

June 8 : Miscell. Notes on Otter Creek

June 8/74 ①

Otter Plains Ltd (R. Day File) - Good Data 800744

French Co from late 1920's to 1932 hydrofractured approx 2 M cy. of glacial till on Otter Creek. This creates Otter Creek deep channel gravels for the first three miles of the creek with an avg. depth of 80 feet. Present creek has removed some of this till overburden.

French Co's ops. produced an avg. 10¢/cy (at 20.67) or 16.9¢ @ 35. Johnson's sampling of the till indicates an avg. 15.7¢/cy for the ~~top~~ till on B. section - cut to 15¢/cy for est. purposes @ 35 gold price. Undy'd (dist.) ops. (avg 174: 4.5% x 15¢ = 68.6¢/cy.)

Top (Meran) level mined 7' high for a dist. of ± 400'

'Strand' & 'Bedrock' levels mined 7' x ± 900'

Above produced approx \$200,000 @ 35 between 1932-39.

\* Johnson's 1939 undy'd sampling shows over 700,000 remain in this section @ 35 (avg 174: 700,000 x 4.5 = \$3,150,000!) (base gold)

It is questionable whether or not the Meran level contains <sup>in situ</sup> ~~original~~ <sup>original</sup> ~~layer~~ <sup>layer</sup> if its values originated from a high level <sup>in situ</sup> ~~point~~ <sup>point</sup> on the right bank, since eroded.

The lower  $\frac{2}{10}$  mile, (above line 5) on Otter Creek have been prospected by one line of five 6" drill holes @ 300' below the drifted area and by 35 undy'd samples - most of which were from one to two cy. in content taken from the 900' off <sup>the</sup> ~~part~~ drifted area.

Prospecting  $\frac{1}{5}$  of drifted area by (2.6 mi. of channel tested) done by one 110' and two 32' shafts (stopped by heavy water flows): 39 drill holes, (5" & 6") put down. Columns from two of the undy'd <sup>(shaft)</sup> cuts averaged 4.95 mgms whereas two of the best drill holes in same area averaged 2.52 mgms. → indic % of drill losses.

\* Prospecting by Otter Plains Ltd, from 1939 to date, on the lower 2.8 mi., indicates a pro recovery of \$5,206,080 from 8,976,000 cy. of channel gravel averaging 58¢/cy (at 35) & 600,000 ton glacial till 4,000,000 cy. @ 15¢/cy.

On Cotton Creek 28% of gold recovered in excess of 8¢/colum

Summary, Rept by Dudley L. Davis, Feb., 1974.

Other or properly amounts of 10 placer lenses are shown on B.C.D.M. maps 104N/11W(N) Placer??

Current report uses Johnson (cover page) data.

Allen area, 1898-1949, recorded - \$22,539,892.00  
 Estimates: non-revised - 20,000,000.00 } @ 20.07

W Johnson 19,500,000 cy @ \$140/cy → \$2,730,000 gross w. 10%  
 including 1/2 of total yardage (@ \$140) vol. at 60¢/c.y.

W Johnson states (D. Davis agrees) that chain drilling (based above estimates) recovers only half of the gold present in the 'drill column' (W.A.)

There is additional untested channel up stream which could double above gross values !!

Suggested Operating Budget (1974 season)

new equip. to be purch & assembled	-	\$ 300,000	*
Fuels & Wages @ \$10,000/mo - 5 mo	-	50,000	
Supplies & miscell @ \$10,000/mo	-	50,000	
Washing Plant & related facilities	-	80,000	
Buildings, drain ditch, trailers			
ampul area		20,000	
<u>Total</u>	-	\$ 500,000	

Income Sept - Oct.	-	\$ 300,000
less royalty @ 20%	-	60,000 (to A. Mattson)
<u>net</u>	-	240,000

Background Colas (Davis):

Block	Distance	Avg. Sec Sq Yds	* some rental - purch. Vol. Cu Yds
Sta 16 - line 5	66 yds	1600 ✓	105,600
line 5 - Sta 20 + 75'	92 "	1600 ✓	147,200
(1) Sta 20 + 75' - Sta 23 + 90'	105 "	1950 ✓	204,800
Sta 23 + 90' - Sta 29	170 "	2150	365,500
<u>Sub Total</u>	433		823,000

For drilled area "in return" \$1,153,920 cy (to Mattson data) for this col.

(2) line 3 to line 1 - 333 yds - 1923

Extracts for Report

LOWER OTTER CREEK (first opp. u/s of rock sluiceway)

1906 - prospecting by Malvern, Jamecan etc. - report good indic

1907 - installing headworks hydraulic plant

1908 - Compl. install'n of hydr. plant & move 112,000 cy. from north (east) bank of Otter Creek (fiv 100's u/s of rock sluiceway)

1909 - During seasons "stripping" ops, the present creek bed. \* (modern channel) piped into sluice and a fair (?) amount of gold recovered.

1910 - 250,000 cy. of overburden removed during b.t.r. search but ops terminated when reservoir dam broke; next higher dam also burst. Bal of season on rehab'n.

1911 - 21 Keystone holes on altern. X-sec's to creek, all sunk to bedrock; values in all holes reaching b.r., avg. depth of channel found to be 44' (w. ref. to buried, ruins prob.). \* X

1912 - 5<sup>th</sup> new plant install'ns.

1913 - Moved 150,000 cy overburden & excav 400' x 8' deep rock sluice (map) - prob to replace orig. high lev. tailing ditch.

Keystone drill indic old channel swinging eastward under high till bank (prob from point in creek opposite upper trav. 27)

1915 - 150,000 cy via hydraul strip but still above b.r. Sluice boxes advanced 750' u/s.

1918 - 18

1919 - Pit advance ± 300' u/s but did not reach floor of channel. but note br. crops up in right hand (west) corner of last pit. minor Au recovered. - width of channel estim. @ 200'; removed ab. of glacial drift & clay which was absolutely barren. 220,000 cy. removed.

1920 - prob 150,000 cy. drift etc sluiced → 10,100 gold estim 62¢/cy. \* X

1921 - Estm 10,000 from 200,000 cy. o.b. (including 2,000 from product on highway) → 5¢/cy. \*

1924 - Continue to try to reach bedrock channel. -

Drilling precluded by boulders.

Conclude, lean paystreak exists on gravels over silty harbor main " " over floor of old channel -

Malvern concludes that opt'n should be restarted

1925 - on via a lower cut from Surprise L.

presumably moved to lowest (lake) pit to further ops (drift & hydraulicking) (1940)

Older creek:

mm report:

1938 - "Francis" -

(B 30) <sup>Older</sup> <sub>lower</sub> <sub>hole</sub> <sub>(pd)</sub> Drift mining up to 40' width gravel pay - whys settling & squeezing - require new drift along run to reach up-stream whys.

1939 -

(A103) Optimum nature by water plants etc, San Fran, sealing prospect 2 hft + 1 mi ups of pits and drill set up to det in thickness of obstructing sand part.

1940 Ops suspended

(88)

1941 - 3 men on hydraulicking; 2 drifting in bench

(83)

1943 - all hydraulicking; 13,000 cy; wedged whys farther up abandoned.

1945

(124) - Prep acquired by W. Johnston Co. - tested by Keystone drill during summer.

1946 - no work

1948 - access work - test drilling & ditching opposite the old camp site.

(A172)

1949 - Laure Matton & W. Sweet did some further test drilling

(A237)

\* 1950 - 3 Keystone holes drilled (6" dia) on east bank of  
(A197) Or about 1 mi above surprise L. B.R. #140' deep.

1955 - 4 Keystone holes drilled