

Not from file

680236

Okanagan Lake  
White Elephant  
082L/04E

Pre Cambrian Gold property.

**LOCATION:-** The property is located near the north end of Lake Okanagan on the west side.

**FORMATION:-** Located in a district classified by Dawson in 1881 as Pre Cambrian. Rocks in immediate vicinity are granites and grano-diorites cut by intrusive dikes. The ore body is massive quartz with irregular stringers of pyrrhotite. Near the surface next to both walls there were two to four feet of pyrrhotite. The vein has been traced for over one half mile, and over this ridge to the south work done on claims, which should be on or near the vein according to the strike and dip of the known vein, has shown good values.

Through the quartz and the accompanying pyrrhotites occurs crystals and veinlets of telluride of bismuth. There is also free gold in the quartz, a small amount of silver, and during development work some tungsten in the form of scheelite was found.

**Ore body:-** The ore body at the surface was forty seven feet wide, on the two hundred foot level it measured seventy two feet in width, and on the three hundred foot level was well over fifty feet wide.

**RECORD OF PRODUCTION:-**

First work was done in 1923 . A glory hole started from the surface from which 309.25 tons of ore were shipped, without treatment, produced	10042.83
Ore left on dump-1000 tons at \$7.40 per ton	7400.00
1933:- First year of production by the late company, with the mill operating only about six weeks, and most of that time spent in experimenting	2625.02
1934:- Ore- not treated or sorted 53 tons	4300.00
Concentrates	30830.23
Free gold, recovered by the Denver unit	4618.26
1935:- Concentrates	7019.12
Free gold	2073.33
	<hr/>
	65908.79

In 1932 and inclined shaft was started from the fifty foot level by a raise to the surface. Very good ore from this work was put aside for treatment, but was never put through the mill and is still on the ground.

Operations for 1934, after depreciation on property, buildings, and equipment showed a profit of \$3060.87 These figures were compiled by a C.P.A.

Property was purchased in 1928. Price paid \$15000.00 for claim alone. In fall-winter season of 1928-1929 a twenty five ton pilot mill was put up, water supply acquired and a pipe line 4000 ft long was put in. The mill ran for a short time in summer of 1929 for less than thirty days on low grade ore to shake mill down and work out flow sheet. A good rate of concentration was made, but a shortage of water forced a stoppage of operations.

In 1933 about \$3000.00 was raised and put into further development work. Mill was run again for only a short time on ore out of the glory hole. Most of the time was spent in experimenting with the mill methods to get a more satisfactory rate of concentrations

In 1935 by a special offer to the stockholders \$15000.00 was raised. A larger diesel engine was installed in the mill, Denver units replaced the original flotation cells, and other changes were made in the mill, but no real development work done during the summer.

In fall and winter of 1934-1935 the inclined shaft was pushed down to the three hundred foot level on borrowed money.

On account of a fault in the ore body near the 100 foot level, the high grade ore shoot worked in 1934 was not picked up on the lower levels before work was stopped.

The lower value of the ore available for milling at the beginning of the 1935 season, the shortage of pyrrhotites for flotation froth, and the change in the character of the ore to base ore, which required cyanide treatment that we were not equipped for, and the shortage of capital forced a shut down of operations July 1, 1935.

Failure of some of the Seattle creditors to co-operate with the B.C. creditors, and suits started to foreclose on the property, prevented the raising of capital, and forced the company into a receivership.

Before the shut down considerable work had been done on the three hundred foot level. At the end of a drift 107 feet from the bottom of the shaft there was uncovered an ore shoot 7 feet wide which showed assays around \$13.00 per ton. Work was done on a cross cut and drift in another direction and although appearances indicated no values, assays ran from a trace to \$23.00 per ton.

GOLD PRODUCTION

PRE CAMBRIAN GOLD MINES

to July 1st, 1935

Date	Weight	Material	Smelter Lot No.	Value per ton		to July 1st, 1935	
				Gold oz.	Silver oz.	Gold @ \$35	Silver @ .60
1922-3	7257	Sorted ore	"A"	4.16	0.83	\$ 530.23	
	1451	" "	1	3.29	1.4	84.15	
	50550	" "	2	3.89	0.80	3,453.13	
	62801	" "	3	2.68	0.70	2,958.58	
	230	High Grade	4	53.295	9.075	215.13	
	75431	Sorted ore	5	2.10	0.60	2,785.62	
	69031	Unsorted ore	6	0.85	1.25	1,052.70	
	71101	" "	7	0.55	0.30	690.14	
	93521	" "	8	0.44	0.30	726.60	
	95531	" "	9	0.52	0.40	823.01	
	61552	Sorted ore	10	2.24	0.50	2,422.07	
	32000	" "	11	2.50	0.60	1,125.76	Lost in lake
	1000	tons from sorting		0.37	0.25	12,950.00	\$30,027.12
<u>1933</u>							
9/16	6904	Concentrates	1258	2.20	0.61	\$ 278.39	
0/7	16478	"	1447	6.03	1.30	1,738.83	
"	6573	"	1448	1.15	0.27	132.26	
"	8737	"	1449	3.71	0.82	567.25	
1/17	14957	"	1720	2.99	0.82	782.63	
1/24	11950	"	1744	3.19	0.41	667.10	4,166.46
<u>1934</u>							
5/25	102780	Unsorted ore	1105	2.261	0.20	4,066.76	
5/25	4604	L.G. Concentrates	1106	2.07	0.24	161.14	
7/12	50815	Concentrate	1376	6.71	0.75	5,966.94	
7/29	9579	"	1445	6.87	0.67	1,151.64	
8/14	27890	"	1716	10.77	0.96	5,256.57	
"	20599	L.G. Cons.	1717	1.28	0.06	461.40	
"	18005	Concentrates	1717 1/2	11.26	0.03	3,547.88	
8/18	10315	"	1737	6.585	0.43	1,180.55	
8/26	10203	"	1836	7.48	0.66	1,335.57	
9/12	57007	"	2078	2.74	0.21	829.45	
0/19	28550	L.G. Cons.	2329	0.935	0.47	467.14	
"	40038	Concentrates	2329 1/2	5.19	0.45	3,636.47	
1/23	58148	"	2733	4.45	0.76	4,528.26	34,589.77
<u>1935</u>							
2/7	640	Old sacks	457			39.87	
5/8	41630	Concentrates	2067	6.14	0.70	4,473.14	
"	9867	L.G. Cons.	2067 1/2	1.03	0.11	177.87	
7/12	42881	Concentrates	2574	3.12	0.17	2,446.29	7,137.17

Total Ore and Concentrates - \$75,920.52

GOLD PRODUCTION

PRE CAMBRIAN GOLD MINES

BULLION SHIPPED TO MINT FROM AUGUST, 1934 to JULY, 1935

<u>Date</u>	<u>Weight oz.</u>	<u>Fineness Gold</u>	<u>Fineness Silver</u>	<u>Fine Gold oz.</u>	<u>Value of Silver</u>	<u>Total Value Gold &amp; Silver</u>	
<u>1934</u>							
7/27	41.95	736.5	067.	30.896	\$ 1.26		
8/17	41.425	774.25	076.	32.073	1.43		
8/24	45.19	803.03	077.	36.288	1.64		
9/20	24.225	682.00	072.	16.521	0.81		
9/25	23.875	813.50	087.	19.442	0.97		
11/9	32.575	993.00	081.	23.929	1.52		
11/27	36.97	864.75	112.	31.970	2.19		
12/26	16.075	750.75	079.	12.068	0.66		
<u>1935</u>							
3/18	8.00	780.5	076.	6.205	0.35		
6/4	17.740	978.75		17.763	1.19		
6/28	17.259	995.74		17.259	1.13		
7/20	26.925	667.00		17.959	1.14		
				<b>TOTAL</b>	<b>262.373</b>	<b>\$14.26</b>	<b>\$ 9,197.31</b>
Total from shipments of ore and concentrates							<b>75,920.52</b>
Total production from 6,600 tons mined							<b>\$85,117.83</b>
Average ore stoping 20 to 50 feet wide, per ton							<b>\$ 12.90</b>

PRE CAMBRIAN GOLD MINES

To the Stockholders of  
PRE CAMBRIAN GOLD MINES:

Following is a report on the operations of the mine  
and mill for the period from January 1st to October 31st, 1934:

MINE WORK:

Lineal feet drifts and crosscuts	236'
Lineal feet stope raise	230'
Lineal feet shaft advanced	70'
Total lineal feet underground work	476'
Tons of ore mined and trammed to mill, stopping from 15' to 20' wide without sorting	2,794

MILL OPERATION AND PRODUCTION:

(Mill started operation June 15, 1934)	
Total number hours mill operated	2,812
Total number tons of ore treated	2,740
Average value per ton ore treated	\$16.30
Percent recovered per ton	88.9%
Percent recovered after unit cell installation	94.7%
Tails for the SEASON averaged per ton	\$1.80 ✓
Tails since installation of new cells averaged per ton	\$0.93
Tons of concentrates produced	157
Average value per ton concentrates	\$189.40
Tons of ore shipped	54
Value per ton of ore shipped	\$78.00
Gross value of concentrates (estimated)	\$29,733.32
Ounces of free gold recovered (not included in concentrates)	168.3
Gross value of free gold (estimated) \$34.45 per oz.	\$5,797.93
Total gross value recovered, including ore shipped	\$39,748.49

NEW CONSTRUCTION:

Additional 106 h.p. diesel engine installed  
Change of flotation cells to all Denver Unit  
and "Sub A" cells  
Additional concentrate settling and drying  
building for winter, 16 x 32 feet.  
New two-story bunk house, capacity 40 men, 24' x 48'  
Mill and other buildings insulated for winter.

MINERALI-  
ZATION:

Extract from the Report of Dr. C. E. Cairnes,  
Geologist of Summary - Report: Geological Survey  
of Canada for 1931 - Part A - page 87A.

"The quartz is mineralized in a peculiar fashion. A large part of it is almost completely barren of visible minerals.\* However, within the first 12 feet or so of either wall, streaks, bunches, and lenses of pyrrhotite occur. Some of the lenses are as much as several feet thick. These pyrrhotite masses contain a network of narrow, fine-grained, dark greenish yellow, vein-like bodies composed mainly of minute pyrite grains, but with some interstitial quartz and tiny, irregular quartz veinlets. The pyrite grains are arranged in a series of almost microscopic rows parallel with the sharply defined, pyrrhotite walls.

"Other minerals in the deposit include a bismuth telluride (tetradymite), chalcopyrite, and (?) free gold. No free gold was positively identified in the specimens examined, but it is reported that specimens were discovered, during initial operations on the property, in which flakes of native gold were interleaved with plates of the telluride mineral. The latter is the most interesting of the metallic constituents of this deposit. It is a tin white, very soft, mineral occurring either in massive form, somewhat resembling steel galena, or in tabular, foliated masses showing perfect basal cleavage. The flat surfaces of such masses are tarnished and, in part, filmed with chalcopyrite and (?) free gold. The telluride occurs as particles and small masses disseminated through the quartz without, it appears, any particular relation to the pyrrhotite bodies."

"\*The writer was informed that some scheelite had been found associated with the quartz in the outcrop."