1. Plant recovery not satisfactory.

2. Plant recovery $33 per ton gd. (45% from ore, 15% from tailings)

3. Value of ore from draglines from Red Rock (Schmidt 1905, 1908)

4. Reasonable assessment of large nuggets?

5. Value to mining by high grade drying before operation. Schmidt 1905.

6. Estimated 20% of the richest gravel mined prior to immersion.

7. McConnell believes deposit will cost $50 per 0.1 acre.

Profit of 20% in 4 years.

Also estimated at 3,500,000 yardage remaining on profit of $75,000 per 4 years.

8. Bullis figures show ground below Ermann returned $1.00 per cu. yd. (1878-1907) for 2 miles.

Also McConnell samples of face are $1.20 per cu. yd.

(Look up - United Verde Report - see 1911)
THIS AGREEMENT made and entered into this day of March, 1941, by and between EDWARD J. GRASSMAN, of Elizabeth, New Jersey, hereinafter called "First Party" and J. K. WADLEY, of Texarkana, Arkansas, hereinafter called "Second Party,"

WITNESSETH:

WHEREAS the parties hereto have made and entered into a certain mining lease and indenture on the 14th day of January, 1941, which is hereby referred to and made a part hereof, and

WHEREAS the said parties desire to amend the said lease and indenture in the particulars hereinafter mentioned, now, therefore,

It is hereby mutually agreed by and between the said parties as follows:

1. Paragraph 1, page 1, of the said lease and indenture is hereby amended to read as follows:

Party of the first part hereby warrants that he is the owner in fee of that certain mining property situate in Jackson County, Oregon, commonly known and designated as the Sterling Mine more particularly described as follows:

and hereby grants to party of the second part the right upon the execution of this agreement to enter upon the said property for the purpose of testing the same to determine the gold content thereof, said testing privilege to end August 1, 1941, unless terminated earlier or extended or converted into a mining privilege in the manner hereinafter provided. The party of the said part
agrees to perform said testing and conduct the same as diligently as drilling conditions allow.

2. Paragraph 6, pages 2 and 3 of the said lease and indenture is hereby amended to read as follows:

It is agreed that the party of the second party shall have the right to enlarge the testing privilege herein granted to a mining privilege provided notice of his intention so to do is given the party of the first part by registered mail, return receipt requested, to the address of the party of the first part at 433 North Broad Street, Elizabeth, New Jersey. Said notice to be given prior to August 1, 1941, unless the party of the second part shall during the said month and each succeeding calendar month thereafter to and including October, 1941, expend the minimum sum of $500 in the conduct of testing operations on the said property, in which event the said notice may be given during any of the said calendar months succeeding August, 1941, but not later than November 1, 1941, and it is agreed that in the event such notice is given the party of the second part shall be entitled to the full use of the property during the life of the deposit provided the party of the second part shall pay to the party of the first part a minimum royalty or rental of $500 a month beginning on the 1st day of the third calendar month next succeeding the date on which the said notice shall have been given. The party of the second part shall pay to the party of the first part on the 20th day of each month a royalty on the previous month’s recovery of gold or other precious metals equal to ten percent (10%) of the net mill, smelter or mint returns of all ore extracted from the said property, it being the intention of this arrangement to secure to the party of the first part a minimum rental or royalty of $6,000 for the yearly period beginning on the 1st day of the
third calendar month next succeeding the date on which the said notice shall have been given to be paid in monthly installments as hereinabove provided, but should the aggregate amount of royalties paid by the party of the second part to the party of the first part during any such year be greater than the sum of $6,000 then and in that event the party of the first part shall only be entitled to the said royalty payments as herein provided and the monthly payments previously made in said earlier period shall be credited to the total amount due and any balance paid.

3. Paragraph 7, page 3, of the said lease and indenture is hereby amended to read as follows:

Party of the second part agrees to pay all taxes levied against his equipment and property and it is agreed in the event any special taxes are levied against operation or production of gold and other precious metals on said property the party of the first part shall pay ten percent (10%) and the party of the second part shall pay ninety percent (90%) of any such taxes. The party of the second part agrees to pay for taxes, labor, material and other expenses when due and to indemnify, defend and save the party of the first part harmless of and from all claims arising from his operations hereunder. In the event of the failure of said party of the second part to perform any of the substantial terms, covenants or conditions of this lease the party of the first part shall have the right at his option to give him notice in writing to that effect specifying the delinquency, and in the event the party of the second part fails to cure such delinquency within sixty (60) days after receipt of such notice the party of the first part shall have the right at his option to terminate this lease and the rights of the party of the second part hereunder, and the party of the second part shall thereupon be relieved from any provided, however, and all obligations to be hereafter incurred hereunder; that in
the event of any dispute between the parties hereto as to the failure of party of the second part to perform any such substantial terms, covenants or conditions hereof or to cure any such delinquency, then such dispute shall be referred to a board of three arbitrators for decision, one of whom shall be appointed by each of said parties and the third, who shall be an experienced, and competent graduate mining engineer, selected by the arbitrators so appointed and the decision of a majority of the said arbitrators shall be binding on the parties hereto; provided further, however, that in the event of a decision by said arbitrators that party of the second part has failed to perform any such substantial terms, covenants or conditions or to cure any such delinquency then party of the second part shall have sixty days after receipt of the written decision of the said arbitrators to that effect within which to perform such terms, covenants or conditions or to cure such delinquency. In the event of a termination of this lease under the provisions of this paragraph the party of the second part shall have a period of ninety days from and after the date of such termination within which to remove any and all mining machinery, equipment or other property of whatsoever kind and character theretofore placed by him on the said property and in the event weather or soil conditions, acts of God or other causes beyond his control shall operate to prevent such removal during the said period then he shall have an additional period of ninety days after such conditions cease to exist within which to remove the same.

4. Paragraph 12, page 4, of the said lease and indenture is hereby amended to read as follows:

Party of the first part shall not sell, mortgage or otherwise encumber the whole or any part of said property during the period of this lease and this lease and all of the terms, covenants and conditions thereof shall be binding upon the parties hereto, their respective heirs, executors, administrators
and assigns and the party of the second part shall have the
right to assign all of his right, title and interest in and to
this lease, provided that the assignee shall in writing first
assume and agree to carry out the terms hereof.

5. The said lease and indenture as amended by the foregoing
provisions hereof shall be and remain in full force and effect.

IN WITNESS WHEREOF the parties hereto have hereunto
set their hands and seals the day and year first above written.

WITNESS:

__________________________  First Party

__________________________  Second Party
<table>
<thead>
<tr>
<th>Sample</th>
<th>Size</th>
<th>Material</th>
<th>Gold values Cu.Yd</th>
</tr>
</thead>
<tbody>
<tr>
<td>#30</td>
<td>12&quot; x 6'-5'</td>
<td>Sed, s, sands, Fine to Med. Gravels</td>
<td>Trs. Trs.</td>
</tr>
<tr>
<td>#29</td>
<td>12&quot; x 6'-5'</td>
<td>&quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>15. 15.5 g</td>
</tr>
<tr>
<td>#28</td>
<td>12&quot; x 6'-5'</td>
<td>&quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>Trs. Trs.</td>
</tr>
<tr>
<td>#27</td>
<td>24&quot; x 12'-2.5'</td>
<td>&quot; &quot; &quot; &quot; &quot; &quot;</td>
<td>Trs. Trs.</td>
</tr>
</tbody>
</table>

No samples above 17.5 feet were taken, material mostly sediments.

Note: Trs. in Samples #30, #28, #27 did not weight out cmp.

[Signature]
Memo. to Mr. Levensaler;

Drill hole #8, Cross-section "C" was finished to-day; enclosing the Logs.

At Sta. B pit sample #18 was run, the depth is vert. a continuation of #15, 16, & 17, an offset will be made below #18 into the pit Sample. Size, Material Au, mgs. Values per, cu
#18. 12" x 6" -2.5 Sands, Ang. F to Med. G.s 6.5 14.3¢ for 2.5 Clay strata 1 foot.

The celebration for 3 days over the Fourth had its effect in delaying us, the machine shop was the trouble.

In looking over my letter of July 5th. Kindly correct the following in the second paragraph: "the balance of 40 colors were small" to "the balance of 20 mgs. colors were small."
Following is the result of the first trench sample from the face of the present pit. Others will be mailed when completed.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Size</th>
<th>Material</th>
<th>Weight Au</th>
<th>Value Cu, Yd</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>12&quot;x6&quot;x5'</td>
<td>Sand, fine and med. gravels</td>
<td>7 mgs</td>
<td>8¢</td>
</tr>
<tr>
<td>#2</td>
<td></td>
<td>&quot;</td>
<td>11.5 &quot;</td>
<td>12.7¢</td>
</tr>
<tr>
<td>#3</td>
<td>&quot;</td>
<td>Sm. coarse</td>
<td>13.</td>
<td>14.8¢</td>
</tr>
<tr>
<td>#4</td>
<td>&quot;</td>
<td>2.5 sand strata</td>
<td>3.</td>
<td>3.3¢</td>
</tr>
<tr>
<td>#5</td>
<td>&quot;</td>
<td>Sed. sand, F.M. &amp; C.</td>
<td>1. Trace</td>
<td></td>
</tr>
<tr>
<td>#6</td>
<td>12&quot;x6&quot;x3'</td>
<td>&quot;</td>
<td>32.</td>
<td>59¢</td>
</tr>
<tr>
<td>#7</td>
<td>24&quot;x12&quot;x2.75'</td>
<td>sand and med. hard B.R.</td>
<td>106.</td>
<td>55¢</td>
</tr>
</tbody>
</table>

Average gold values in 30.75' bank est. 16.8¢ per cubic yard. There has been some stripping done, 34 feet on the east side, less on the west. I figure an average of approximately 25 feet of stripping was done.

During the month of June six drill holes were completed as follows:

Cross Section 1,243 feet North of Pit Face

<table>
<thead>
<tr>
<th>Hole #7 in Center Line of Pit</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>#1</td>
</tr>
<tr>
<td>#2</td>
</tr>
<tr>
<td>#3</td>
</tr>
<tr>
<td>#4</td>
</tr>
<tr>
<td>#5</td>
</tr>
<tr>
<td>#6</td>
</tr>
</tbody>
</table>

Vertical Height 70.6 feet. Est. gold values per cu.yd. 6.6¢

<table>
<thead>
<tr>
<th>Sam.#</th>
<th>Slope</th>
<th>Size</th>
<th>Material</th>
<th>Mgs.re.</th>
<th>Est. cu.yd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>#8</td>
<td>20°</td>
<td>12&quot;x6&quot;</td>
<td>8.5 Mopsoils, Sands, Fine gravels.</td>
<td>85</td>
<td>25.8¢</td>
</tr>
<tr>
<td>#9</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 Sands, with F.G.s.</td>
<td>5</td>
<td>1.7¢</td>
</tr>
<tr>
<td>#10</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 ditto</td>
<td>3</td>
<td>1.3¢</td>
</tr>
<tr>
<td>#11</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 ditto</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#12</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 &quot; sm. sed, s.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#13</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 ditto</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#14</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 - 12&quot; Cl. str.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#15</td>
<td>90°</td>
<td>12&quot;x6&quot;</td>
<td>3.5 Sed, S, Angular F. &amp; M. G.s</td>
<td>2</td>
<td>2.3¢</td>
</tr>
<tr>
<td>#16</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>ditto</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#17</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>3.5 ditto</td>
<td>1</td>
<td>1.1¢</td>
</tr>
<tr>
<td>#18</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>3.5 &quot; with 12&quot; Cl. str.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#19</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>3.5 Sed, S, Angular F. &amp; M. G.s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#20</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>ditto</td>
<td>5</td>
<td>5.5¢</td>
</tr>
<tr>
<td>#21</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 ditto</td>
<td>12</td>
<td>13.3¢</td>
</tr>
<tr>
<td>#22</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 &quot; with Coarse G.s</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>#23</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 &quot;</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>#24</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>5.5 &quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#25</td>
<td></td>
<td>12&quot;x6&quot;</td>
<td>1.5 &quot;</td>
<td>6.5</td>
<td>23.9¢</td>
</tr>
<tr>
<td>#26</td>
<td></td>
<td>24&quot;x12&quot;</td>
<td>4.5 Bedrock &quot; .5 into porphyry</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All bank material puddled before rocking. Samples bet. #15 & #26 incl. picked into vertical face before sampling.

Mr. W. Wether
<table>
<thead>
<tr>
<th>Hole</th>
<th>Values at</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>`</td>
</tr>
<tr>
<td></td>
<td>`</td>
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<tr>
<td></td>
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<td>`</td>
</tr>
<tr>
<td>Val</td>
<td>60 `</td>
</tr>
<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td>5.74</td>
<td>`</td>
</tr>
<tr>
<td>P.C.Y.</td>
<td>`</td>
</tr>
<tr>
<td>D = 89'</td>
<td>`</td>
</tr>
<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td>E = 31'</td>
<td>B.R. 73 l'</td>
</tr>
<tr>
<td>8</td>
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<td>`</td>
</tr>
<tr>
<td>Val</td>
<td>85 `</td>
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<tr>
<td></td>
<td>`</td>
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<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td>7.7 + 2.4</td>
<td>`</td>
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<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td>D = 88.5</td>
<td>`</td>
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<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td>E = 31'</td>
<td>B.R. 73 l'</td>
</tr>
<tr>
<td></td>
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<td>9</td>
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</tr>
<tr>
<td>Val</td>
<td>85 `</td>
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<td>8.5</td>
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<td></td>
<td>`</td>
</tr>
<tr>
<td>D = 91.5</td>
<td>`</td>
</tr>
<tr>
<td>E = 31'</td>
<td>B.R. 73 l'</td>
</tr>
<tr>
<td>11</td>
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<td>`</td>
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<td>`</td>
</tr>
<tr>
<td>Val</td>
<td>66 `</td>
</tr>
<tr>
<td></td>
<td>`</td>
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<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td>6.3</td>
<td>`</td>
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<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td>D = 66.5</td>
<td>`</td>
</tr>
<tr>
<td></td>
<td>`</td>
</tr>
<tr>
<td>E = 31.77</td>
<td>B.R. 73 l'</td>
</tr>
</tbody>
</table>

- 76' above B.R.
- 22' above B.R.
- 14' above B.R.
- D' above B.R.
- 21' at B.R.
- 21' at B.R.
- 46' above B.R.
- 41' above B.R.
- 42.7' below B.R.
Sterling Mine, 6/23/1941
Jacksonville, Oregon

Memo to Mr. Lawrence:

Find enclosed Field Logs, Drilling Reports of Drill Holes #4 & #5 Cross-section, Hole #4. Weight of gold Traces - Value per cu. ft. 5.5 mg. ft. 3.... 5.74

The drill is on the Western rim of the deep channeled drill hole Station #7. Casing down 87 feet, on account of the excess clays in the core, which are being jumbled down near the creek, I am unable to give any idea of gold values, I just wish that occasionally to test the dumps, only to recut the same after clays are removed. I look for this hole to go at least 50 feet down, or more, if McCormick's information on his drill test #5 was correct.

On Station #6, approx. 150 feet East of the Pearson residence, bedrock was 21.5 feet, the hole was continued to 36 feet.

Walter

Please send me a copy of McCormick's Sanford Co. Field Logs. 6/14/32, I have plenty of drilling reports.
4. Turned down after examination:

5. Turned down without examination:
   13. Reed gold - Shasta Co., California.
   17. Empire Silver Corp. - Tienne d'Alene, Idaho.
Here is a brief summary of activities during the first quarter of 1941.

1. General - Quarter: [Gross receipts: 1600.00 less 224.50 = Cash on hand - Seattle First N.B. = [Gross receipts: 1475.50]

2. Sterling

3. Properties more or less under consideration awaiting more data, or the proper opportune time for examination:

   - Sterling Creek - Jackson Co., Oregon
   - Hidden Lake - Deer Lodge Co., Montana
   - Crocken gold - Blaine Co., Idaho
   - Emont gold - Beaverhead Co., Montana
   - Almeda gold - Josephine Co., Oregon
Turned down

1. Memphis Group gold - Charleston, Nevada
2. Del Monte Group gold - Sparta, Oregon
3. Manning Creek gold - Oromocto, N.B.
4. McAlister Antimony - Colorado (Co.), Y.T.
5. Bullard Mine gold vein - Arizona
6. Winterspring Group gold - Cripple Creek, Colorado
7. Fairview

2. Sterling plan gold - Jackson Co., Oregon

Examination and exploration
(February 15, 1903, and March 9, 1904.) Expenses $315.

1,476.25
1,500.00, negotiations apparently satisfactory.
The company operated a tungsten project in Colorado from which it produced a ton per day came from the Calico project.

In 1915, it was leased to Canada. The complaint alleged that 78% of the stock was issued to the promoters as "promotion stock" at times when, in 1915, a similar stock sold for $1.10 per share. It was also sold "on which stock he could not vote unless he owned it." When promotion stock was listed, the owners had to state that they would not vote for stock that was not voted by the owner.

On December 12, 1917, the stockholders voted to issue stock to F.B. Van Humble and J.B. Reichenbacher. The stockholders' meeting was on July 16, 1917.

The stockholders' meeting was held on July 16, 1917, and the stockholders voted to issue stock to F.B. Van Humble and J.B. Reichenbacher. The stockholders' meeting was held on July 16, 1917.
HOTEL MEDFORD
COMMERCIAL MEN'S HOME
EMIL MOHR, Manager
MEDFORD, OREGON

1. Robinson plant,fighting to Medford mine.
2. " " " " " " " " " " unclaimed 1907.
3. " " " " " " " " " " 1908.
What year did the shutdown?
4. " " " " " " " " " " 1913-14.
1. Wet carrying capacity 7500 sec. ft.
2. Where terminate this line.
3. Does it include penstocks etc.?
4. Time required?
5. Energy furnished or not.

Normal day H2O 40 sec. ft. ? 150 days.
1. M2 Connect figures: 100,000 feet (1/2)
production 7500 sec. ft. 400/day.
time to produce
yardage handled
270'/800'
42' in.
W. L. & D.

according to my highest Co owner & engineers
as now = 15,000 from 1907 to 2000.

Gateway to Crater Lake, Diamond Lake and Lake O' the Woods
<table>
<thead>
<tr>
<th>276,000</th>
<th>336,000</th>
<th>100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>216,000</td>
<td>300,000</td>
<td>20,000</td>
</tr>
<tr>
<td>432,000</td>
<td>616,000</td>
<td>186,000</td>
</tr>
<tr>
<td>27</td>
<td>18</td>
<td>37</td>
</tr>
<tr>
<td>0.7</td>
<td>2.0</td>
<td>2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Face</th>
<th>10 5/8&quot;</th>
<th>11 7/8&quot;</th>
<th>12 3/4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; x 10&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 x 4 4/8&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 20/32&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.7 1/32&quot;</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>0.7 1/32&quot;</td>
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</tbody>
</table>

Face: 10 5/8" x 11 7/8" x 12 3/4"
14 @ 70

\[ \frac{55}{10} = \frac{v}{59} \]

28 - 17
37.5 - 9
77 - 19
78 - 3.8
615 - 2.7
90 - 90
80 - 9.2
50 - 4.2
90 - 6
75 - 2

\[ \sqrt{76} = 8.76 \]

76 / 8.76 = 21.92565

761 / 21.92565 = 34.88

6176 / 6088 = 1.19

28.84 \text{ f.p.c.} / 40\text{ ft.}

and 90\text{ ft.}

for 13\text{ Rules}
Distance from face to hole 5
2 - El. at 45° or other holes (13°40')
3 - Water Right other than those marked
4 - Can this be factoring continued?
5 - Are all grounds patented
6 - Cost of Grand Plant complete with hotel and mine
to handle 150yd per hour?
7 - Knowledge of overhead cavalry
8 - J. H. 6-13
9 - Where all J. H. 6-13
10 - Where 050° on hanging stations
El?

Lm 16,000 at your face
1 3 4 0

Gateway to Crater Lake, Diamond Lake and Lake O' the Woods
\[ \frac{5280}{22} \]
\[ \frac{10560}{2640} \]
\[ \frac{13200}{1270} \]
\[ \frac{924000}{26400} \]
\[ \frac{3564000}{70} \]
\[ 24,480,000 \]
\[ 243 \]
\[ \frac{9000000}{1570000000} = 0.02121212121212121 \]
\[ \frac{370}{233} \]
\[ \frac{90}{2070} \]
\[ \frac{2100}{4000} \]
\[ \frac{840000}{840000} \]
HOTEL MEDFORD
COMMERCIAL MEN'S HOME
EMIL MOHR, Manager
MEDFORD, OREGON

7500 / 200,00 / 0.84

3 @ 10 30
3 @ 10 60
6 @ 5 30
1 @ 5 5
1 @ 15 20
2 @ 5 150.00 / 0.064

2000 20 $15

27\
17
10
104

1 / 2

15d
15d
30d
"The Sterling Gold Quartz and Milling Company has developed a group of claims near the north line of section 33, T. 38S., R. 2 W., at an elevation of about 2800 feet by barometer. The lower adit is about 240 feet long following a vertical quartz vein 1 foot or less in thickness associated with fissuring filled by calcite and sulphides. The middle adit is about 60 feet long following quartz stringers which strike S. 70° E. and dip about 50° N.E. The upper adit is about 400 feet long; it enters as a crosscut, and then drifts on crushed zones in the country rock, one of which strikes N. 15° W. and is nearly vertical. Seams of calcite, quartz, and some pyrite run in all directions. The main crushed zone strikes N. 45° W. and dips about 80° S.W. Some stoping has been done irregularly in this zone. No work has been done for the last few years."

Reference: Winchell, 14:133

STERLING MINE (Placer) Upper Applegate area

Owner: Sterling Mines, Inc. Operated by Quercus Corporation of Elizabeth, N. J., as lessee.

Location: secs. 27, 28, 30, 33, T. 38 S., R. 2 W., and secs. 4, 8, 9, 17, 18, T. 39 S., R. 2 W., on Sterling Creek, a tributary to the Little Applegate River. The creek is 7 miles long; elevation at its source is 3000 feet and at its mouth is 1850 feet.
Area: 1800 acres, patented.

History: Parks & Swartley, 16:213 described the property as follows:

"The Sterling Placer Mine is on Sterling Creek, from 1 to 4 miles above its mouth, at Buncom, on Little Applegate River, and is owned by R. S. Bullis, of Medford. The present workings are on the south line of sec. 33, T. 38 S., R. 2 W., at an elevation of about 2300 feet. A large electric power pump has recently been installed, by means of which pressure at the nozzle has been increased to the equivalent of a head of about 200 feet. The gravel is so thoroughly cemented that much of it must be broken with powder before using the giants. The deposit is 20 to 40 feet thick and about 400 feet wide. Drifts have been run on bedrock ahead of the giants about 100 feet. The gravel contains boulders of andesite and some quartz. According to G. F. Kay:

"The values are found across a width of nearly 200 feet. In these gravels the tusks and jaws of a mammoth, as well as mammalian bones, have been found. The bedrock at the mine is greenstone, in which are patches of slaty tuffs, whose strike is N. 80 E. and dip is about 600 W. The slope of the bedrock is about 2 feet in 100 feet. The length of the working season varies from 6 to 9 months. The value of the gravels was about 40 cents to a cubic yard. Total production is said to exceed $3,000,000."

Considerable hydraulic mining has been done for a distance of 4 out of the 7 miles extending upstream from the mouth of Sterling Creek at Buncom. No records of the yardage moved are available, but it is stated
that over $3,000,000 has been recovered from this mining. Mining was first done by hand, then by hydraulicking on a large scale after 1852. The first company was organized in 1872, and the 30-mile Sterling mine ditch was constructed by Chinese labor to carry 75 second-feet of water out of the Upper Little Applegate River to a point approximately four miles up Sterling Creek above Buncom. First records of gold shipments date back to 1878, and are continuous until 1917.

The Ankenys, of Portland, purchased the property in 1877, had the long ditch built, and operated the property for 30 years. The Sterling Mining Company operated from 1909 to 1914. R. S. Bullis worked the property from 1914 to 1919.

**Development:** From 50,000 to 100,000 cubic yards of material above the level of the ditch have been tested for treatment in washing plants of several designs and capacities. Tailings and ground formerly worked by bedrock drifting below the ditch have been hydraulicked each year, during a 5 months period between January and July. About 2½ miles of virgin channel above the level where the ditch line crosses Sterling Creek remain.

**Geology:** Sterling Creek flows at about a 4 percent grade between low hills, and the largest flat is approximately 1500 feet wide. Bedrock consists of greenstone and argillite. The average thickness of the gravel mined has been about 40 feet for a width of from 200 to 400 feet, following the ancient channel. The gravel becomes very much wider near the head of Sterling Creek. It contains considerable clay; some large boulders are found that average 3 to 4 feet in diameter. The gold is medium to coarse with relatively little black sand. Some nuggets are found that range in value from $1.50 to $100. The largest known nugget was valued at $500.
Sterling Mine (placer)

The gravel contains values ranging from 10 cents to $1.00 in value; in "hot spots" $40-pans have been washed out.

**Equipment**: The washing plant and three giants together with flume necessary for gold recovery receive water from the 30-mile Sterling mine ditch. The giants operate with 3½- and 5-inch nozzles, under a 300-foot head. Eleven to sixteen men are employed.

The water right dates back to 1877 for water during the period from November to August 1st of each year. Normal precipitation is about 15 inches per annum, but the mine depends on the snowfall in the Dutchman Peak region of the Siskiyou Mountains.

**Reference**: Parks & Swartley, 16:214 (quoted).

**Informant**: D. Ford McCormich, February 6, 1940.

* * * * * *

- 4 -
Crib Mineral Resources File 12

Record Identification

Record No.: MC61475
Record Type: XIM
Country/Organization: USGS
Map Code No. of Rec.: 001

Reporter

Name: Johnson, Maureen G.
Updated: 81-01
By: Ferns, Mark L.; (Brooks, Howard C.)

Name and Location

Deposit Name: Sterling Gold Quartz Mining Co.
Mineral District/Area/Subdist.: Upper Applegate
Country Code: US
Country Name: United States
State Code: OR
State Name: Oregon
County: Jackson
Drainage Area: 17 Applegate River
Physiographic Prov.: 13 Klamath Mountains

Quad Scale
Quad No or Name: Tarent
1: 62500

Latitude
42-13-43N

Longitude
122-56-35W

UTM Northing
4674950.0

UTM Easting
504700.0

UTM Zone No.

+10

Twp.: 38S
Range.: 02N
Section.: 33
Meridian: Willamette

Altitude: 2800 ft

Location Comments: N Line

Commodity Information
Commodities Present: Au Ag Ag
COMMODITY SUBTYPES OR USE CATEGORIES:
0.628 Au:Ag

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV.: 4

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
VEIN/SHEAR ZONE
FORM/SHAPE OF DEPOSIT: STRINGERS, SEAMS

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT: SMALL
STRIKE OF DEPOSIT: N45W
DIP OF DEPOSIT: 80SW

DESCRIPTION OF WORKINGS

COMMENTS (DESCRIP. OF WORKINGS):
ABOUT 700 FT OF CROSSTUNES AND DRIFTS ON THREE LEVELS. SOME STOPES

PRODUCTION
YES
SMALL PRODUCTION
23 Au, SML SOME PRE 1914 AU

GEOLGY AND MINERALOGY

AGE OF HOST ROCKS: PERM-TRI
HOST ROCK TYPES: ANDESITE
PERTINENT MINERALOGY: QUARTZ, CALCITE

LOCAL GEOLOGY
NAMES/AGE OF FORMATIONS, UNITS, OR ROCK TYPES
1) NAME: APPLEGATE GROUP
   AGE: PERM-TRI

GENERAL REFERENCES
1) Winchell, 1914
CRIB MINERAL RESOURCES FILE 12

RECORD IDENTIFICATION
RECORD NO. ............... MC61166
RECORD TYPE .............. X1M
COUNTRY/ORGANIZATION .. USGS
MAP CODE NO. OF REC. ..

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

NAME AND LOCATION
DEPOSIT NAME .............. STERLING MINE
MINING DISTRICT/AREA/SUBDIST. UPPER APPLEGATE
COUNTRY CODE .............. US
COUNTRY NAME: UNITED STATES
STATE CODE ................. OR
STATE NAME: OREGON
COUNTY ....................... JACKSON
DRAINAGE AREA .............. 17100309 PACIFIC NORTHWEST
PHYSIOGRAPHIC PROV ........ 13 KLAMATH MOUNTAINS
LAND CLASSIFICATION ..... 01

QUAD SCALE .......... QUAD NO OR NAME
1: 62500 .................. TALENT

LATITUDE ............ LONGITUDE
42-13-47N .............. 122-56-19W

UTM NORTHING ........ UTM EASTING ............ UTM ZONE NO
4675057.5 .............. 5050733.2 .................. +10

THP ........... 38S
RANGE .......... 02W
SECTION ......... 28-33
MERIDIAN .......... WILLAMETTE

POSITION FROM NEAREST PROMINENT LOCALITY: ON STERLING CREEK

COMMODITY INFORMATION
COMMODITIES PRESENT ....... Au

PRODUCER (PAST OR PRESENT):
ANALYTICAL DATA (GENERAL)
GRAVELS SAID TO RUN $0.40/YD IN 1914 (0.02 OZ/YD)

EXPLORATION AND DEVELOPMENT
STATUS OF EXPLOR. OR DEV. 4

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
PLACER

FORMS/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA
SIZE OF DEPOSIT: SMALL
MAX LENGTH: 7 MILES
MAX WIDTH: 400 FT
MAX THICKNESS: 40 FT

DESCRIPTION OF WORKINGS

COMMENTS (DESCRIPTION OF WORKINGS):
HAND, HYDRAULIC AND BEDROCK DRIFTS

PRODUCTION

YES
MEDIUM PRODUCTION
SMALL PRODUCTION

CUMULATIVE PRODUCTION (ORE, COMM) = CONC. + OVERBUR.)
16 AU EST 0150.000 OZ 1852-1914
17 AU EST SOME 1914-1930'S
23 AU, EST 3000.000+ DOLLARS 1852-1919 AU ($0.40/YD)

RESERVES AND POTENTIAL RESOURCES

ITEM ACC AMOUNT THOUS. UNITS YEAR GRADE OR USE
1 GRAVELS SOME

GEOLOGY AND MINERALOGY

AGE OF HOST ROCKS: PLEIS
HOST ROCK TYPES: CEMENTED GRAVELS

GEOLOGICAL DESCRIPTIVE NOTES: BODERS OF GREENSTONE, BOULDERS OF ANDESITE & QUARTZ; PLEISTOCENE FOSSILS; GRAVELS ARE CEMENTED