

THE CROSSLEY ENGINEERING CO.

Nelson, B. C.

March, 19th, 1935

ASSAY OFFICE NO.
11656-11664

ASSAYS

MADE FOR THOMAS BROWN ESQ. M.E.
MR. STIBBS SEC. TRES.
LIBERTY-LORNE MNG. CO.
NELSON B. C.

<u>MARK</u>		<u>GOLD OZ.</u>	<u>SILVER OZ.</u>
	No. 1. Tunnel Flying Dutchman M.C.		
# 1.	Quartz & Iron-Sulphides, Width 13'6"	0.14	0.60
# 2.	Selected, 15" streak, in vein near Portal.	1.68	0.9
	No. 2. Tunnel		
# 3	1'0" Dark quartz from Hanging-wall	0.19	0.4
# 4	6'6" Quartz Iron - Sulphides	0.19	1.0
# 5	5'6" Quartz & Iron - Sulphides	0.16	1.0
# 6	5'0" Quartz & Iron - Sulphides	0.14	0.8
# 77	2'0" Selected, Hanging-wall, near floor of tunnel	0.41	0.7
			3.9
	"H. B." No. 1 Claim		
\$ 8	Selected No. 1 Tunnel	0.04	0.6

"Cecil E. Crossley"

PROVINCIAL ASSAYER.

Information Re Flying Dutchman Group of Mineral Claims. Hall Creek, B.C.

The Flying Dutchman Group of fourteen (14) claims are situated on the north side of Hall Creek and immediately west of Noman Creek, A feeder of Hall Creek, in the Nelson Mining Division- and lies approximately seven (7) miles of the City of Nelson. B.C.

The H. B. Group of five (5) claims lie immediately south of The Flying-Dutchman group and are separated by Hall Creek.

History; The Flying Dutchman and H. B. Group first drew the attention of Mining men between the years of 1895 and 1897. Some portion of the Flying Dutchman Group were owned and operated in 1898 by an American Mining Operator, and considerable Ore then extracted was shipped by Pack-Mule to the United States on behalf of its then owner.

The Flying Dutchman and H.B. Group saw many vicissitudes of early Mining activities in British Columbia and changed hands some many times. Some few years past the property came into the hands of O. A. Tapanila who in turn transferred his Title therein to the Liberty- Borne Gold Mines Ltd.

Assays; Taken from time to time- more as A test to ascertain that activity in hand and proposed was justified, rather than with any view to ultimate data for purposes of financing as effective in the present issue- nevertheless, carry much weight as to future values,

Assays; Flying Dutchman Group- The following are the results of the samples of Ore submitted to The Crossley Engineering Company of Nelson, B.C.- and assayed as of October 3. 1933.

Assay No	Mark;	Gold Oz,	Value	Copper (%)	Value.
2200	No. 1 Average Sample, "Gold Coinage" Claim	0.15	\$ 3.00	4.7%	\$ 8.46
2201	No. 2 Selected, " Rainbow Hill " Claim	0.535	\$10.70	2.4%	\$ 4.32
2202	Selected " Rainbow Hill " Claim	0.54	\$10.80	8.0%	\$ 14.40
2203	Selected, "Rainbow Hill" Claim	0.50	\$10.00	4.7%	\$ 8.46

Assays(continued) Flying Group-

Surface cut Sample Assay, \$3.00 \$8.00 and \$10.00
 " Gold Coinage " claim sample Assays \$3.00 Gold, and \$ 8.46 Copper.
 " Rainbow Hill " claim Sample Assays, 1. 10.70 Gold and 4.32 Copper
 2. 10.80 Gold and 14.40 Copper
 3. 10.00 Gold and 8.46 Copper
 H. B. Group- Assays-\$2.34 to \$177.40 in free Gold, The 15in Vein that continues into the Fern Property gave one assay of \$400.00

Utilities;

Flying Dutchman Group & H. B. Group, Are both $3\frac{1}{2}$ miles from the Great-Northern Railway Station at Hall the interveing distance being covered by good Automobile road.

Power; (Electric) is available from the West-Kootenay Power and Light Company immediately Machinery, etc is installed, The nearest Poles of such Power Company are $3\frac{1}{2}$ miles distance from the property at Hall. Water-Power and Timber exists in copious quantity at the propertyes.

Group by Group Report Continued. Flying Dutchman Group- A solid group of 14. claims, comprising claims known as " Flying- Dutchman" "Phoebus" " Iona" " Dewdrop" "G. B. C." "SkOOKum Boy" "Rainbow- Hill" " Gold-Coinage" "Trixie" "Trixie No 1" "Trixie No 2" "Madden" "Tapanila and "Gold-Coinage NO 12" .

This group contains (7) known vein systems of which one(I) vein shows width of 15 feet. another 32 inches, whilst the "Rainbow" vein averages 10 feet in width and is traced for 1500 feet.

The main vein has been opened on two levels. The second level, 70 to 80 feet below the first, embraces 120 feet drift following 146 feet of crosscut, Ore commencing 40 feet from ~~xxxxxixix~~ start of drift.

"H. B. Group- A solid group of five claims, known respectively as "H.B" "H.B No 1" "H.B No 2" "F.T." and "H.T", containing three known veins developed by crosscut and two drifts.

On the H.B Claim, crosscut is 175 feet long and has todote exposed only one of the three veins. A 14 inch fissure vein, intersected at 70 feet. This vein at the surface is, however, from $2\frac{1}{2}$ to f feet wide and has been ~~exposed~~ at 500 foot intervals for a distance of 2.600 feet.

On The H. B. no 1. are two drifts on the 2nd vein. No 1 level, 175 feet long, exposes vein 7 feet wide, No 2 level, 40 feet below No, 1 has opened the vein for a distance of 60 feet.

The last ~~xxxx~~ claim also has a 15 inch vein continuing into the Fern Mining Property and is traced for 350 feet at surface.

History of Consulting Engineer.

Thomas Brown- Consulting Engineer, Nationalty- Canadian, British Columbia
1894- Chief Chemist, Pilot Bay Smelter, B.C.

1895-6- Le- Roi Mines, Rossland, B C.

1896-7- Superintendant Glen Iron Mine, Kamloops, B,C.

1901- Exploation Engineer, Henderson's British and Transvaal Estates, Johannesburg, South Africa. Manager, Seaforth Concession, Swazieland, South Africa.

1902-4 Engineer, Maganite Explosive Co. Cap~~ne~~ Town, South Africa.

1908- H3- Engineer, Motherlode, Golden Belle, Kootenay Belle, and Sheep Creek Gold Camp.

1914 - Chemist, Canadian Government Electric Zinc Smelting Commish^{ism}

1915- 27 Engineer, Slocan Silver Lead Camp.

Flying Dutchman Group. - Report by Oscar A. Tapanila Mining Suptintendant in charge of property December. 1934.

Two years small scale development work on Hall Creek Gold properties owned by Liberty Lorne Mining Syndicate, and situated just above the recently ~~opened~~ Reopened FERN MINE, will be continued during 1935, and further exploration of Ore bodies now opened will be carried out.

These properties, which were opened by Nelson Capital, are The " Flying- Dutchman, of 14 claims on the north side of Hall Creek. and the H,B, Group on the south side, about $3\frac{1}{2}$ miles up from HALL, the H, B, Group being next to the FERN.

Approximately \$30,000 worth of work has been done on the associated groups. ~~throughout the early days~~ including that of the early days, and the Flying Dutchman, though not under that name, shipped Ore by pack-train to Idaho in 1898 for its owner of that day, Today the area is served by road from Hall.

DUTCHMAN, VEINS WIDE.

Development on the Flying- Dutchman Group which is so far the low-grade property, is principally on the Flying - Dutchman vein, which has a width of about 15 feet, though there are six other known veins on that property, including the Rainbow vein, 10 feet wide, which has been traced on the surface for 1,500 feet and averaged \$3.00 where sampled, carrying upward to \$10.00 one of the narrower veins, 32 inches wide, assays better than \$3.00 in surface cuts, while the values in the Flying - Dutchman vein are around \$10.00.

This main vein is opened on two levels, both dating from the early days, While No, 1 level, a drift 60 to 80 feet long, shows mineralization at both ends - in the floor near the portal, and on the hanging wall at the inner end of the working the Ore developed in on No, 2 level, embracing 120 feet of drift following 146 feet of crosscut, which produced the Ore shipped to Idaho in the early days, Ore that began about 40 feet from the start of the drift, Milling Ore shows in the floor of the tunnel.

To push into Ore.

It is intended to extend this level further into the Ore body, and it is planned later to develop new depth, by a new ~~crosscut~~ crosscut which will cut the vein in the Ore- body about 300 feet below No, 2.

The Flying Dutchman vein is remarkably persistent and apparently outcrops also about 800 feet above Hall Creek where its width is 20 feet.

On the left side of Hall Creek, going up, is situated the H,B. group, across the creek from the Flying Dutchman, and is served directly by the road, from which a trail three- quarters of a mile long goes to the Flying Dutchman.

Reports, Geology, Etc, Continued.

H. B. High, Grade.

High ~~showing~~ Grade showings characterize the H, B. Group, which is intersected by three veins, The group being developed by a crosscut and two drifts, The crosscut, which is confined to the H, B, Claim, and is 175 feet long, has so far exposed only the first vein, A 14-inch fissure vein, which is intersected at 70 feet, on the surface, however, this vein is much wider, varying from 2½ to 4 feet wide, and has been trenched at 500 foot intervals for a distance of 2,600 feet, Values run from \$2.34 up to \$177.40 in free Gold.

An independent development exists on H, B, No, I claim, which has two drifts on the second vein.

No, I level, 175 feet long, with the vein showing seven feet wide, showed .58 ounces gold per ton for a grab sample No, 2 level 40 feet below, has opened the vein for 60 feet, but assays are not yet available.

This ^{claim} vein also has a 15- inch vein from the Fern property, which has been traced for 350 feet on the surface, or as far as the heavy overburden will allow, This vein pans values for the whole distance, and a grab sample from surface trenching, broke up in a crucible and showing a heavy gold streak, was roughly valued at \$700.00 to the ton.

Power. AVAILABLE,

Water - Power and Timber are available, and of course in the event of a large operation, Commercial Power from the West-Kootenay Power and Light Company's Transmissioh line is within easy reach at Hall.

H.B. Group, comprising the following Uncrown granted. Claims.

F.T. Mineral. Claim.

- H. T. " "
- H. B. " "
- H. B. No, 1 " "
- H. B. " 2 " "

The Flying Dutchman Group.

- Flying Dutchman, Lot 5146. C.B.
- Phoebus, " 5147. C.G.

	No.	3059.	3060.	3061.	3062.	3063.	3064.	3065.	3066.	3067.	3068.	3069.	3070.	3071.	3072.	Tag No.	Dist
IONA,	33898.	3059.	3060.	3061.	3062.	3063.	3064.	3065.	3066.	3067.	3068.	3069.	3070.	3071.	3072.	A 95055	# 71
Dewdrop,	33899.	3060.	3061.	3062.	3063.	3064.	3065.	3066.	3067.	3068.	3069.	3070.	3071.	3072.		A 45056	
G. B. C,	33900.	3065.	3066.	3067.	3068.	3069.	3070.	3071.	3072.							A 45057	
Skookum Boy,	33901.	3066.	3067.	3068.	3069.	3070.	3071.	3072.								A 45058	
Rainbow. Hill,	33902.	3061.	3062.	3063.	3064.	3065.	3066.	3067.	3068.	3069.	3070.	3071.	3072.			A 45047	P. V
Gold Coinage,	33903.	3062.	3063.	3064.	3065.	3066.	3067.	3068.	3069.	3070.	3071.	3072.				A 95045	
Trixie,	33904.	3063.	3064.	3065.	3066.	3067.	3068.	3069.	3070.	3071.	3072.					A 95046	
Trixie, No, 1.	33905.	3064.	3065.	3066.	3067.	3068.	3069.	3070.	3071.	3072.						A 95049	
Trixie, No, 2.	33906.	3067.	3068.	3069.	3070.	3071.	3072.									A 95048	
Madden,	33907.	3068.	3069.	3070.	3071.	3072.										A 95050	M L
Tapanila,	33908.	3068.	3069.	3070.	3071.	3072.										A 95052	
Gold Coinage. No, 1.	33909.	3069.	3070.	3071.	3072.											A 95051	
		3070.	3071.	3072.												A 95053	
		3071.	3072.													A 95054	