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Report on
Fosters Bar Placers
by
Dr John Dawson

92I/NW-89-07

PROPERTY FILE

Owned by
Bob Black
Box 340
Lillooet B.C.

FOSTERS BAR PLACERS, REPORT by Dr. John Dawson P.Eng.
Situating on the Fraser River, between Lytton & Lillooet, B.C.

Location of
6 Placer
Leases
480 Acres

The following is my Report and Findings, on Six Placer Mining Leases, (three miles of rich Aluvial Gravel) each Lease one-quarter by one-half mile.

The property is situated 1 mile from Hiway Number 12, 23 miles North of Lytton, British Columbia, Canada. A very good road leads from the main hi-way to the property, max. 9% grade. Elev. 560'.

Climage &
length of
Season

The property is in the dry belt, average precipitation one inch per year, Summers quite hot, Winters moderate, Operating season not less than 10 months per year.

River
widths &
depths of
Aluvials

At the southern boundary of the property a box canyon 370' wide, a belt of Argillite, and eroded Shale crosses the river, the shale acts as a natural riffle, and Gold was found by the writer to a depth of three feet, in the crevices.

One half mile up river is the tail end of Fosters Bar is showing, the river is 800' wide at this point, 400 yards farther up river, is the start of Fosters Bar, the river is 1208' wide, the estimated depth of the Aluvial (pay gravel) is 100' thick.

Right-angle
Rock.
See Map

400 yards above this point, the river narrows down to 460'. Right-Angle Rock is a Natural obstruction to the straight flow of the river, this is of hard Granite, 100' Diameter and 60' above high water line, this obstruction forces the river to make a direct left flow setting up an immense back-eddy, which acts as a gigantic Concentrator, and is loaded with the heavy minerals, GOLD. PLANTINUM. SILVER. in the Black Sand, and heavy Grey Sand Concentrates.

Tests up
River from
Right-angle
Rock

For another two miles up river, the writer took samples every 200', to a depth, of 2', one cubic foot (measured) this was panned down to Concentrates, in each test, 52 Samples in all, the Concentrates from the 52 measured cubic feet of gravel was placed into a sample bag and sent to the Provincial Govt., for Assay, the results, as follows; (GOLD only) \$4.12 per cubic yard, these samples were taken from Tailings (Tailings refer to the gravel that has been worked previously, by Placer Miners) The Gold I recovered, in part, was not recovered by the early miners, but it must be realized that every Freshett turbulates the gravels on the bottom of the river, and the light gold is deposited in the Clays farther up on the bank of the river. This is called Turbulance Deposits.

Top Lease

The north boundry of the uppermost Lease is quite different from the lower 5 Leases, because of the large boulders in evidence and a River Bar, exposed only at low water. A Dyke crosses the river at this point, with steep rock bluffs on the N.E. side of the river.

The Bar will, contain heavy course gold, owing to the bar and the large boulders thereon.

Special test
on Fosters
Bar

The writer hired three Indians from across the river, and with Mr. Black and myself, dug a test shaft on Fosters Bar, 9' deep, 6' long, 3' wide, a total of 6 Cubic Yards were removed from the shaft.

This gravel was concentrated by the use of a sluice box, as carefully as possible, the concentrates taken from the Sluice box which was cleaned up approx. 24 times in the processing of the six cubic yards, all the concentrates washed from the blanket were washed out into a round bath tub, I then finished the concentration by hand panning.

Results

Six Cubic Yards Yielded 5.25 ounces of Gold, One Nugget 1.75 ozs. one Nugget 1.2 ozs. The total refined concentrates, including all the Nuggets were sent into the Provincial Assayer, for assay.

Geology

It is my considered opinion, that the Course gold found in this area, is of local origin, and was eroded from the belts of Argillite and Schists, that cross the river, Rich free milling Lode-Gold properties lie to the North of this area, namely, "Gold Cache" "Bonanza" "Ample" "Pioneer" and "Lorne".

Glacial deposits is responsible for many rich Aluvials in the Fraser River Fault, Gold in gravel will settle until it reaches a strata which will hold it, over the eons of time, many forms of strata is present, namely, Clay, Conglomerate, (cemented sand, gravel and clay), and Bed-Rock.

Between the North boundry of the top Lease, and the South boundry of the lower Lease, (where the shale Bed-Rock crosses the river) a great parabolic basin exists. In this basin there is an estimated 40 to 50 Million Cubic Yards of Pay Gravel. 400 to 600 hundred Cubic Yards of gravel will yield 1 TON of Black Sand Concentrates.

Conclusions

It is concluded therefore, that this property should be placed in production forthwith.

Dr. John Dawson P. Eng.

Recommendations

After my examination of the above mentioned Placer Property the right Equipment must be employed, A Drag-Line, Sky-Line will reach to any depth, and transverse the entire width of the river. A Front-End Loader will handle the tailings along the shore. Airlift suction dredges have been very successful in the recovery of Diamonds off the coast of South Africa, to depths over 200'.

NOTE The Equipment listed below is capable of producing 700 cubic yards daily

Necessary Equipment Costs June 1972	Drag-Line, Sky-Line	\$25,000.00	
	Bulldozer with hydraulic angle blade	12,000.00	
	Two yard front-end Loader to mount on cat	2,500.00	
	Four-wheel drive truck	4,500.00	
	Trommel 4' x 20'	3,000.00	
	Three undercurrent boxes	1,500.00	
	Duplex Jig 12" x 18"	3,500.00	
	Pumps & Hose Screens	1,500.00	
	Concentrating Table	3,000.00	
	Diesel-Electric, Power Unit	5,000.00	
	Old auto transport, to mount recovery equipment	2,500.00	
	Fuel, lube oil, tanks, etc.	1,000.00	
	Contingencies	<u>3,000.00</u>	
		\$68,000.00	
	Labour	Foreman	
Cat operator			
Sky-Line operator			
Mechanic			
Welder-Mechanic			
Labourer			
Cook			
Estimated set-up time - 60 days		\$18,700.00	
Costs	Cookhouse loss MONTHLY \$400.00	\$ 800.00	
	W.C.B., U.I.C, Holiday pay	1,200.00	
	Insurance, yearly	<u>2,500.00</u>	\$ 4,500.00
	Equipment		68,000.00
Labour, For 60 days		<u>18,700.00</u>	
TOTAL COSTS		<u><u>\$91,200.00</u></u>	

Assay Results Taken by C.A. McAlpine, P.Eng.

	GOLD	PLATINUM	SILVER
On 600 cubic yards	47.76 ozs	5.08 ozs	37.35 ozs
producing 1 Ton	97.00 "	5.83 "	45.00 "
of Black Sand	39.40 "	4.12 "	28.23 "
Concentrates.	114.95 "	8.50 "	65.35 "
Average	74.55 "	5.88 "	43.98 "

74.55 ozs Gold	@ \$50.00 per ounce	\$ 3,727.00
5.88 " Platinum	@ 100.00 " "	588.00
43.98 " Silver	@ 1.25 " "	54.97

Gross Income Daily \$ 4,369.97

Approximate daily costs 500.00

Approximate daily net profit \$ 3,869.97

Weekly Income, 5 days, 40 hours \$19,349.85

Yearly Income, estimated on 40 weeks per year \$773,984.00

Right Angle Rock



Shale
Bed Rocks.

Foster's
Bar
Gold BEATING GRAVEL

EDDY

Bed Rocks.

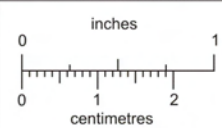
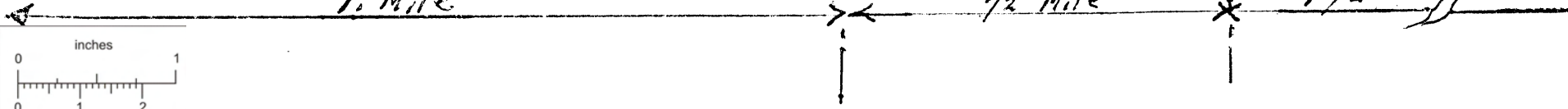
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Estimated
70'

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Estimated
100'

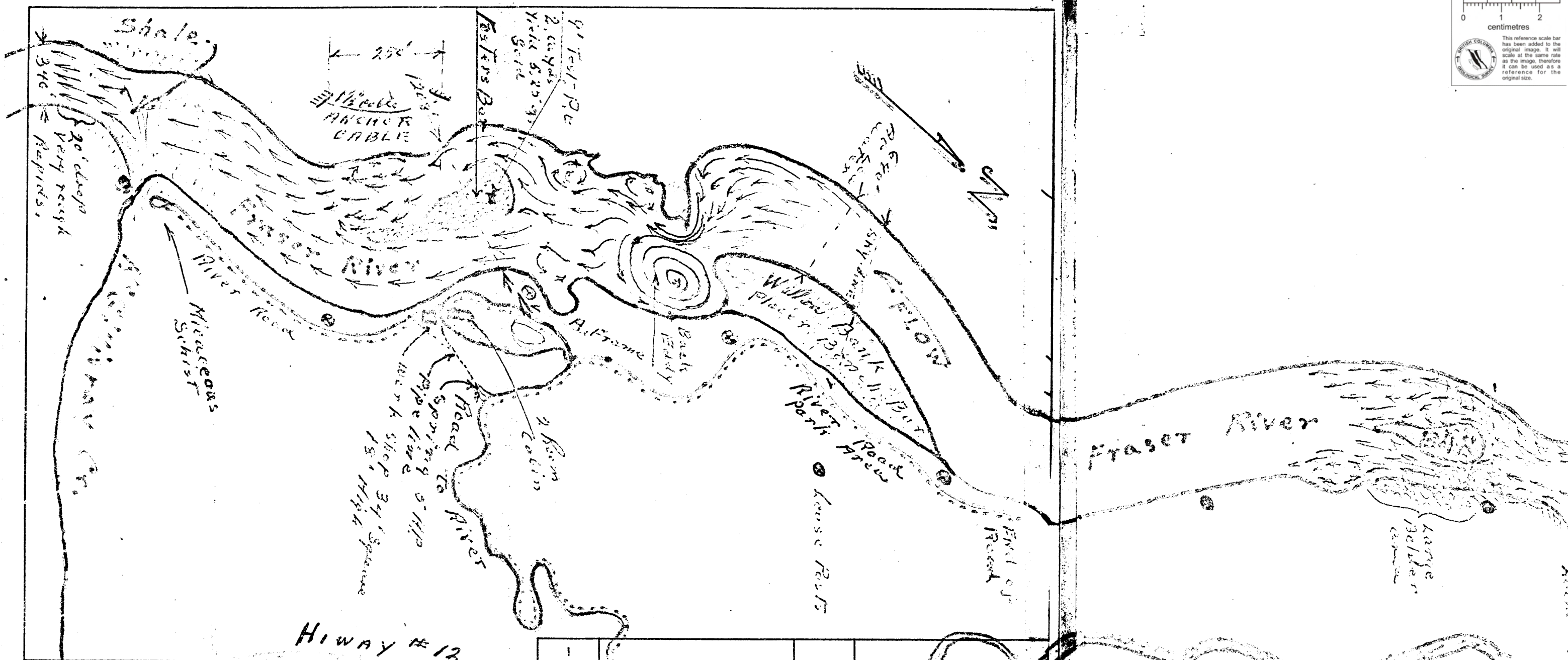
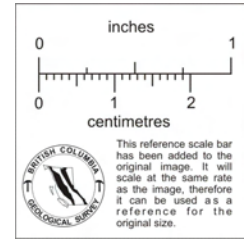
1. Mile

1/2 Mile

1 1/2 Miles →



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



1	PART	DESCRIPTION	REQ'D	MATERIAL
	DRAWN BY:		DATE:	
	SCALE:		DRAWING NO.	

#12 HIWAY