

THE YUKON CONSOLIDATED GOLD CORPORATION LIMITEDB E A R C R E E K

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  - c Summary Gravel Reserves and Value
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## THE YUKON CONSOLIDATED GOLD CORPORATION LIMITED

## BEAR CREEK DATA

From 1916 to 1918 inclusive, The Yukon Gold Company operated a dredge from the Mouth of Bear Creek to Claim No. 7 Below Discovery. Operations were discontinued at this point due to the fact that the Company was unable to acquire the remaining dredgeable ground on reasonable terms. The dredge was partially dismantled and some of the machinery such as winches etc. removed and hauled to the Bear Creek Camp. The dredge could possibly be placed in condition to operate for a comparatively small expenditure.

Results obtained from the Yukon Gold operations are as follows:-

<u>YEAR</u>	<u>CU.YDS.DREDGED</u>	<u>GROSS RECOVERY</u>	<u>RECOVERY PER CU.YD.</u>
1916	242,158	107,363.18	44.3 cents.
1917	421,218	175,807.51	41.7 cents.
1918	461,160	119,277.22	25.9 cents.
<u>TOTALS</u>	<u>1,124,536</u>	<u>402,447.81</u>	<u>35.8 cents.</u>

The proposed dredgeable area remaining on Bear Creek extends from No. 7 Below Discovery to No. 2 Above. This area contains 13 claims. F.L.Morris estimates that an area of 878,000 square feet is suitable for dredging. This area contains approximately 800,000 Cu. Yds., about 50% of which is probably muck overburden which can be removed, leaving 400,000 Cu. Yds. to be handled with the dredge. Morris estimates the value of this block of ground to be \$461,000.00 or 56.56 cents per Cu. Yd. for the total depth. We are of the opinion that this estimate is high. The recovery of 35.8 cents per Cu. Yd. made by the Yukon Gold Company is more in line with what may be expected. This average recovery of 35.8 cents per Cu. Yd. was for total depth therefore if the overburden is removed from the remaining dredgeable area, the average value per Cu. Yd. which will be dredged will be approximately 70¢. The estimated gross value is \$280,000.00. This ground can probably be mined for 30¢ per Cu. Yd. or \$120,000.00 leaving a net operating profit of \$160,000.00.

In view of the above mentioned probable profit this property merits further investigation and a definite decision made before the dredge is dismantled and moved.

LENGTH OF BEAR CREEK

Claim 19 Below Discovery to 2 Above -- 11,586 feet.

GRADE

The average grade of Bear Creek is approximately 3%. On this basis the difference in elevation between the lower end of 19 Below and the upper end 2 Above is approximately 350 feet. The contour map indicates a difference in elevation of 300 feet, as follows:

Elevation upper end 2 Above	1,600 feet
Elevation lower end 19 Below	1,300 feet
<u>DIFFERENCE</u>	<u>300 feet</u>

BEAR CREEK DATA CONTINUEDWATER SUPPLY

There is very little or no water available during the summer months for stripping operations on the upper portion of Bear Creek. Water could be pumped from the Klondike River into the Klondike Syphon and conveyed in a ditch along the Left Limit of Bear Creek to a point above the upper end of 2 Above.

POWER

Assuming 250 Miners Inches will be required for stripping and thawing purposes, the power required to elevate water will be:

$$\begin{array}{r}
 425 \text{ feet total head required} \\
 250 \text{ Miners Inches --- } 375 \text{ Fu.Ft. per Min.} \\
 \underline{375 \times 62.5 \times 425} \quad \left. \vphantom{\begin{array}{l} 425 \\ 250 \end{array}} \right\} \text{--- } 302 \text{ H.P.} \\
 33,000
 \end{array}$$

Allowing for pump and motor efficiency we estimate that 400 H.P. or 300 K.W. will be required to pump the necessary water for the proposed Bear Creek operations.

DITCH

The length of the ditch from the Klondike Syphon to Claim 2 Above is approximately 13,000 feet.

Investigation of proposed ditch location would be necessary.

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## THE YUKON CONSOLIDATED GOLD CORPORATION LIMITED

## GENERAL NOTES ON BEAR CREEK

BY

F.L. MORRIS, OCTOBER 1907, REPORT FOR YUKON GOLD COMPANY

"The history of the development of Bear Creek is quite different from that of other creeks, partly because of the character of the ground, and partly because of insufficient water supply. The creek was very extensively worked from 1898 until about 1902. The bulk of the \$1,500,000 with which it is credited was taken out during that time. Practically all of the work was drifting with wood fires, and much of it was very crudely done. A large portion of the work was done by laymen, who generally "gophered" out the best of the pay with no regard for a systematic and complete working of the entire claim. Also the ground was of a character difficult to work without a great deal of waste as it caved so badly that only a limited area could be worked from one shaft, and numerous pillars had to be left between the different workings. Work was confined to the frozen portions of the Valley, no attempt was made to handle thawed ground beneath the Creek bed, which often covered the best paystreak.

Up to 1902 the development of Bear Creek was similar to other creeks in the district, but unlike the others, it stopped at this point. Very few boilers have been used on the Creek and there has never been enough water to undertake extensive open cut work, even in the shallower parts of the Creek. Consequently the creek stands as it was left several years ago, with only the main paystreak worked, and that not thoroughly; also containing much ground now considered good, which could not be worked at a profit in the early years. Definite data, however, as to amount of ground worked, and values recovered, are almost entirely lacking, as nearly all of the men who worked on the creek have left the country. On the portion under consideration, only one claim was being worked during the season of 1907 (12-A Below Discovery), a small open cut worked by two men. The estimates given are, therefore, merely approximate, being based only upon a general idea of values recovered, location of ground, and solid ground remaining, obtained from making a survey of the creek, and talking with the few people who could give reliable information.

The areas of claims are those obtained by actual survey, and are practically correct. The areas of probable value are only approximate, as no prospecting work was done to determine the limits of the pay. It is doubtful if any ground worth less than \$1.50 per square foot could be worked at a profit during the time when most of the Bear Creek work was done, and much of the ground worked carried from \$2.00 to \$5.00 per square foot of bedrock. On the lower end of the creek there was some extremely rich ground, streaks where \$100.00 to the pan was not uncommon. As a general conclusion, the estimate of total production seems rather high than low."

WORKING CONDITIONS

"The grade of this creek is almost 3%, or about three times that of Bonanza Creek. The working of this ground will be greatly facilitated by the steep grade, as all the muck and overburden can be sluiced off without creating an artificial grade. The steep grade is also a great benefit to the gravel sluicing, as the artificial grade which it is necessary to produce will be greatly reduced. The water supply is not

## BEAR CREEK CONTINUED

adequate for mining only on a small scale, excepting a short time in the spring and late fall. The ditch system of the Yukon Gold Company is conveniently situated to furnish the water supply necessary.

NO. 7 BELOW

Drifting has been done on both sides of the creek, except on the lower Left Limit, where the creek has a width of 100 feet or more.

A 30 Ft. strip along creek, 15,000 Sq.ft.	@ \$1.25 per sq.ft.	18,800.00
61,000 Sq.Ft. on Limits	@ .40 "	24,400.00
<u>TOTAL</u> 76,000 Sq.Ft.	@ .5694"	43,200.00
Working 76,000 Sq.Ft. 70,000 C.Yds	@ .30	21,000.00
<u>NET. PROFIT</u>		22,200.00

NO. 6 BELOW

The creek hugs the Left Limit in a narrow channel. The main work was done on a strip 50 to 60 feet wide, adjoining the right bank of the creek, leaving the creek solid, and also a strip nearly 100 feet wide along the Right Limit; too low grade to work in the early years.

Probable area of value, 79,000 Sq.Ft.	@ 50 cents	39,500.00
Working 79,000 Sq.Ft. 25 Ft. deep, 73,000 Cu.Yds	@ 30¢	22,000.00
<u>NET PROFIT</u>		17,500.00

NO. 5 BELOW

The creek channel is narrow, but swings out towards the center of the valley, allowing work to be done on both sides.

25 Ft. strip along creek, 12,500 Sq.Ft.	@ \$1.00	12,500.00
63,500 Sq.Ft. on Limits	@ .50	31,700.00
<u>TOTAL</u> 76,000 Sq.Ft.	@ .582	44,200.00
Working 76,000 Sq.Ft. 25' deep, 70,000 Cu.Yds.	@ 30¢	21,000.00
<u>NET PROFIT</u>		23,200.00

NO. 4 AND NO. 4-A BELOW

The creek hugs the Left Limit, leaving most of the main strip accessible for drifting:

81,000 Sq.Ft.	@ 50¢	\$40,500.00
Working 81,000 Sq.Ft. 25' deep. 75,000 Cu.Yds.	@ 30¢	22,500.00
<u>NET PROFIT</u>		18,000.00

## BEAR CREEK CONTINUED

NO. 3 AND NO. 3-A BELOW

The creek swings out into the center again, and considerable work has been done on both sides. Two or three men are said to have worked continuously from 1898 to 1905, using wood fires only, so the claim must have carried good values over a considerable width.

30 Ft. strip along creek, 16,500 Sq.Ft.	@ 1.00	\$16,500.00
55,500 Sq.Ft. on Limits	@ .50	27,800.00
<u>TOTAL</u>		<u>44,300.00</u>
Working 72,000 Sq.Ft. 25' deep, 67,000 Cu.Yds.	@ .30	20,000.00
<u>NET PROFIT</u>		<u>24,300.00</u>

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NO. 2 BELOW

Work has been done along almost all of Right Limit, but only on upper portion of Left Limit. Laymen worked the claim for several years.

30 Ft. strip, Creek, 15,800 Sq.Ft.	@ 1.25	19,800.00
Center and Limits, 47,200 Sq.Ft.	@ .50	23,600.00
<u>TOTAL</u>		<u>43,400.00</u>
Working 63,000 Sq.Ft. 23' deep, 54,000 Cu.Yds.	@ .30	16,200.00
<u>NET PROFIT</u>		<u>27,200.00</u>

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NO. 1 AND NO. 1-A BELOW

Two open cuts have been worked, one about 25' wide and 300' long on No. 1-A and the lower half of No. 1, and a small one in the creek bottom on the upper Right Limit. No record of the longer cut is available. The smaller one produced about 60¢ per sq. ft. The valley widens considerably on the upper end of No. 1 Below, and the pay seems to have been widely distributed. The best streak was about 100 feet wide, near the center. The creek hugs the Right Limit, leaving the main body of the upper half frozen, and therefore available for drifting. On the Right Limit near the center, a small drift yielded better than \$1.00 per square foot. In the creek on the upper Right Limit, the depth to bedrock is only 6 feet, but towards the Left Limit the ground rises, due to the flow from a pup coming in on the lower Left Limit of Discovery.

124,000 Sq.Ft. @ 40 cents		49,600.00
Working 124,000 Sq. Ft. 25' deep, 115,000 Cu.Yds.	@ 30¢	34,500.00
<u>NET PROFIT</u>		<u>15,100.00</u>

BEAR CREEK CONTINUED

DISCOVERY

The creek hugs the right limit, leaving the high ground of the center and left limit frozen. A strip 190' or more wide through the center has been extensively drifted. The pup which enters at the lower right limit carries gold, but judging from the location of the work, the pup on the lower left limit is not good.

119,000 Sq. Ft. @ 40 cents	\$47,600.00
Working 119,000 Sq. Ft., 25' deep, 110,000 cu.yds. @ 30¢	<u>53,000.00</u>
<u>NET PROFIT</u>	14,600.00

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NO. 1 ABOVE

The creek swings from the right limit across to the left limit, and then back to the right, cutting across the main pay-streak, which is 50 to 60 feet wide, and carries at least \$2.00 per Sq. Ft. About \$21,000.00 was taken out from three drifts on the main streak, probably from 10 to 20,000 Sq. Ft. The remainder of the work consists of shafts sunk for representation. A 50' strip throughout the claim has an area of 22,000 Sq. Ft. About half of this remains solid, and should carry \$2.00 per Sq. Ft. as the entire streak should average \$1.00.

22,000 Sq. Ft. @ 1.00	\$22,000.00
59,000 Sq. Ft. on Limits @ 50¢	29,500.00
<u>TOTAL 81,000 Sq. Ft. @ 63.5¢</u>	<u>51,500.00</u>
Working 81,000 Sq. Ft. 25' deep, 75,000 Cu.Yds. @ 30¢	22,500.00
<u>NET PROFIT</u>	29,000.00

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NO. 2 ABOVE

As on No. 1 Above, the creek winds from limit to limit, cutting the main paystreak. About \$16,000.00 has been taken from the claim, probably 8,000 to 10,000 Sq. Ft.

Area of 50' streak, 24,000 Sq. Ft. @ 1.00	24,000.00
Right and Left Limits 83,000 Sq. Ft. @ 40¢	33,200.00
<u>TOTAL 107,000 Sq. Ft. @ 53.5¢</u>	<u>57,200.00</u>
Working 107,000 Sq. Ft. 25' deep, 100,000 Cu. Yds. @ 30¢	30,000.00
<u>NET PROFIT</u>	27,200.00

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## THE YUKON CONSOLIDATED GOLD CORPORATION LTD.

## BEAR CREEK -- SUMMARY

COMPILED FROM F.L.MORRIS REPORT, OCTOBER 1907-CLAIMS 7 BEL. to 2 AB. INCLUSIVE

CLAIM NO.	SQUARE FEET PAY	EST. VALUE PER SQ. FT.	TOTAL VALUE	GROSS VALUE EST.	EST. DEPTH FEET	EST. CUBIC YARDS	EST VALUE PER CUYD. CENTS	LENGTH OF CLAIM ON BASE LINE
7 Bel.	15,000 61,000	1.25 .40	18,800.00 24,400.00	43,200.00	25	76,000	56.84	498
6 Bel.	79,000	.50	39,500.00	39,500.00	25	73,000	54.11	577.8
5 Bel.	12,500 63,500	1.00 .50	12,500.00 31,700.00	44,200.00	25	70,000	63.14	453.6
4 Bel. &) 4-A Bel.)	81,000	.50	40,500.00	40,500.00	25	75,000	54.00	453.6
3 Bel. &) 3-A Bel.)	16,500 55,500	1.00 .50	16,500.00 27,800.00	44,300.00	25	67,000	64.62	585.3
2 Bel.	15,800 47,200	1.25 .50	19,800.00 23,600.00	43,400.00	23	54,000	80.37	473.0
1 Bel. &) 1-A Bel.)	124,000	.40	49,600.00	49,600.00	25	115,000	43.13	553.0
Disc.	119,000	.40	47,600.00	47,600.00	25	110,000	43.27	470.6
1 Ab.	22,000 59,000	1.00 .50	22,000.00 29,500.00	51,500.00	25	75,000	68.66	399.8
Ab.	24,000 83,000	1.00 .40	24,000.00 33,200.00	57,200.00	25	100,000	57.20	399.8
13	878,000		461,000.00	461,000.00		815,000		
<u>AVERAGE</u>		.525					56.56	



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