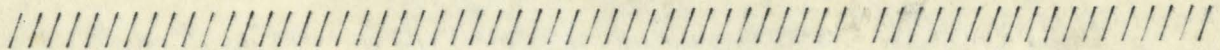


THE NORTH WEST CORPORATION LIMITED.

GRANVILLE PROSPECTING

05787



<u>Sample No.</u>	<u>Claim No.</u>	<u>Shaft No.</u>	<u>Material</u>	<u>Weight</u>	<u>Gr. Fl.</u>
170.2 101.71	20724	1	Y.G.	358. mg	5.5
446.01-148.67	198	1	B.R.	2569. mg	9.0
6.87 1.68	199	2	Y.G.	29. mg	6.6
33.38 13.60	200	2	W.G.	235. mg	1.1
208.34-92.59	201	2	B.R.	1600. mg	12.0
96.82 1.39	202	3	Y.G.	24. mg	5.5
37.62 6.13	203	3	W.G.	106. mg	4.4
500.00 125.00	204	3	B.R.	2160. mg	6.75
442 1.62	205	4	Y.G.	28. mg	9.9
110.29 3.48	206	4	W.G.	233. mg	3.3
2198.34 465.56	207	4	B.R.	25325. mg + 18.0 22.000	18.0
3.12 1.27	208	#3W	Y.G.	22. mg	11.0
3.24 1.45	209	3W	W.G.	25. mg	12.1
1125.44 347.22	210	3W	B.R.	6000. mg	8.88

GRANVILLE PROSPECTING 1919

1 Oz. Troy -- 480 Grns.
 1 Mgrm. -- 0.015432 Grns.

Gold -- \$18.00 per Oz.
 -- 0.05787¢ per Mgrm.

<i>cents per cub. ft.</i>	<i>cents value</i>								
		Sample 11	Line 35-W	3-S	Y. Gravel	55.00	- mg.		<i>9.9</i>
<i>8.67</i>	<i>3.18</i>	12	Line 35-W	3-S	W. Gravel	22.00	- mg.		<i>20.9</i>
<i>1.64</i>	<i>1.27</i>	13	Line 35-W	3-S	Bedrock	110.00	- mg.		<i>4</i>
<i>42.93</i>	<i>6.36</i>	14	Line 35-W	4-S	Y. Gravel	50.00	- mg.		<i>8.8</i>
<i>8.87</i>	<i>2.89</i>	15	Line 35-W	4-S	W. Gravel	102.00	- mg.		<i>18.7</i>
<i>8.52</i>	<i>5.90</i>	16	Line 35-W	4-S	Bedrock	105.00	- mg.		<i>9</i>
<i>18.21</i>	<i>6.07</i>	17	Line 35-W	5-S	Y. Gravel	17.00	- mg.		<i>6.6</i>
<i>4.00</i>	<i>.98</i>	18	Line 35-W	5-S	W. Gravel	31.00	- mg.		<i>17.6</i>
<i>2.75</i>	<i>1.79</i>	19	Line 35-W	5-S	Bedrock	227.00	- mg.		<i>6</i>
<i>59.13</i>	<i>13.14</i>	20	Line 35-W	6-S	Y. Gravel	22.00	- mg.		<i>11.0</i>
<i>3.12</i>	<i>1.27</i>	21	Line 35-W	6-S	W. Gravel	155.00	- mg.		<i>9.9</i>
<i>24.46</i>	<i>8.97</i>	22	Line 35-W	6-S	Bedrock	30.00	- mg.		<i>4.0</i>
<i>11.74</i>	<i>1.74</i>								

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-- 0.05787¢ per Mgrm.

	<i>Cost per cu yd.</i>	<i>Cents value</i>							
<i>average per cu yd</i> 9.97	2.97	1.45	Sample 23	Line 82-E	1-S	Y. Gravel	25.00 mg		<i>See Fl.</i> 13.2
	24.41	10.94	24	Line 82-E	1-S	W. Gravel	189.00 mg		12.1
	20.13	6.71	25	Line 82-E	1-S	Bedrock	116.00 mg		9.0
	2.00	1.22	26	Line 82-E	2-S	Y. Gravel	21.00 mg		16.5
2.54	5.34	1.74	27	Line 82-E	2-S	W. Gravel	30.00 mg		8.8
	8.17	1.21	28	Line 82-E	2-S	Bedrock	21.00 mg		4.0
	4.84	1.97	29	Line 82-E	3-S	Y. Gravel	34.00 mg		11.0
2.26	1.07	.35	30	Line 82-E	3-S	W. Gravel	6.00 mg		8.8
	15.59	2.31	31	Line 82-E	3-S	Bedrock	40.00 mg		4.0
	2.83	1.27	32	Line 82-E	4-S	Y. Gravel	22.00 mg		12.1
2.63	2.21	.63	33	Line 82-E	4-S	W. Gravel	11.00 mg		7.7
	27.00	4.00	34	Line 82-E	4-S	Bedrock	69.00 mg		4.0

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							<i>Cut Th.</i>
	9.28	4.16	Sample 35	Line 60-W	1-S	Y. Gravel	72. mg 12.1
6.48	2.73	1.11	36	Line 60-W	1-S	W. Gravel	19. mg 11.0
	67.71	22.57	37	Line 60-W	1-S	Bedrock	390. mg 9.0
	2.26	.92	38	Line 60-w	2-S	Y. Gravel	16. mg 11.0
3.92	6.38	1.56	39	Line 60-W	2-S	W. Gravel	27. mg 6.6
	57.16	7.58	40	Line 60-W	2-S	Bedrock	131. mg 4.0
	4.93	3.01	41	Line 60-W	3-S	Y. Gravel	52. mg 16.5
5.01	11.34	2.31	42	Line 60-W	3-S	W. Gravel	40. mg 6.5
	19.53	4.34	43	Line 60-W	3-S	Bedrock	75. mg 6.0
	2.22	.81	44	Line 60-W	4-S	Y. Gravel	14. mg 9.9
24.2	7.95	1.62	45	Line 60-W	4-S	W. Gravel	28. mg 5.5
	3.12	1.04	46	Line 60-W	4-S	Bedrock	18. mg 9.0

GRANVILLE PROSPECTING 1919.

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 -- 0.05787¢ per Mgrm.

Sample	Line	Description	Value of Sample	Weight	Value per Cu Yd. (incl. Br.)
1	80-E-9-N	Y. Gravel	5.539	95.50 mg.	13.57
2	80-E-9-N	W. Gravel	15.00	258.75 mg.	46.02
3	80-E 9-N	Bedrock	42.25	730.00 mg.	190.12
4	79-E 10-N	Y. Gravel	0.46	8.00 mg.	1.61
5	79-E 10-N	W. Gravel	15.97	276.00 mg.	98.22
6	79-E 10-N	Bedrock	70.24	1213.75 mg.	474.12
7	79-E 11-N	Y. Gravel	2.50	43.25 mg.	7.67
8	79-E 11-N	Bedrock	342.18	5912.90 mg.	754.19
9	79-E 12-N	Yellow Gravel	4.05	70.00 mg.	11.04
10	79-E 12-N	Bedrock	187.48	3239.75 mg.	562.44
10-A		Nugget	19.68 20.69	357.50 mg.	

36.52
73.19
90.62
66.18

GRANVILLE PROSPECTING - 1919.

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- 0.05787¢ per Mgrm.

	Per Cu Yd.	Sample No.	Line	Material	Value of the gold	Wt. sample
636	3.78	1	Line 7-W - Shaft Base Line	Y. Gravel	1.85	32.00 mg.
	7.85	2		W. Gravel	5.44	94.00 mg.
	12.26	3		Bedrock	2.72	47.00 mg.
190	26.67	4	1-S	Y. Gravel	9.78	169.00 mg.
	269.91	5		W. Gravel	208.93	3610.40 mg.
	328.18	6		Bedrock	48.62	840.25 mg.
23.74	4.66	7	2-S	Y. Gravel	1.90	32.75 mg.
	9.94	8		W. Gravel	6.48	112.00 mg.
	435.57	9		Bedrock	145.19	2509.00 mg.
46.94	11.15	10	3-S	Y. Gravel	3.18	55.00 mg.
	5.67	11		W. Gravel	3.70	64.00 mg.
	993.53	12		Bedrock	147.19	2543.50 mg.

Sample No	Line No.	Shaft No.	Weight in Mgrms.
1	25-W	3-S	11.15 mg. ✓
2	25-W	3-S	66.25 mg. ✓
3	25-W	3-S	235.75 mg. ✓
4	25-W	4-S	112.00 mg.
5	25-W	4-S	119.75 mg.
6	25-W	4-S	325.20 mg.
7	25-W	5-S	36.80 mg.
8	25-W	5-S	77.85 mg.
9	25-W	5-S	60.70 mg.
10	25-W	6-S	4.50 mg.

23rd. January, 1919.

The Chairman,
The North West Corporation, Limited,
1, London Wall Buildings,
London, E. C.

Dear Sir,

The promise of the more immediate results from the holdings of the subsidiary companies of The North West Corporation, Limited, from the engineering point of view, may be summed up as follows:-

Upper Dominion Creek for 30,000 feet down from its Upper Discovery and for 4,000 feet above it, was the richest ground on the Indian River watershed, having already yielded at least \$8,000,000. It contains approximately 5,366,000 cubic yards of gold bearing material, of which 1,866,000 cubic yards, that of the worked pay channel, is estimated to contain \$1,133,953 or 60 cents per cubic yard. A statement showing the manner of arriving at this estimate is attached hereto. Should the remaining gravel, that on the right and left limits of the old workings, prove of value equal to that estimated, the gross gold content of the whole 5,366,000 cubic yards would be \$3,257,000.

This section has too little water for successful sluicing of the muck overburden, and it is too irregular in shape for the use of chain excavators. It must be dredged, the frozen parts being thawed with steam. The returns then with the above values and normal working costs, should be 25 cents per cubic yard, or \$1,341,000 as a working profit exclusive of general overhead expense. With one 7½ foot dredge it would require about seven seasons, the working profit returned thus being \$191,600 per year.

Granville Flat is a section of Dominion Creek, 19000 feet long. In my 1915 Report it was tentatively estimated to contain 23,355,000 cubic yards of gold bearing material. At that time it was thought that the old worked pay channel could be counted on to average 31 cents per cubic yard. Since then

40 prospecting pits have been put down on the upper, or eastern, end of the Company property and while their results indicate that the worked portions may not contain that average, a run of good values was shown to be on the left limit of the worked zone, averaging over 400 feet in width with values of 57 cents per cubic yard for the 1200 feet of length covered by this work. This was unexpected and will return greater profit per cubic yard than that expected from the old worked area. A line of pits across the upper end of the run of values on the right limit of the old worked area showed a width of 400 feet averaging 58 cents per cubic yard. Thus at the upper end of this portion of the Company holdings is a combined width of 800 feet averaging 57 cents per cubic yard, a considerably higher result than was expected.

The A.N.C. Treadgold prospecting results, obtained before my time, indicate a value of 29 cents per cubic yard for a considerable width at the lower end of Granville Flat, at the mouth of Sulphur Creek: and on the right side opposite Creek Claim No. 253, for a width of 450 feet, Mr. Treadgold's work indicates an average of \$1.13 per cubic yard.

By accepting these Treadgold results as accurate, it is reasonable to expect that further prospecting will show desirable values for the whole length of the Company's 15,000 feet of holdings.

The Indian River interests cover a territory 20 miles long, all more or less gold bearing. Indian River runs the length of it and it is expected that the river channel, and to some extents the adjoining gravels, is thawed ground and therefore suitable for dredging.

No Company work has been done on this section, but the local miners claim that there are runs of good values for some distance below the mouth of Eureka Creek and below Quartz Creek.

RECOMMENDATIONS FOR 1919.

Prospecting should be undertaken at Upper Dominion to determine how far down stream a dredge may profitably be installed and to check up the values estimated for the dredging area of this section.

Satisfactory results being obtained from this work, a dredge of 7½ feet bucket capacity, with a steam thawing plant, should be installed here.

At Granville Flat the work of overburden removal should be continued, with sufficient prospecting work ahead to insure that the stripping is confined to commercially profitable ground.

Enough prospecting work should be done on Indian River to determine if there is a profitable dredging area there and if such is proven, preparations should be made for equipping it with a dredge suitable for the work.

At Middle Dominion Creek, where it is proposed to try the Chain Excavators next year, enough prospecting should be carried out to determine where the values are in this ground and to serve as a guide in the proposed experimental work.

Yours faithfully,

Mining Engineer.

A Statement showing the method used in estimating the value remaining in the worked pay streak of Upper Dominion Creek. Quoted from Frederick P. Burrall's report of November 10th. 1918.

To be attached to a letter dated 23rd. January, 1919, from Frederick P. Burrall to the Chairman of The North West Corporation, Limited.

Note: This address was handed to Mr. Buckley in the 28th Jan. accompanied by 5.000. from APO dated 27th January 1919

There is no record of the output of these claims (Upper Dominion Creek) but from the statements of various former operators, it does not seem unreasonable to estimate that the creek gravels of this group have produced \$8,000,000.

The pay streak averaged about 6 feet thick which with $1\frac{1}{2}$ feet of bedrock taken up, amounts to $7\frac{1}{2}$ feet of worked depths, or $2\frac{1}{2}$ yards. The pay streak then, with an area of 311,100 square yards and the above worked depth contained 777,000 cubic yards. Of this, 90%, or 699,300 cubic yards were extracted with an estimated yield of \$8,000,000, or \$11.44 per cubic yard. Adding to this the \$0.31 left in the tailings gives \$11.75 per cubic yard as the original pay streak value. It is assumed that 10% of the pay streak, 77,700 cubic yards, were not removed. This, at \$11.75 per cubic yard equals \$912,975, the amount assumed to still be in the virgin part of the pay streak. The material that was washed was sluiced back on the ground being 699,300 cubic yards at \$0.316 per cubic yard according to the Gardner, Thorne and

Treadgold results, amounting to \$220,978. Adding this to the value given for the virginsground, gives \$1,133,953, as the present total gold content of the worked pay streak. This has an average depth of 18 feet, made up of virgin gravel and bedrock, tailings, waste and muck, amounting to a total of 1,366,000 cubic yards, which, with the above value, averages \$0.60 per cubic yard.

The value of the remaining dredgeable ground in this section, amounting to 3,500,000 cubic yards, is yet to be determined.



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