

# The Yukon Consolidated Gold Corporation, Limited

DAWSON, Y. T.

CANADA

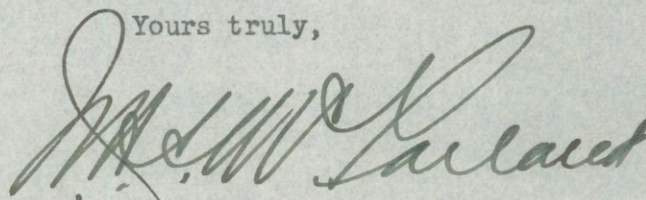
August 30th, 1945.

C. E. McLeod, Esq.,  
Secretary-Treasurer,  
The Yukon Consolidated Gold Corporation, Ltd.,  
1919 Marine Building,  
Vancouver, B. C.

Dear Mr. McLeod:

I am enclosing six copies of a report on  
the Mitchell Group in the Dawson Mining District, by  
MacLeod White. This report summarizes the work which  
has been done to date and lists the samples which have  
been taken.

Yours truly,

A handwritten signature in dark ink, appearing to read 'W. H. S. McFarland', written in a cursive style.

W. H. S. McFarland,  
General Manager.

WHSMcF:B  
Encs.

Dawson, Y. T.  
August 28th, 1945.

REPORT ON MITCHELL GROUP  
DAWSON MINING DISTRICT  
YUKON TERRITORY

1. SUMMARY AND CONCLUSION: The work done so far on the Mitchell Group indicates the possibility of a narrow quartz vein either continuous or a series of lenses for a distance of over half a mile. Gold values being found in the schist adjacent to the quartz, it may be that a mining width of commercial ore will be found irrespective of the width of quartz. The values found by milling samples of half a ton or more are encouraging but are not high enough to allow for small discontinuous ore bodies.

It would seem worth while making a small expenditure in clearing out the shaft and drifts for sampling and in further stripping to expose other sections of the vein.

An operation on the Mitchell would fit in well with any on the Lone Star.

2. PROPERTY AND OWNERSHIP: The present Mitchell Group consists of nine mineral claims: Klondike Bob, No. 4253; Lorraine, No. 4254; Anita, No. 4293; Solomon, No. 4294; Chappie, No. 4299; Monte Cristo, No. 4300; Goldie, No. 4311; Eldorado, No. 4326 and Lorita, No. 4331; owned by H. G. Henderson and C. W. Craig, staked in 1943, 1944 and 1945. A number of other claims have been staked in the vicinity by various parties.

3. LOCATION: The claims are located on the ridge between Gold Bottom Creek and the Right Fork of Hunker Creek within half a mile of King Solomon's

Done. By road, 26 miles from Dawson, Y. T.; via Klondike River valley, Hunker Creek and Hunker Summit.

4. HISTORY: The original claims were staked in the early nineteen hundreds and considerable work done in stripping the vein and sinking a shaft. The claims were allowed to lapse and as far as is known, no further work was done until Henderson and Craig became interested in 1943.

5. PRODUCTION: There has been no production though it is understood that a bulk sample was shipped out by the original owners.

6. DEVELOPMENT: Besides considerable trenching, the only development is an 84 foot shaft now filled with ice from which there is reported to be some drifting done. The old trenches have mostly filled in but the ones put in by Henderson and Craig in 1944 are shown on the map.

7. GEOLOGY AND ORE: The country rock is sericite schist striking N.E. and dipping 20 to 40 degrees N.W. No dikes were seen on the property. Several outcrops of quartz occur along the ridge. The most pronounced strikes approximately N. 6° W. dips 65° to the east and would appear to be 2200 feet long though not proven continuous. Most of the work has been done on this vein. Three other outcrops striking 15° E. are evident but what relation they may have to the other vein is not known. The veins vary in width from a few inches to four feet.

Pyrite occurs in both the quartz and schist as fine grains and large crystals. Galena is also sometimes seen. Gold is the valuable mineral which is seen free and seems to be associated with the pyrite. The gold is not all free so probably occurs in the pyrite as well.

Many grab samples have been taken of the old dumps and outcrops which show a wide variation in values but are not related to any width. The nine chip samples taken by the writer are accurate and consistently low. The mill runs done by Mr. Henderson should be the best indication of what values can be expected. The samples taken from the shaft dump are from unknown widths but probably represent not over seven feet including quartz and schist. The third, fourth and sixth tests are from known minable widths. The fifth test took in too much schist for good results. Averaging the values found from the shaft and open cuts No. 1 and No. 2 gives \$14.75 for a width of about 5 feet and a length of just over 100 feet.

8. MINING AND ECONOMIC CONSIDERATIONS: The exact mining method cannot be decided on at this time but it probably would be some form of over hand filled stope. Though the schist probably will give some trouble from caving, it may prove strong enough at depth to stand with only the aid of stulls. Access at depth, over 1000 feet below outcrop, can be obtained by tunnel either from the Right Fork of Hunker Creek or Gold Bottom Creek. Little water is available on either creek, necessitating hauling the ore eighteen miles to the Klondike River for treatment.

Due to the probable narrow ore body, climatic conditions and high freight rates, costs would be relatively high, necessitating a minimum value of certainly \$10.00 per ton.

*MarLeod White*

Dawson, Y. T.  
28th August, 1945.

MITCHELL GROUP

SAMPLES

Gold Value at \$35.00 per Ounce

Grab Samples by H.G. Henderson, August, 1944

|    | <u>Location</u> | <u>Description</u>    | <u>Gold Oz. per Ton</u> |
|----|-----------------|-----------------------|-------------------------|
| 63 | Dump at Shaft   | Dark Soft Schist      | 73.44                   |
| 65 | do              | Schist                | 10.08                   |
| 66 | do              | Green schist          | 12.89                   |
| 74 | do              | Schist Rusty Quartz   | 14.04                   |
| 75 | do              | do                    | 17.72                   |
| 76 | do              | Schist Green & Pyrite | 12.66                   |
| 77 | do              | do                    | 3.68                    |
| 78 | do              | Rose Quartz           | 20.28                   |
| 79 | do              | Schist                | 3.68                    |
| 80 | do              | Schist Some cube iron | 5.41                    |
| 86 | do              | Schist Rusty Brown    | 4.51                    |
| 87 | do              | Quartz White Iron     | 12.42                   |
| 88 | do              | Quartz Sugary         | 3.21                    |
| 85 | do              | Quartz & Green Schist | 7.36                    |
| 92 | do              | Quartz Rusty No Iron  | 12.99                   |
| 95 | do              | Quartz Glassy No Iron | 1.90                    |
| 96 | do              | Schist Pyrite         | 21.40                   |
| 97 | do              | Quartz Glassy         | Trace                   |

|     |                            |                            |        |
|-----|----------------------------|----------------------------|--------|
| 100 | Dump at Shaft              | Schist Green Heavy Pyrite  | 14.72  |
| 101 | do                         | Schist Green Medium Pyrite | 14.72  |
| 102 | do                         | Schist Green Little Pyrite | .67    |
| 103 | do                         | Quartz similar to 74 & 97  | 19.38  |
| 104 | do                         | Schist Fine Grained Hard   | 8.63   |
| 105 | do                         | Quartz Stringer Center     | 2.02   |
| 106 | do                         | Schist Heavy Pyrite Brown  | 8.48   |
| 107 | do                         | Schist Quartz              | 36.57  |
| 108 | do                         | Schist Blue Hard           | 2.02   |
| 109 | do                         | Schist No Iron Soft        | Trace  |
| 110 | do                         | Schist Heavy Cube Iron     | 22.51  |
| 111 | do                         | Quartz                     | 7.81   |
| 112 | do                         | Quartz Hard Clear          | 4.59   |
| 84  | do                         | Concentrated 10-1          | 282.25 |
| 98  | do                         | Concentrated 6-1           | 34.99  |
| 99  | do                         | Concentrate Tailing        | 1.07   |
| 64  | Opposite Cabin No. 11 O.C. | Quartz Fine Grained        | 7.27   |
| 67  | Opposite Cabin No. 11 O.C. | Quartz White               | Trace  |
| 68  | Opposite Cabin No. 11 O.C. | Quartz Rose                | 3.68   |

Mill Runs

No. 1. Schist from Dump at Shaft

|                     |               |         |
|---------------------|---------------|---------|
| Recovered free gold |               | \$10.00 |
| 50# Concentrates    | Assay per ton | 63.35   |
| 300# Middlings      | do            | 7.35    |

|                |               |        |
|----------------|---------------|--------|
| 1650# Tailings | Assay per ton | \$3.50 |
| Slime Sample   | do            | 6.08   |

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|       |                                |         |
|-------|--------------------------------|---------|
| 2000# | Calculated value of ton sample | \$15.57 |
|-------|--------------------------------|---------|

No. 2. Quartz from Dump at Shaft

|                     |  |         |
|---------------------|--|---------|
| Recovered free gold |  | \$22.00 |
|---------------------|--|---------|

|                  |               |        |
|------------------|---------------|--------|
| 25# Concentrates | Assay per ton | 104.30 |
| 325# Middlings   | do            | 12.60  |
| 1600# Tailings   | do            | 2.45   |

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|       |                                    |         |
|-------|------------------------------------|---------|
| 1950# | Calculated value of sample per ton | \$28.50 |
|-------|------------------------------------|---------|

No. 3. Taken from No. 1 Cut - 1.2' Qtz - 3.8' Schist - Total 5'

|                     |  |        |
|---------------------|--|--------|
| Recovered free gold |  | \$2.56 |
|---------------------|--|--------|

|                   |               |      |
|-------------------|---------------|------|
| 107# Concentrates | Assay per ton | 2.80 |
| 893# Tailings     | do            | 0.70 |

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|       |                                    |        |
|-------|------------------------------------|--------|
| 1000# | Calculated value of sample per ton | \$6.04 |
|-------|------------------------------------|--------|

No. 4. Taken from No. 2 Cut - 1.2' Qtz. - 3.8' Schist - Total 5'

|                     |  |        |
|---------------------|--|--------|
| Recovered free gold |  | \$2.31 |
|---------------------|--|--------|

|                  |               |      |
|------------------|---------------|------|
| 39# Concentrates | Assay per ton | 5.60 |
| 125# Middlings   | do            | 1.40 |
| 836# Tailings    | do            | 1.40 |

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|       |                                    |        |
|-------|------------------------------------|--------|
| 1000# | Calculated value of sample per ton | \$6.18 |
|-------|------------------------------------|--------|

No. 5. Taken from No. 9 Cut - 2.5' Qtz. - 12.5 Schist - Total 15'

|                     |  |        |
|---------------------|--|--------|
| Recovered free gold |  | \$0.50 |
|---------------------|--|--------|

|                   |               |        |
|-------------------|---------------|--------|
| 176# Concentrates | Assay per ton | \$3.82 |
| 1124# Tailings    | do            | 0.75   |

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|       |                                    |        |
|-------|------------------------------------|--------|
| 1300# | Calculated value of sample per ton | \$1.09 |
|-------|------------------------------------|--------|

No. 6. Taken from No. 11 Cut - 4' wide - Quartz

Recovered free gold

\$5.25

2000# Tailings (No concentrates taken)  
not sampled as yet.

Chip Samples Taken by MacLeod White, September, 1944

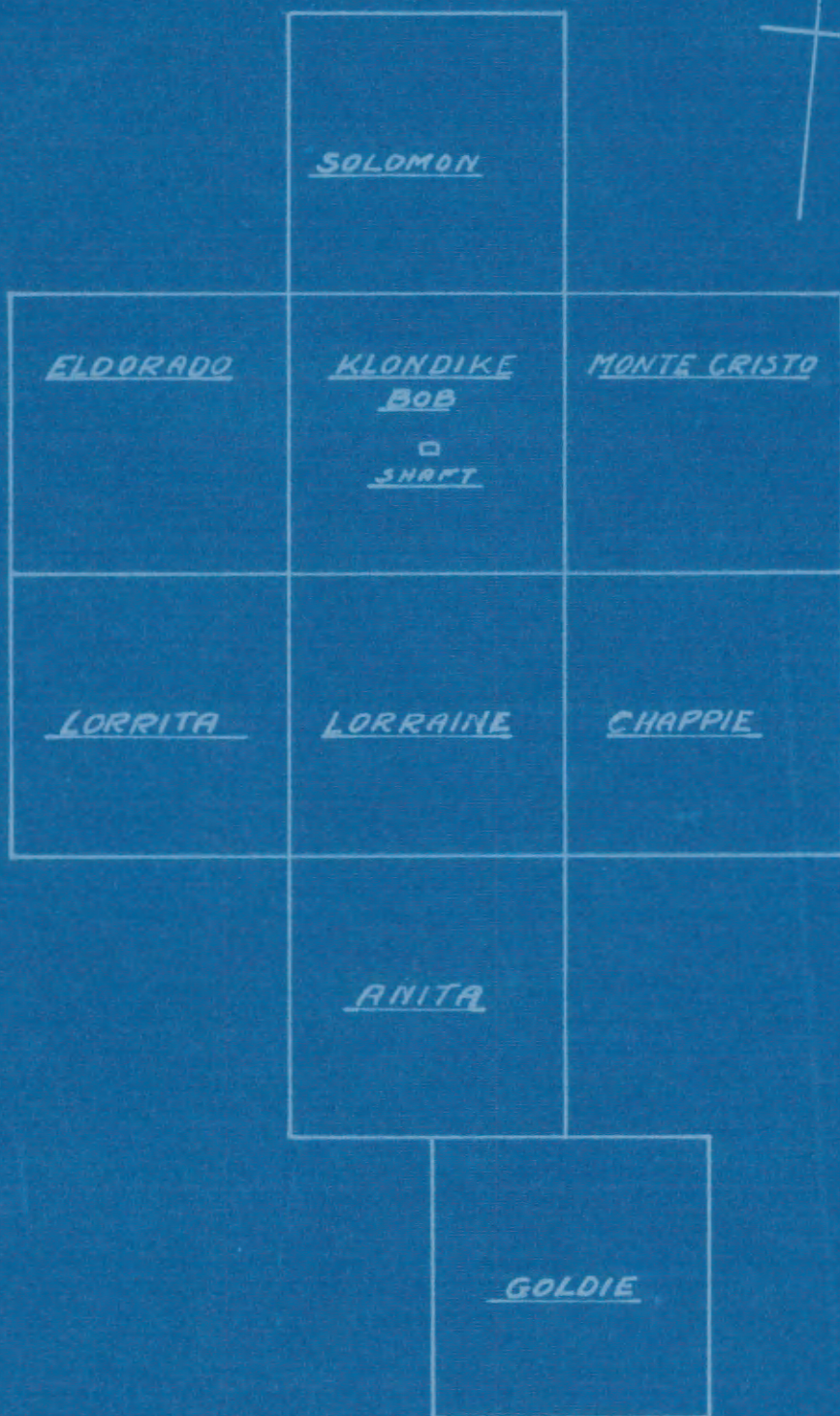
|    |                                |                                       |     |        |
|----|--------------------------------|---------------------------------------|-----|--------|
| 1. | No. 5 Cut                      | Quartz some Pyrite                    | 6"  | \$1.05 |
| 2. | No. 2 Cut                      | Quartz                                | 13" | 1.40   |
| 3. | No. 2 Cut                      | Schist on either side<br>of Quartz    | 12" | 1.40   |
| 4. | No. 4 Cut                      | Quartz                                | 5"  | 1.05   |
| 5. | No. 8 Cut                      | Quartz                                | 20" | 0.70   |
| 6. | No. 9 Cut                      | Quartz                                | 15" | 0.70   |
| 7. | No. 9 Cut                      | Schist showing big<br>pyrite crystals |     | 0.70   |
| 8. | No. 10 Cut                     | Qtz. some pyrite                      | 26" | 1.05   |
| 9. | By main road<br>south of above | Quartz                                | 30" | 1.05   |

Samples sent Bureau of Mines, Ottawa

100# Quartz \$21.00 per ton

100# Schist 10.50 do

LEFT FORK GOLD BOTTOM CREEK



RIGHT FORK HUNKER CREEK

KING SOLOMON  
DOME

SKETCH SHOWING MITCHELL GROUP



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TITLE/TITRE \_\_\_\_\_  
RG \_\_\_\_\_ MG <sup>28</sup> \_\_\_\_\_ R- \_\_\_\_\_ SERIES/SÉRIE <sup>III-43</sup> \_\_\_\_\_  
ACCESSION \_\_\_\_\_ VOL <sup>35</sup> \_\_\_\_\_ PAGE(S) <sup>9</sup> \_\_\_\_\_  
BOX/BOÎTE \_\_\_\_\_ REEL/BOBINE \_\_\_\_\_  
FILE/DOSSIER Base Metals Exploration. Mitchell Group, Yukon (1945-47)  
DATE JULY 2013