in the following blank, as far as possible, and return the same to the nearest State Assay Laboratory, along with your sample. If you have made out a blank, this copy is for your future use. Keep a copy of the information on each sample for your own reference.

Your name in full J. E. Morrison

Post office address \_\_\_\_\_

Are you a citizen of Oregon? yes Date on which sample is sent 11/10/37

Name (or names) of owners of the property \_\_\_\_\_

Name of particular claim and date of location Esterly Mine.

Location of property or source of sample:

(1) County Josephine (2) Mining District Waldo

(3) Township 405 (4) Range 8 W (5) Section 22

(6) Quarter Section \_\_\_\_\_

How far from passable road? on road.

For what do you wish sample tested? gold.

Does your sample represent a new discovery? no.

On a newly located claim? no Old? yes.

Has any ore from this claim been milled or shipped? yes.

Width of ore where sample was taken (length of channel cut) tailings sample  
as described 6 samples.

Remarks: The Department would be pleased to have you add to the above, such information as you think would be of interest and value. This could be placed in the space below or upon a separate sheet. This could best be shown by a pencil sketch, indicating the development on the claim with widths of vein, especially the width of ore at the place where this sample was taken.

A sample, to be of value, should be taken in an *even channel across the vein* from wall to wall. Its position in the workings should be marked and the width measured. Assays of unlocated samples, without widths, are of little value. They create but little interest in the minds of experienced investors and engineers.

Signed J. E. Morrison

(Over)



Sur 22 + 29  
T.H.S. RSW

Esterly Mine.

C.R. Stout. - O'Brien Oregon

Location - Listed in state report. under Logan, Simmons Cannery

Fry pit added. + total about 4000 acres.

2. up to 1916.

Sept 1916 sold to George M. Esterly <sup>& associates</sup> for \$140,000  
operated it till his death 1931?

G.W. Hales - Chicago Ill - had some agreement  
with Esterly and now is the owner.

E.H. Nixon - leased Gold Operators Inc of N.Y. <sup>Spring</sup>  
bought it from Hales. E.H. Nixon mgr 1935  
Spring of 1936 Nixon took the lease over.

3. production? ~~about~~ over 1,000,000 yds. 1935 + 36 - \$25,000  
to 1935, since 100,000 yds. 36 + 37 - 15,000

4. Esterly & Nixon did churn drilling. -

5. 1100 <sup>2 miles</sup> middle ditch. (Inches) 750 high ditch. <sup>12 miles</sup> about water  
right in Ill river 1860. 7 months mining season  
Nov 15 to July 1

6. Elev 1500, Fairly Flat - Intermountain. Fairly smooth  
bed rock. Fairly fine gold.  
Clay in places. lots small rocks no large  
boulders. about size of head largest.  
not enough snow to interfere.

7. 4000 ft of pipe. 8 giants - nos 283 2 Hydraulic  
excavators a lot of pitman wheels, 5 Hydro <sup>cl</sup> plates.

saw mill, Machine shop, Blacksmith shop.  
a number of buildings all of which are in  
a fair state of repair.

8. All the easy material mined. just amounts left,  
most of which has to be elevated. Future in  
drag line operations. Higher investment.  
cost 10¢ yd to hydraulic elevate  
cost of drag line cost 5¢ per yd. using petrol wheels.

Fry Pit - J.V. Keating, Chas Strong, A. Strong.  
Waldo Pit Homer, H.T. White.  
Lunnel Pit Stearns, McFarlin, Lute Lute.  
Gravel Plant. Goff.

*See copy*

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 fully and submit this blank filled out along with the sample.

Your name in full Len Ramp (DOGAMI)  
 Street or P.O. Box P.O. Box 417 City & State Grants Pass, Oregon  
 Are you a citizen of Oregon? Yes Date on which sample is sent 7/15/60  
 Name (or names) of owners of the property Journeys End Inc.  
 Are you hiring labor?          Are you milling or shipping ore?           
 Name of claim sample obtained from Esterly Mine

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 40 S Range 8 W Section 22 Quarter section         

How far from passable road? road to mine Name of road Rockydale

Channel (length) Grab Assay for Description

Sample no. 1          x Au, Ag, Pt grp. screened & jigged concentrates from placer tailings.  
 Sample no. 2         

(Samples for assay should be at least 1 pound in weight)

(Signed) Len Ramp

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

Sample Description Black sand.

*Handwritten calculations:*  
 0.12 × 32 = 3.84  
 3.84 × 20 = 76.8  
 76.8 × 20 = 1536



Sample number	GOLD		SILVER		PLATINUM			
	oz./T.	Value	oz./T.	Value	GROUP			
P-25423 UG-168	0.12	4.20	Trace	--	Nil	---	---	---

Report issued          Card filed          Report mailed 8-11-60 Called for

Waters

Preliminary screen test of dump. Sept. 1937.

Purpose. To take enough samples to obtain a fair test of what kind of product can be obtained by screening, and in what sizes the gold values lie. After finding what size to screen to a more thorough job may be done sampling the tailings pile. Most of the samples were taken at old pit (1936) the pit was channeled as deep as was possible without digging it out. Then the dump from the pit was taken to obtain material from the bottom of the pit about 180 lbs was taken for each sample. These were screened into four sizes, each size dried, and quartered down with the exception of the oversize at the final quartering duplicate samples were kept for future stud.

Screens used. 4 mesh - actual opening 17/64"  
8 " " " " 10"  
14 " " " " .06

Sample #1 Taken from plant dump to find loss from plant.  
+8 mesh - 86 lbs. 70.5% - 8 mesh - 28 lb. 24.5. Total 114 lb.

Sample #2 Taken from side loss at plant. ramp. should be good average of cut made by plant.  
+4 - 59 lbs 49.6 - 4+8 - 20 - 17 lbs 14.3% - 8+14 26 - 11 lb. 9.2%  
- 14 - 2a - 32 - 26.9% Total 119 lb.

Sample #3 Old pit close to plant +4 - 74 lb 32.6%  
- 4+8 - 30 - 27 lb 11.9% - 8+14 - 38 - 32 lb 14.1%  
- 14 - 3a - 94 lb - 40.5% 227 lbs.

Sample #4 Second old pit from plant.  
+4 - 73 lb 47.1% - 4+8 - 40 - 21 lb 13.5% #4  
- 8+14 - 46 - 16 lb 10.5% - 14-4a - 45 lb 29% Total 155 lb.

Sample #5 Old pit no 11  
+4 - 113 - 45.5% - 4+8 - 50 - 33 lb - 13.3%  
- 8+14. 56. - 19 lb - 7.6% - 14 - 5a - 83 lb - 33.5% 248 lb.

Sample #6 Old pit no 14  
+4 - 55 lb 30.7% - 4+8 - 60 - 31 lb 17.3%  
- 8+14 - 66 - 27 - 15.1 - 14 - 6a - 66 - 36.9% 179 lbs.

Sample #7 Old pit no 15  
+4 - 84 lbs 46.1% - 4+8 - 70 - 31 lb 17.0%  
- 8+14 - 76 - 20 lbs - 11% - 14 - 7a - 47 - 25.8 182 lbs.

Sample #8 check on samples two through seven.

After quartering each sample the reject from all the samples were mixed with corresponding sizes of the others to obtain an average of that size. This average was quartered down to obtain sample no #8c.

Sample #8c average of sample 2c through sample 7c  
4b " " " 2b " " 7b

22 samples to be analyzed.

Friday Easterly Tailing Test. Run 7. 11/10/37

40 buckets. - estimated - hardage - 13.4 lbs.

1. shovel full from each bucket. - 375 lbs.

No 2 -  $\frac{1}{4}$ " - 145 lbs. +  $\frac{1}{4}$  - 230 lbs.

No 4 Slimes from Big jig.

No 5 Concentrates from Run. approx. 6% -

No 3 Rejects from Big jig 35  $\frac{1}{2}$  lbs. sample.

No 1 Rejects on small jig 260 lbs.

No 6. Concentrates

ESTERLY TAILINGS TESTS.

Sample number	Bank wt. pounds	Screened. Wt. lbs.	% of a bank yd.	Wt. of pebbles.	Wt. of fines	Tot. Wt. Conc'	Free Au. from Con.	Cal. in. per bank yd.	Lbs Conc. per bank yard.	Concen- trating ratio.
A	643	321	21.	3.38	2.5	5.88	2.0¢	9.5¢	270	109:1
1	605	302	20.	2.25	1.5	3.75	1.7¢	8.4¢	18.6	162:1
2	542	271	18.	.25	1.5	1.75	2.0¢	11.1¢	9.7	310:1
3	792	396	26.4	not weighed			10.0¢	37.8¢	--	---
4	631	315	21.	3.00	2.0	5.0	9.0¢	42.8¢	23.8	126:1
5 *										
6	738	367	24.6	1.88	1.62	3.5	4.7¢	19.1¢	14.2	211:1
7	693	346	23.1	1.0	3.0	4.0	1.1¢	4.8¢	17.3	173:1
8	462	231	15.4	2.75	4.5	7.25	1.2¢	7.8¢	47.0	64:1
	843	421	28.0	2.5	8.0	10.5	2.5¢	9.0¢	35.6	84:1
10	755	377	25.0	1.5	2.0	3.5	(17.5¢ omit 70.0¢)		13.9	216:1
11	572	286	19.0	.5	1.5	2.0	7.7¢	40.4¢	10.5	350:1
12	677	338	23.0	not weighed		est 6.¢	5.7¢	25.3¢	27.0	90:1
Totals	7953	3971	-	19.01	28.12	53.13	47.6	160.0	244.6	1395
Averages	663#	331#	= 22.1%	1.9#	2.8#	4.83#	4.3¢	14.5¢	22.2#	141:1

"Pebbles" assayed \$58.10 per ton; "fines" assayed \$17.85 with free gold panned out.

\* This was thrown out because of being from a concentrate pile from High Line pit.

Note:- One cubic yard is taken as 3,000 pounds. Several tests were made, indicating

that this tailings material runs around 2,900 to 3,000 pounds per yard.

Tests on tailings made by Earl K. Nixon and C. R. Stout in October, 1936.

Samples were taken from holes or test-pits dug at points selected as average on all tailings dumps and begin about 1 foot below surface and go down to 7 or 8 feet. All material was weighed, and screened wet to pass  $\frac{1}{2}$ -inch mesh, re-weighed (column 3), and the minus  $\frac{1}{2}$ -mesh passed over test jig twice - using jig first as rougher then as cleaner. Hutch product was then screened and weighed as "red pebbles" (minus 8-mesh), and as "fines", minus 40-mesh.

ASSAY REPORT

ESTERLY MINE SAMPLES

Leslie L. Motz  
State Assayer.

Baker, Oregon  
November 26, 1937

SAMPLE NO.	GOLD Oz. per ton.	VALUE
1A	0.0045	\$0.158
Ramp. — 2A — 14 — 26.9% Trace x		
2B — 8 + 14 — 9.3% 0.0120	0.0120	0.420
2C — 4 + 8 — 14.3% N11 —	N11	
Old Pit close 3A — 14 — 40.5% N11 x	N11 x	
to Plant. 3B — 8 + 14 — 14.1% 0.0030	0.0030	0.105
3C — 4 + 8 — 11.9% 0.0025 —	0.0025	0.088
Second Old 4A — 14 — 29% 0.002 x	0.002 x	0.070
Pit from Plant. 4B — 8 + 14 — 10.3% 0.0030	0.0030	0.105
4C — 4 + 8 — 13.5% 0.003 —	0.003	0.105
Old Pit No 11 5A — 14 — 33.5% Trace x	Trace x	
5B — 8 + 14 — 7.6% 0.00250	0.00250	0.088
5C — 4 + 8 — 13.3% 0.025 —	0.025	0.875
Old Pit No 14 6A — 14 — 36.9% 0.0025 x	0.0025 x	0.088
6B — 8 + 14 — 15.1% N11 0	N11 0	
6C — 4 + 8 — 17.3% N11 —	N11	
Old Pit No 15 7A — 14 — 25.8% Trace x	Trace x	
7B — 8 + 14 — 11% Trace 0	Trace 0	
7C — 4 + 8 — 17% Trace —	Trace	
8A — 14 — 189.6% N11	N11	
8C — 4 + 8 — 87.3% 0.015	0.015	0.525
8D ? 72.3% <del>189.6%</del> .124 on average.	.124 on average.	

Leslie L. Motz, State Assayer.

N - bet sec 23 & 24 Var 18° 30' E.

1.50 - stream 10 lks. course N30°W.

2.50 cultivated field

4.75 cross fence NE - SW.

20.00 Timber

27.00 Leave field.

40.00 set 1/4 cor.

51.00 Ridge

66.50 Ravine

72.50 Ridge

76.50 Ravine

80.00 corner sec 13, 14 23 & 24

N. - bet. Sec. 22 & 23. Var 18°

6.00 Road to Waldo N30°E & S30°W

19.88 a y pine 30 in dia.

40.00 set 1/4 cor. oak 3 in dia. N17°E 20 lks

41.50 a fir 40 in dia. " 6 " " N37°W 60 lks.

80.00 set corner sec. 14, 13, 22 & 23

Pine <sup>24'</sup> N65°E 165 lks.

Oak 8 in S79°W 55 lks

" 2 " S47°E 69 lks

" 4 N15°W 69 lks.

East on random line bet sec 14 & 23

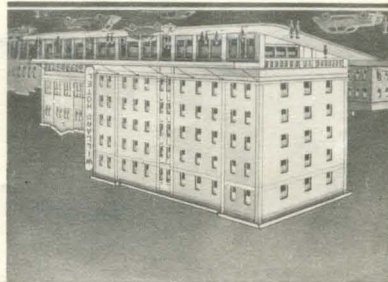
intersect N45 line 0 lks N of post

N89°56'W 79.75

34.50 top of ridge

KLAMATH FALLS, OREGON

WILLARD HOTEL



W. D. MILLER, President  
S. W. PERCY, Manager



Look up Ben Watts - 279 Williams, creek.

Call - Sid Brown.

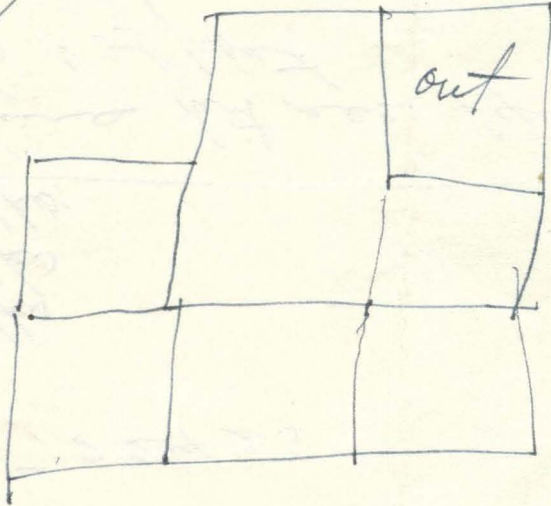
Plans for Mrs C.P. England's dothens are

SE 4 less the NE 4 of sec 21

SE 4 of SW 4 of sec 21

N 2 of NE 4 sec 28

NE 4 of NW 4 sec 28.



OCCURRENCE(S) OR POTENTIAL PRODUCT(S):

POTENTIAL.....

OCCURRENCE..... CR

DRE MATERIALS (MINERALS, ROCKS, ETC.):

GOLD, CHROMITE

EXPLORATION AND DEVELOPMENT

STATUS OF EXPLOR. OR DEV. 4

DESCRIPTION OF DEPOSIT

FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

GEOLOGY AND MINERALOGY

IMPORTANT DRE CONTROL/LOCUS.. CHROMITE OCCURS AS IRREGULAR BODIES IN SERPENTINE.

LOCAL GEOLOGY

COMMENTS (GEOLOGY AND MINERALOGY):

LARGE PLACER MINING PIT EXPOSES SERPENTINE WITH CHROMITE STRINGERS.

GENERAL COMMENTS

SEE ESTERLY MINE FOR PLACER DESCRIPTION

GENERAL REFERENCES

- 1) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 100, 45P
- 2) RAMP, L., 1961, CHROMITE IN SOUTHWESTERN OREGON; ODGMI BULL. 52, P.153
- 3) OREGON METAL MINES HANDBOOK, 1942, ODGMI BULL. 14-C, VOL. 2, SEC. 1, P.194

CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... M013277  
RECORD TYPE..... X1M  
COUNTRY/ORGANIZATION. USGS  
FILE LINK ID..... CONSV  
DEPOSIT NO..... DDGMI 100-394  
MAP CODE NO. OF REC..

REPORTER

NAME..... LEE, W  
DATE..... 74 01  
UPDATED..... 81 03  
BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... LLAND DE DRO PIT NO. 2  
MINING DISTRICT/AREA/SUBDIST. WALDO *Estaly Place*  
COUNTRY CODE..... US  
COUNTRY NAME: UNITED STATES  
STATE CODE..... OR  
STATE NAME: OREGON  
COUNTY..... JOSEPHINE  
DRAINAGE AREA..... 17100311 PACIFIC NORTHWEST  
PHYSIOGRAPHIC PRDV..... 13 KLAMATH MOUNTAINS  
LAND CLASSIFICATION..... 01

QUAD SCALE  
1:

QUAD NO OR NAME  
CAVE JUNCTION

LATITUDE  
42-04-43N

LONGITUDE  
123-38-16W

UTM NORTHING  
4658500.

UTM EASTING  
447250.

UTM ZONE NO  
+10

TWP..... 40S  
RANGE..... 08W  
SECTION.. 22  
MERIDIAN. W.M.

POSITION FROM NEAREST PROMINENT LOCALITY: NW1/4

PRODUCER(PAST OR PRESENT):  
MAJOR PRODUCTS.. AJ  
MINOR PRODUCTS.. PT AG

OCCURRENCE(S) OR POTENTIAL PRODUCT(S):  
POTENTIAL.....  
OCCURRENCE..... U PT

COMMODITY SPECIALIST INFORMATION:

SPECIAL FIELD 3 PLACER

DRE MATERIALS (MINERALS, ROCKS, ETC.):  
PLATINUM METALS, MOSTLY PT W/RU SOME IR, DS, PA, RD

EXPLORATION AND DEVELOPMENT  
STATUS OF EXPLOR. OR DEV. 8

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:  
PLACER  
FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA  
DEPTH TO BOTTOM..... VARIES - AVER 18 FT  
MAX THICKNESS..... 18 FT

COMMENTS(DESCRIPTION OF DEPOSIT):  
HYDRAULICKED

DESCRIPTION OF WORKINGS  
SURFACE

COMMENTS(DESCRIP. OF WORKINGS):  
OVER 30 ACRES HYDRAULICKED

PRODUCTION  
YES  
MEDIUM PRODUCTION

ANNUAL PRODUCTION (DRE, COMMOD., CONC., OVERBURD.)

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 AU	EST	600.000	DOLLARS	12.5	-33.5 CENTS/YD
2 PT	EST	60.000	DOLLARS		PT:AU 1 TO 50 OR TENTH VALUE

PRODUCTION YEARS..... TO 1945

RESERVES AND POTENTIAL RESOURCES

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE OR USE
1 AU			MEDIUM		LARGE AREAS REMAIN UNTOUCHED

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... PLEIS  
 HOST ROCK TYPES..... LLAND DE ORD FM.

PERTINENT MINERALOGY..... CR, MAG, LIM, HEM, IL, EPI, ZIR ETC

GEOLOGICAL DESCRIPTIVE NOTES. BEDROCK VARIES - TERT. CONG., SERP; HORSETOWN (?) SANDSTONE

LOCAL GEOLOGY

- NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES
- 1) NAME: LLAND DE ORD
  - AGE: PLEIS

GENERAL REFERENCES

- 1) OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES, 1952, OREGON METAL MINES HANDBOOK--JOSEPHINE COUNTY, 2 D ED.: OREGON DEPT. GEOLOGY AND MINERAL INDUSTRIES BULL. 14-C V. 2, SEC. 1, 238 P.
- 2) BROOKS, H. C., AND RAMP, LEN, 1968, GOLD AND SILVER IN OREGON: OREGON DEPT. GEOLOGY AND MINERAL INDUSTRIES BULL. 61, 337 P.
- 4) MERTIE, J. B., JR., 1969, ECON. GEOL. OF THE PLATINUM METALS: U. S. GEOL. SURVEY PROF. PAPER 630, 120 P.
- 5) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 100, 45P.

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

COMMODITY SPECIALIST INFORMATION:  
PGM OCCUR

DRE MATERIALS (MINERALS, ROCKS, ETC.):  
CHROMITE

ANALYTICAL DATA (GENERAL)  
RH 0.005 PPM

EXPLORATION AND DEVELOPMENT  
STATUS OF EXPLOR. OR DEV. 4

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:  
MASSIVE CHROMITE  
FORM/SHAPE OF DEPOSIT: IRREGULAR BODIES

SIZE/DIRECTIONAL DATA  
SIZE OF DEPOSIT..... SMALL  
MAX LENGTH..... 50 FT.  
MAX WIDTH..... 10 FT  
STRIKE OF DEPOSIT..... N20E

DESCRIPTION OF WORKINGS  
SURFACE

COMMENTS (DESCRIP. OF WORKINGS):  
DRILLED DURING 1956, 1 HOLE TO 125 FT CONTAINED 78 FT. OF CHROMITE

PRODUCTION  
YES  
SMALL PRODUCTION

ANNUAL PRODUCTION (ORE, COMMOD., CONC., OVERBURD.)

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE, REMARKS
1 ORE EST		1.000	TONS	1918	
2 ORE EST		.078	TONS	1955	45% CR2O3 (CONC)
3 ORE EST		.019	TONS	1955	47% CR2O3 (CONC)
4 ORE EST		.072	TONS	1942	37% CR2O3

21 TOTAL

1.169 TONS

41.80 % CR2O3 (WEIGHTED AVERAGE GRADE)

PRODUCTION COMMENTS.... ORE CONCENTRATED FROM 1300 TONS OF 20% CR2O3; 67 PRDD. ESTIMATED BY RAMP, DO NOT ADD

RESERVES AND POTENTIAL RESOURCES

ITEM	ACC	AMOUNT	THOUS. UNITS	YEAR	GRADE	OR USE
1 CHROMITE	SML					

SOURCE OF INFORMATION (RESERVES/POT RESOURCES).. RAMP, 1961, P 151

COMMENTS (RESERVES/POT RESOURCES).. CHROMITE FOUND IN DRILL HOLE, 1956

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS..... JUR  
HOST ROCK TYPES..... SERPENTINE

IMPORTANT ORE CONTROL/LOCUS.. WHITE MAGNESITE LENSES USED TO TRACE CHROMITE ORE

LOCAL GEOLOGY

SIGNIFICANT ALTERATION:  
SERPENTINE-TALC-MAGNESITE

GENERAL COMMENTS

RECORD NUMBER (M013278) HAS BEEN MERGED WITH THIS RECORD AND DELETED FROM THE OREGON FILE.

GENERAL REFERENCES

- 1) SHENON, P. J., 1933, GEOLOGY AND ORE DEPOSITS OF THE TAKILMO-WALDO DISTRICT, OREGON: U.S. GEOL. SURVEY BULL. 846-B, P. 141-194.
- 2) THAYER, T. P., 1974, UNPUBL. DATA
- 3) RAMP, LEN, 1961, CHROMITE IN SOUTHWESTERN OREGON: OREGON DEPT. GEOLOGY AND MINERAL IND. BULL. 52, 169 P.
- 4) PAGE, N.J, JOHNSON, M.G., HAFFTY, JOSEPH, AND RAMP, LEN, 1975, OCCURRENCE OF PLATINUM GROUP METALS IN ULTRAMAFIC ROCKS OF THE MEDFORD-COOS BAY 2 DEGREE QUADRANGLE, SOUTHWESTERN OREGON: U.S. GEOL. SURVEY MISC. FIELD STUDIES MAP MF-694
- 5) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL DEPOSITS OF JOSEPHINE COUNTY, OREGON; ODGMI BULL. 10 45P.

## CRIB MINERAL RESOURCES FILE 12

## RECORD IDENTIFICATION

RECORD NO..... M060675  
 RECORD TYPE..... X1M  
 COUNTRY/ORGANIZATION. USGS  
 DEPOSIT NO..... DDGMI 100-395  
 MAP CODE NO. OF REC..

## REPORTER

NAME..... JOHNSON, MAUREEN G.  
 DATE..... 76 05  
 UPDATED..... 81 02  
 BY..... FERNS, MARK L. (BROOKS, HOWARD C.)

## NAME AND LOCATION

DEPOSIT NAME..... ESTERLEY CHROME MINE

MINING DISTRICT/AREA/SUBDIST. TAKILMA-WALDO

COUNTRY CODE..... US

COUNTRY NAME: UNITED STATES

STATE CODE..... OR

STATE NAME: OREGON

COUNTY..... JOSEPHINE

DRAINAGE AREA..... 17100311 PACIFIC NORTHWEST

PHYSIOGRAPHIC PROV..... 13 KLAMATH MOUNTAINS

LAND CLASSIFICATION..... 01

QUAD SCALE  
 1: 62500

QUAD NO OR NAME  
 CAVE JUNCTION

LATITUDE  
 42-04-46N

LONGITUDE  
 123-37-39W

UTM NORTHING  
 4658570.5

UTM EASTING  
 448085.4

UTM ZONE NO  
 +10

TWP..... 40S  
 RANGE..... 08W  
 SECTION.. 22  
 MERIDIAN. W.M.

ALTITUDE.. 1520 FT



CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION

RECORD NO..... MO12273  
RECORD TYPE..... X1M  
COUNTRY/ORGANIZATION. USGS  
FILE LINK ID..... CONSV  
MAP CODE NO. OF REC..

REPORTER

NAME..... LEE, W  
DATE..... 74 01

NAME AND LOCATION

DEPOSIT NAME..... CAMERON MINE

MINING DISTRICT/AREA/SUBDIST. WALDO *Esterly*

COUNTRY CODE..... JS  
COUNTRY NAME: UNITED STATES

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

COUNTY..... JOSEPHINE

QUAD SCALE 1:  
QUAD NO OR NAME CAVE JUNCTION

LATITUDE 42-02-34N  
LONGITUDE 123-38-04W

UTM NORTHING 4654500.  
UTM EASTING 447500.  
UTM ZONE NO +10

TWP..... 40S  
RANGE..... 08W  
SECTION.. 34  
MERIDIAN. W.M.

POSITION FROM NEAREST PROMINENT LOCALITY: SW1/4

COMMODITY INFORMATION

COMMODITIES PRESENT..... AU

EXPLORATION AND DEVELOPMENT