

YEIP 10-079

**2011 PLACER EXPLORATION PROGRAM AT CANYON CREEK PLACER PROPERTY**

**YEIP  
2010  
-079**

**DAWSON MINING DISTRICT, YUKON TERRITORY**

**for**

**TIM COLES ENTERPRISES LTD.**

**2011 YUKON MINING INCENTIVES PROGRAM – FINAL REPORT**

Report prepared by

William LeBarge, Geoplacer Exploration Ltd.  
with contributions from Anastasiya Matlashevskaya

Location: 63° 49' 55" N 139° 2' 45" W  
NTS: 1150/14  
Mining District: Dawson  
Work Performed: March 2011 to July 2011  
Date: July 31, 2011

## EXECUTIVE SUMMARY

Twenty-seven placer claims owned and operated by Tim Coles of Tim Coles Enterprises Ltd. are located on Canyon Creek, 52 km by road south of Dawson City. This report describes the results of a work program of auger drilling, bulk sampling and geological investigation which was conducted between March 30, 2011 and July 27, 2011 with a total of 159 working man-days.

A total of thirty-six 8-inch auger holes were located, drilled and sampled between March 29 and April 8, 2011. Following this, a bulk sampling program was initiated. Stripping and access construction in preparation for the bulk sampling program was conducted between April 10, 2011 and early June. The processing of the bulk sample took place between June 15 and July 5, 2011 and consisted of 100 hours of washing potential pay material.

Between July 26 and 27, 2011, William LeBarge of Geoplacer Exploration Ltd conducted a site visit to the mine to map out drill hole locations, bulk sample pits and conduct overall geological examinations of the property.

Placer gold values were recovered during the bulk sampling program which were not indicated by the auger drilling from either previous or the current year's testing. This is due to the coarse nature of the gold, the narrow character of the paystreak in the valley and the overall difficulty in recovering samples while drilling in frozen and partially-thawed gulch valley settings.

It is recommended that in future evaluations of placer gold deposits of this type that even relatively closely-spaced drilling of several metres must be followed by bulk sampling and test mining in order to determine placer gold values.

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## INTRODUCTION

This report describes auger drilling and bulk sampling conducted on the Canyon Creek claims operated by Tim Coles of Tim Coles Enterprises Ltd. in the Dawson Mining District, Yukon Territory, NTS Map Sheet 1150/14. Exploration for placer gold deposits on this property in the years from 2009 to 2011 was partially supported by grants obtained by Tim Coles under the Yukon Mining Incentives Program, Government of Yukon.

## LOCATION AND ACCESS

The Canyon Creek Property is a tributary of Little Blanche Creek, which is a right limit tributary of Quartz Creek. It lies approximately 30 km by air south of Dawson City in the Dawson Mining District (Figure 1). Access is by Government maintained road from Dawson City to Hunker Creek turnoff (14 km), then along Hunker Creek road to Hunker summit (26 km) and from there to the turnoff at Quartz Creek road (7 km) and finally from the Quartz Creek turnoff to the mining road turnoff, a distance of 4 km.

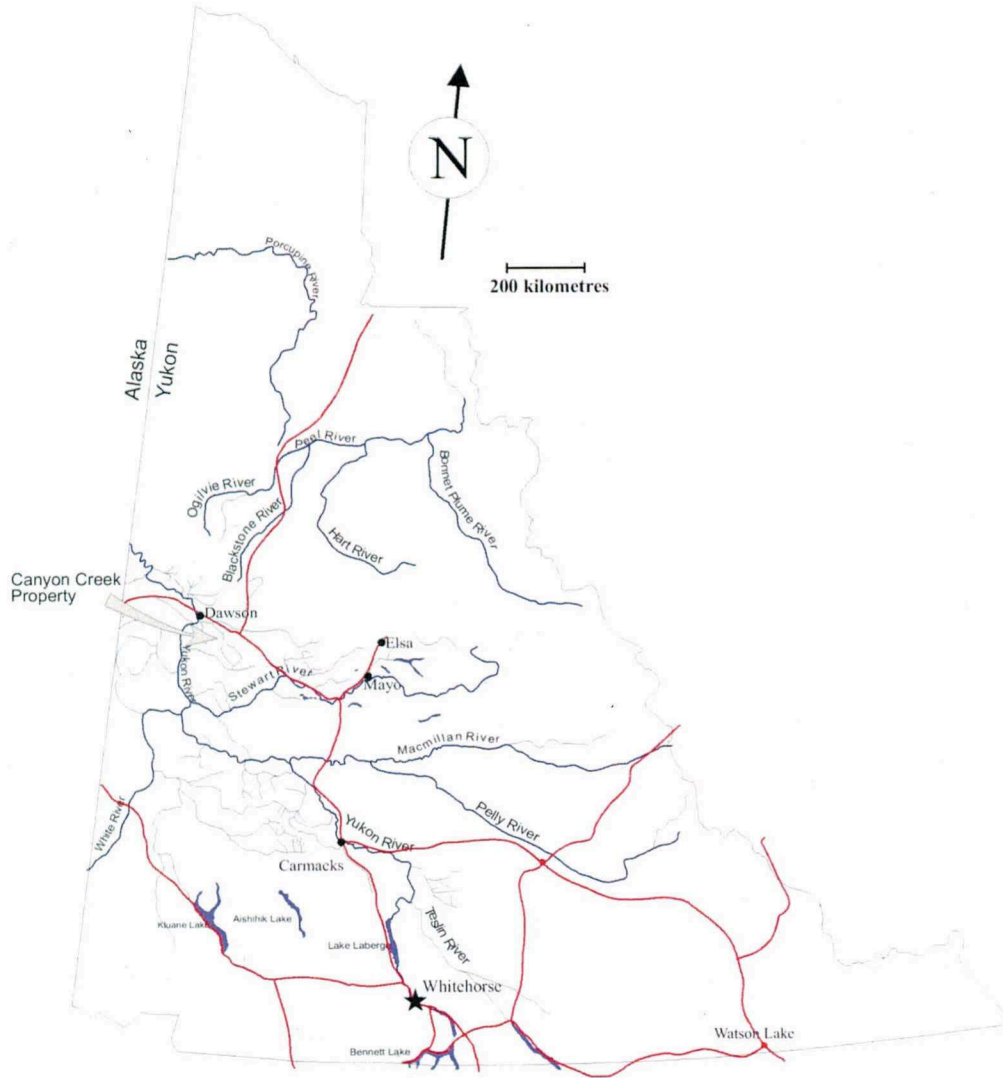


Figure 1- Location of Canyon Creek, Yukon

## PROPERTY DESCRIPTION

The mining operation is located approximately 2 kilometers from the mouth of Canyon Creek. Water license number PM07-572 is held on the claims by Tim Coles Enterprises Ltd. in active status with an expiry date of June 30, 2018.

The Orion 1-27 claims (Grant numbers P 48623-P 48649) are currently in good standing until January 30, 2012 and are registered to Alex Seely, 33.33%, Warnsby Holdings Limited 33.33%, and Letang Construction Limited, 33.34%. The claim locations are shown in Figure 2.



Plate 1 - Tim Coles Mining Operation, lower mining area, 2009

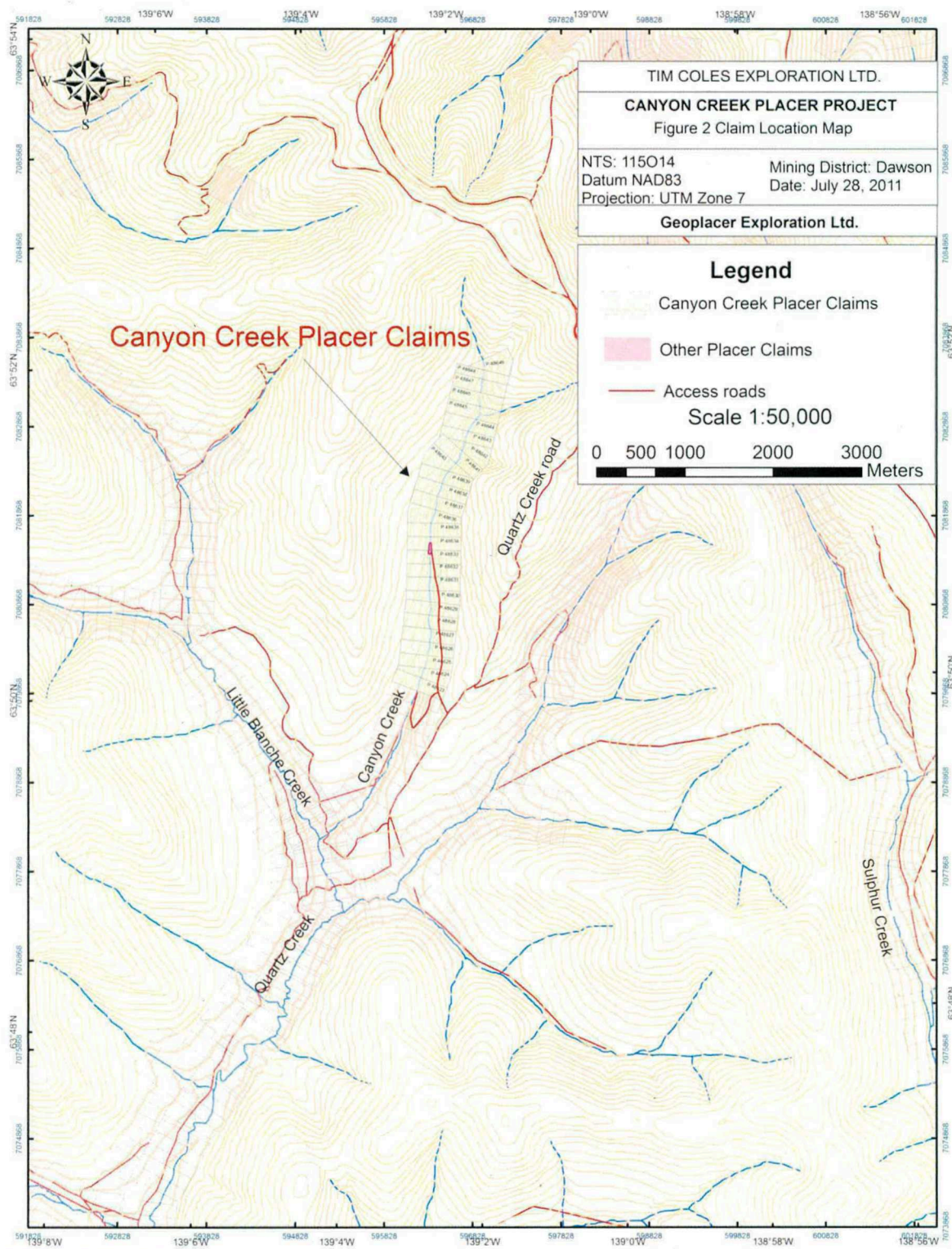


Figure 2 - Claim Location Map

## EXPLORATION AND MINING HISTORY

Although historic activity took place in the area from the times of the 1898 Klondike Gold Rush, Canyon Creek saw little mining or exploration at the time. There is some evidence of old-timers workings including a cross-cut exploration tunnel on Claim P 48635 which may have been constructed when the ground was held under the Boyle-Gates hydraulic concession, which included this area as well as most of Quartz Creek down to Calder Creek. The ground was staked in recent times by Tim Coles in 2007, and the 2009 season was the first time mechanized mining activity took place in this valley. In 2009, Mr. Coles along with 4 other miners and camp personnel worked a daily 12 hour shift, stripping and sluicing a mine cut measuring 500 by 100 feet (152 by 31 m). Access road construction to the Quartz Creek road and camp construction were completed early in the season. Auger drilling and testing was ongoing. The 2010 season consisted of further auger drilling and test mining, results of which are documented in Appendix C. Placer gold production for Canyon Creek from Government of Yukon royalties is recorded as 631 crude ounces, for the years 2009 to 2010.

## BEDROCK GEOLOGY AND MINERALIZATION

Bedrock geology is shown in Figure 3. The upper reaches of Canyon Creek are underlain by Devonian-Mississippian quartz-mica schist, although most of the lower part of the creek is underlain by Permian Klondike Schist. Regional foliation trends north-northwest and dips shallow to the southwest. Although no bedrock occurrences have been documented in the drainage of Canyon Creek itself, nearby bedrock mineral occurrences occur on the ridge near King Solomon Dome. There, bedrock gold occurs in discordant quartz veins to form a large-scale en-echelon sheeted vein system. Individual veins strike north-south and dip steeply east.

During the site visit on Canyon Creek, the author observed biotite-chlorite schist, intensely folded in places with concentrations and sweats of calcite and quartz, zones of limonite-altered bedrock and occasional thin, vuggy quartz veins which cross-cut the bedrock foliation. Disseminations of pyrite were noted in bedrock.



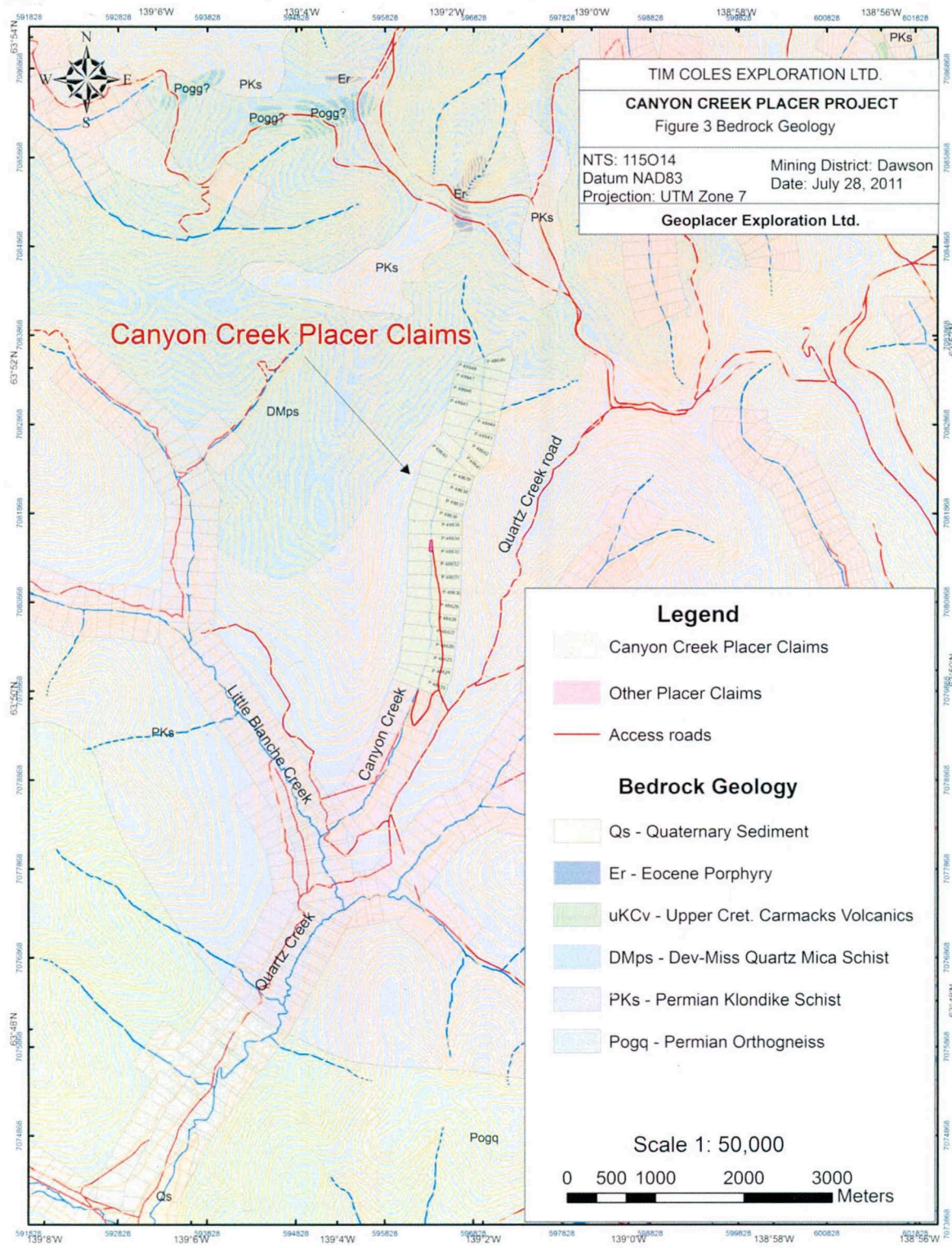


Figure 3 - Bedrock Geology

## SURFICIAL GEOLOGY

A map of the surficial geology is shown in Figure 4. The area lies within the unglaciated Klondike Plateau, which has had a complex history of uplift, incision and reworking of unconsolidated sediment since at least the Pliocene. Ice from Cordilleran glaciations did not incur into the area although numerous related base-level changes and climatic influences affected the nature and concentration of gravel and silt deposits in the local valleys. Deposits mapped in the Canyon Creek area include Cb-v (colluvial blanket-veneer) which mantles the slopes above the valleys, and PT – Tertiary Pediment slope which consists of sediment formed from eroded bedrock and fluvially remobilized on the slopes towards the valley floors. Lower in the valley, an extensive alluvial terrace (unit AtT) lies along the right limit of Quartz Creek, which although not mapped, may also exist on lowermost Canyon Creek. This Pliocene terrace, locally known as the White Channel Gravel, is the most significant placer-gold bearing alluvial deposit in the area. Cross-cutting these older deposits and lowermost in the valleys and gulches lie a complex of Pleistocene to recent alluvial valley and gulch deposits (unit Ax) which are overlain on valley margins by colluvial/eolian slope and windblown deposits of silt, muck and ice (unit CEaP).

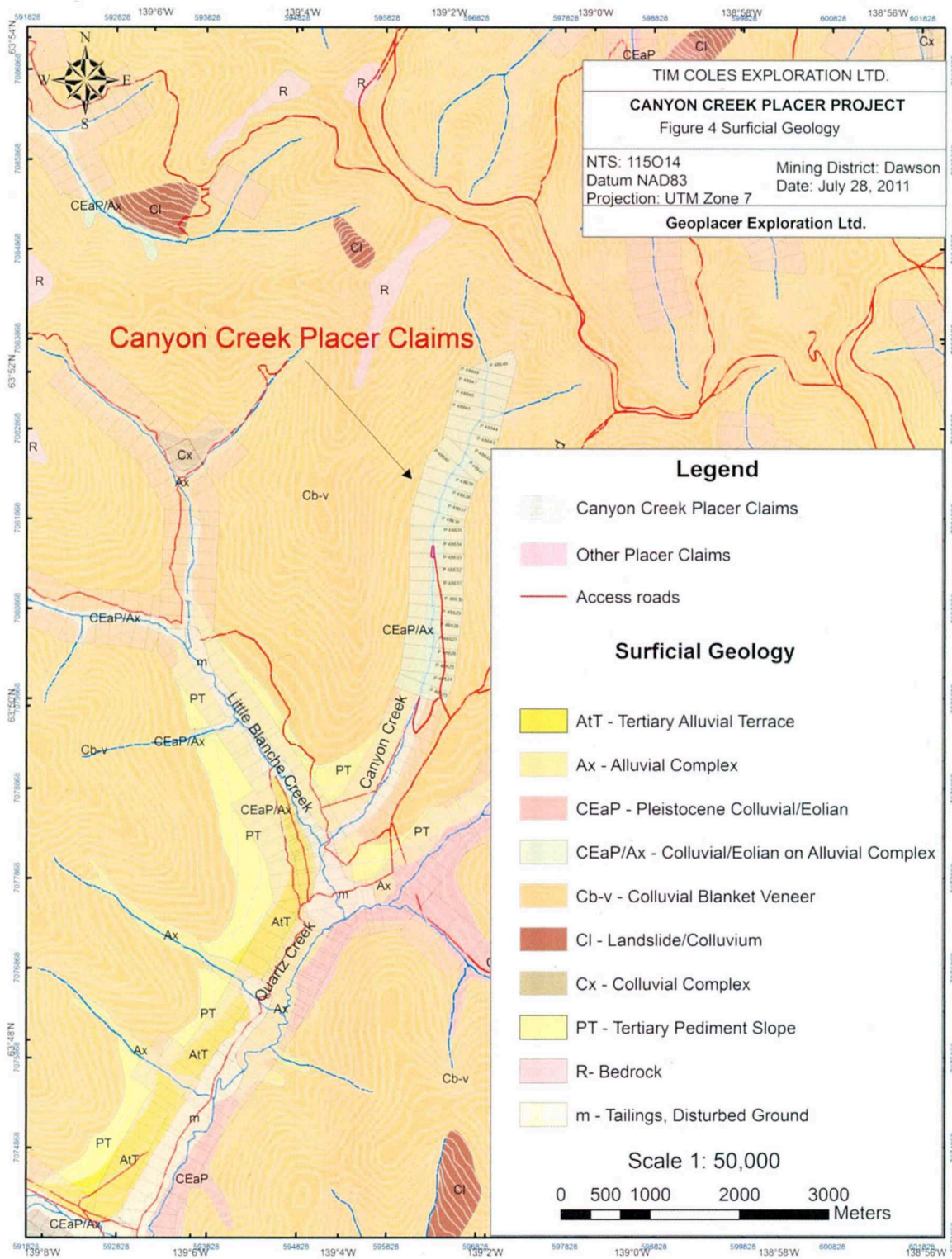


Figure 4 - Surficial Geology

## STRATIGRAPHY

The stratigraphic section at the lower mining area (2009-2010 testing) consisted of 20 to 30 feet (6 to 9 m) of black muck overlying 4 to 5 feet (1.2 to 1.5 m) of gravel. In this location, all of the gravel was sluiced along with 2 feet (0.3 m) of bedrock. The upper mining area (2011 testing – Plate 1) has thinner overburden (black muck) and is thawed in places. Bedrock is undulating and the gravel thickness is approximately 8 feet (2.4 m), of which the bottom 3 feet (0.9 m) was processed along with 3 feet (0.9 m) of bedrock.



Plate 2 - Gravel/bedrock contact, upper mining area 2011

## GOLD CHARACTERISTICS

Although a detailed study of the grain size characteristics of the gold on Canyon Creek has not been conducted, the observed gold is mostly coarse, and reported by the miner to be over a third greater than 12 mesh in size (Plate 3). Pyrite is the main heavy mineral with very minor amounts of garnet and magnetite (Plate 4). The bulk purity of the gold has been assayed as 750 fine.

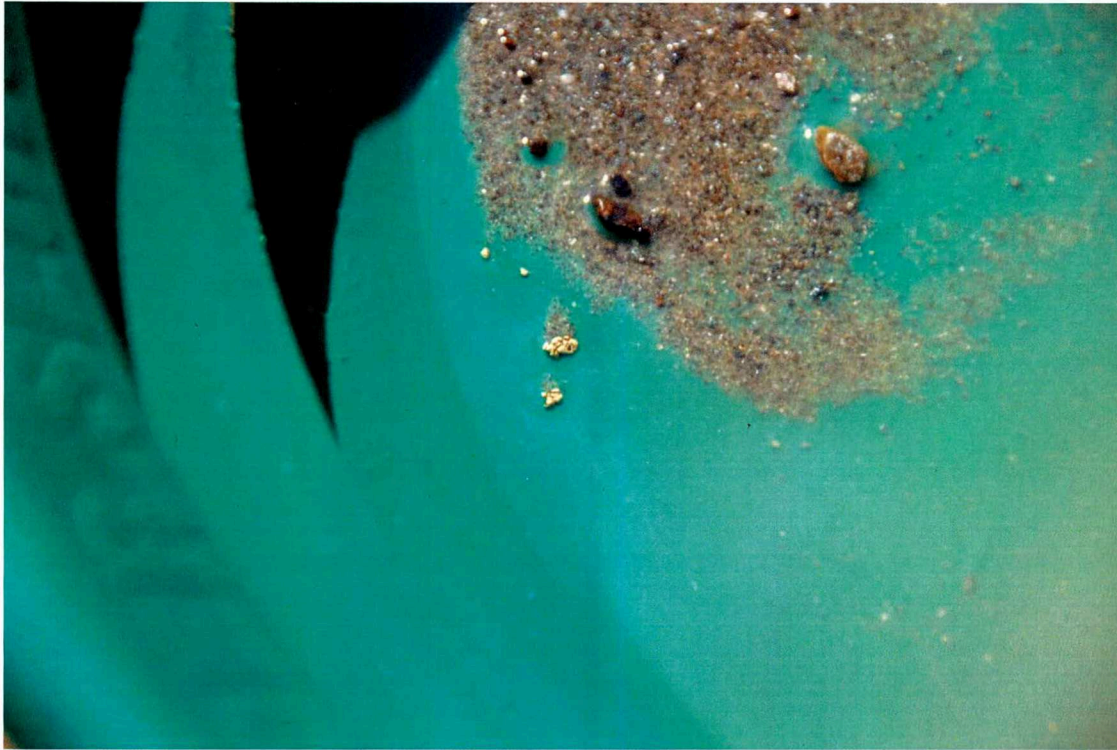


Plate 3 - Typical coarse gold, one pan

## DESCRIPTION OF WORK PROGRAM

A program of exploration consisting of access construction, auger drilling and bulk sampling was conducted in the spring of 2011. The personnel during this program consisted of Karl Knutson, Troy Cahoon, Marie Charbonneau and Tim Coles. William LeBarge conducted a site visit in July 2011.

Equipment at the mine site includes a Caterpillar D9H bulldozer used for stripping and to construct roads, and three excavators, a Caterpillar 235C excavator, a Caterpillar EL300 excavator and a Hitachi 450 excavator, all used for stripping, feeding the sluice plant and removing tailings. The wash plant consists of a 4 foot diameter land-based trommel with 3/4" screen over a 14 foot wide oscillating sluice run which is lined with Nomad matting and expanded metal (Plate 1 and Plate 5). The plant is capable of processing 70 loose cubic yards (54 m<sup>3</sup>) per hour. Water is supplied at 1400 IGPM by a 8" by 6" Paramount pump powered by a 8 cylinder Deutz engine. Sluice water was 75% recycled in 2009 and 2010 but not in 2011.

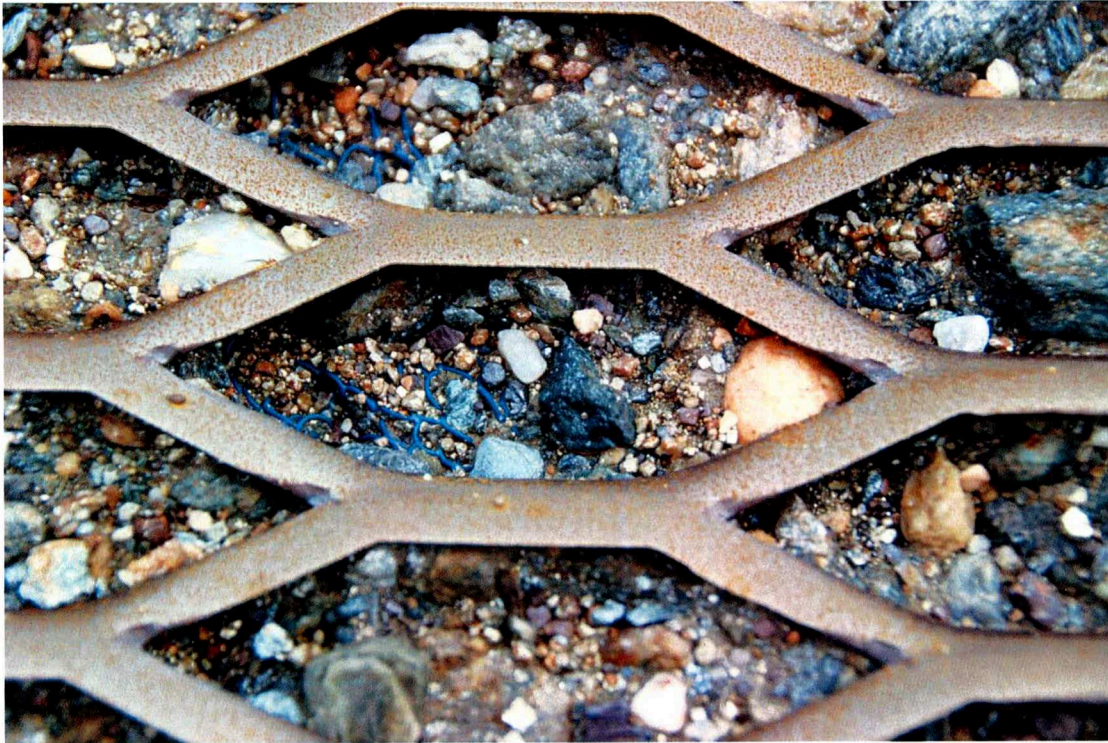


Plate 4 - Typical concentrates shown in expanded metal of wash plant.



Plate 5 - Trommel wash plant and Caterpillar 235 excavator

A total of thirty-six 8-inch auger holes were located, drilled and sampled between March 29 and April 8, 2011. The drill was mounted on a Nodwell, and hole locations were surveyed with a non-differential GPS relative to NAD83 Zone 7N UTM (metric) coordinates. Holes were drilled and only stopped into the top of decomposed bedrock wherever possible. Finished holes were filled with tree logs and marked with flagging and metal tags. Drill samples were concentrated in the long tom, cleaned, and the collected gold was weighed and stored in vials.

Following the drilling, a bulk sampling program was initiated. Stripping and access construction program in preparation for the bulk sampling program was conducted between April 10, 2011 and early June. The processing of the bulk sample took place between June 15 and July 5, 2011 and consisted of 100 hours of washing potential pay material. Equipment hours used for the bulk sample consisted of 200 hours on the Caterpillar D9 bulldozer and 500 excavator hours.

## RESULTS OF PROGRAM

### Auger Drilling

Figures 5a, 5b and 5c show the location of the 2011 drill holes and the test mining pit on the property. Drill hole locations are also shown in Table 1 and placer drill logs for the 2011 program are presented in Appendix B.

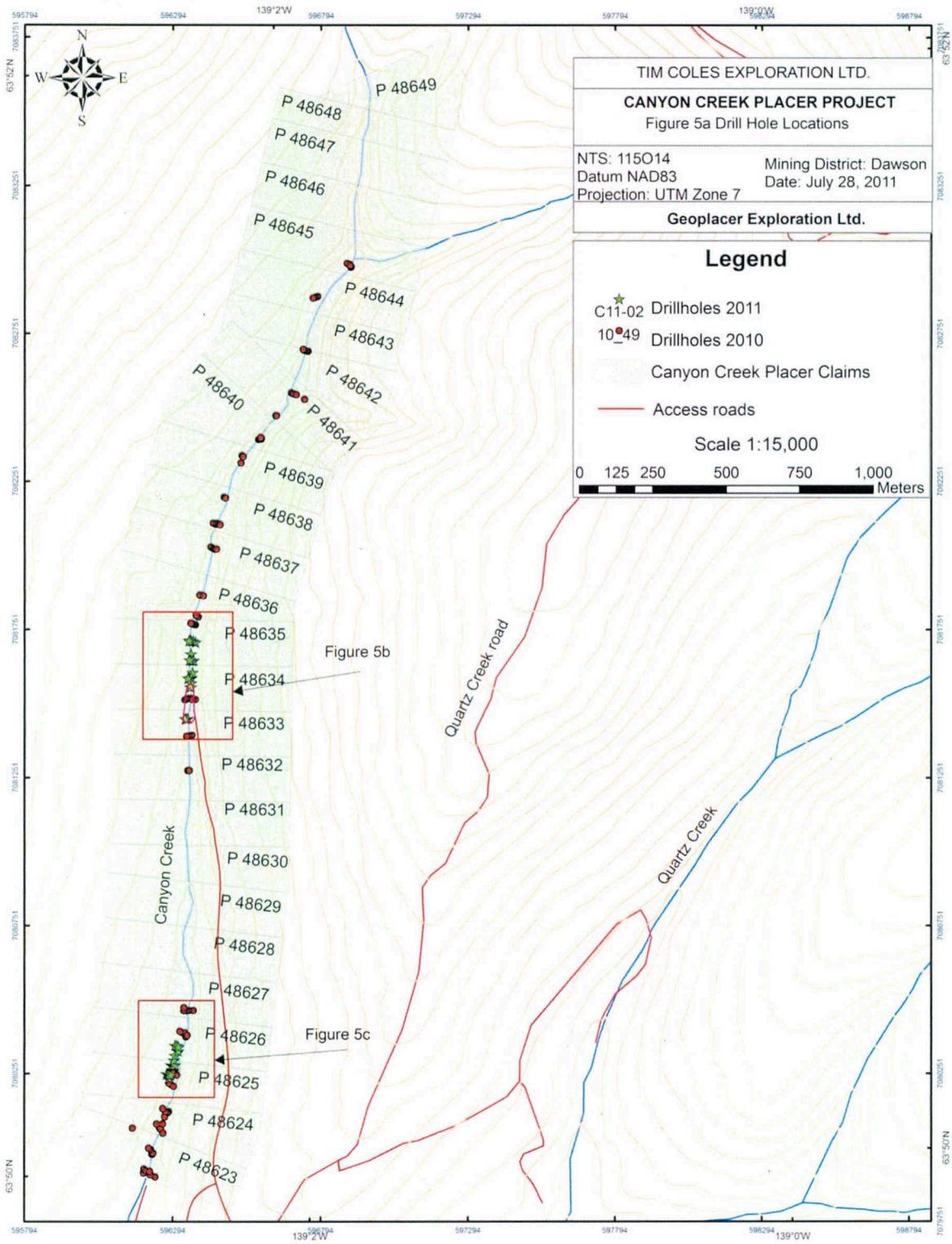
Table 1 – Location of 2011 Drill holes and Gold Recovered

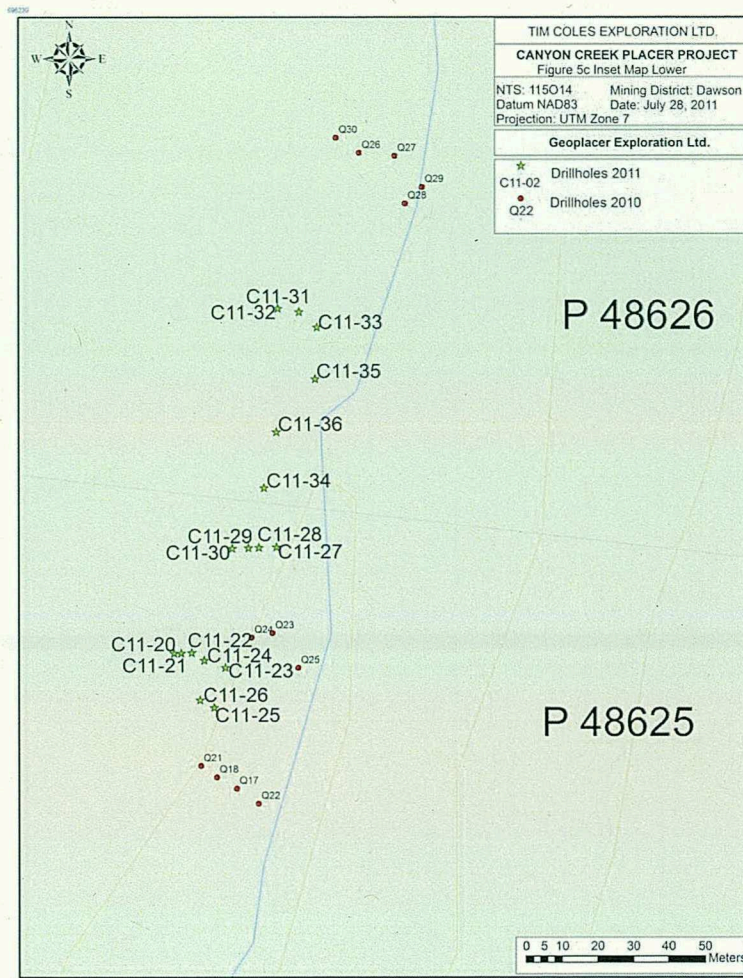
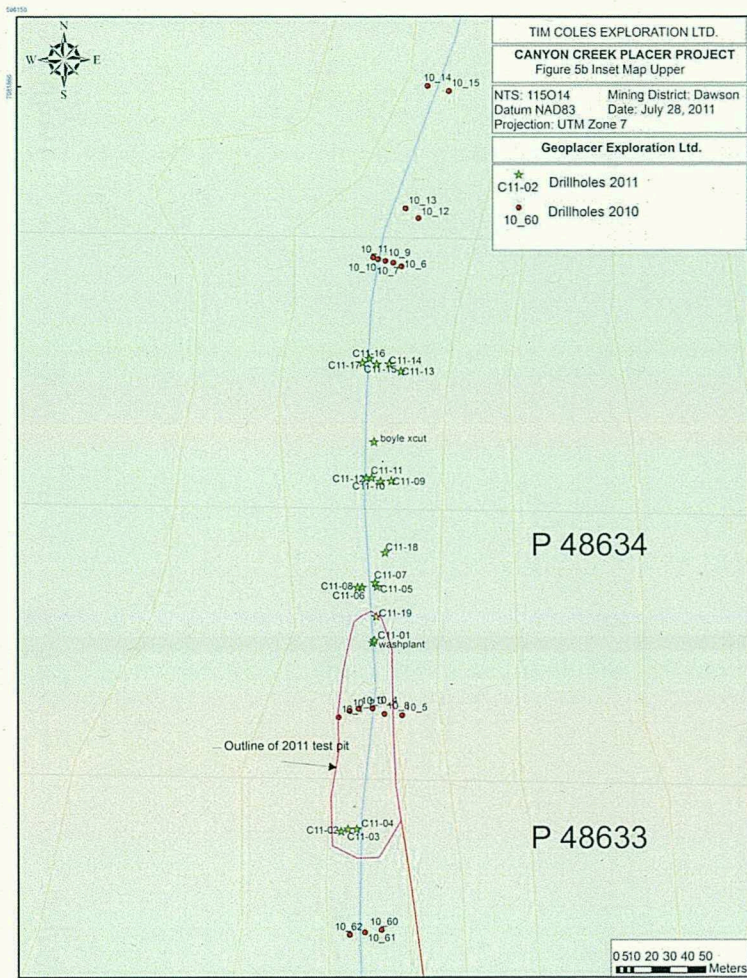
Drill Hole Number	LATDECDEG	LONGDECDEG	Elevation (m)	Gold weight (mg)
C11-01	63.84800	-139.04046	635	130.0
C11-02	63.84704	-139.04091	639	0.0
C11-03	63.84705	-139.04083	637	0.0
C11-04	63.84705	-139.04073	639	0.0
C11-05	63.84827	-139.04041	642	0.0
C11-06	63.84827	-139.04058	641	0.0
C11-07	63.84829	-139.04043	642	0.0
C11-08	63.84827	-139.04063	642	0.0
C11-09	63.84880	-139.04021	647	0.0
C11-10	63.84880	-139.04033	647	0.0
C11-11	63.84882	-139.04043	647	0.0
C11-12	63.84882	-139.04049	648	0.0
C11-13	63.84935	-139.04006	647	0.0
C11-14	63.84939	-139.04019	646	0.0
C11-15	63.84939	-139.04033	648	0.0
C11-16	63.84942	-139.04041	649	0.0
C11-17	63.84940	-139.04049	650	0.0

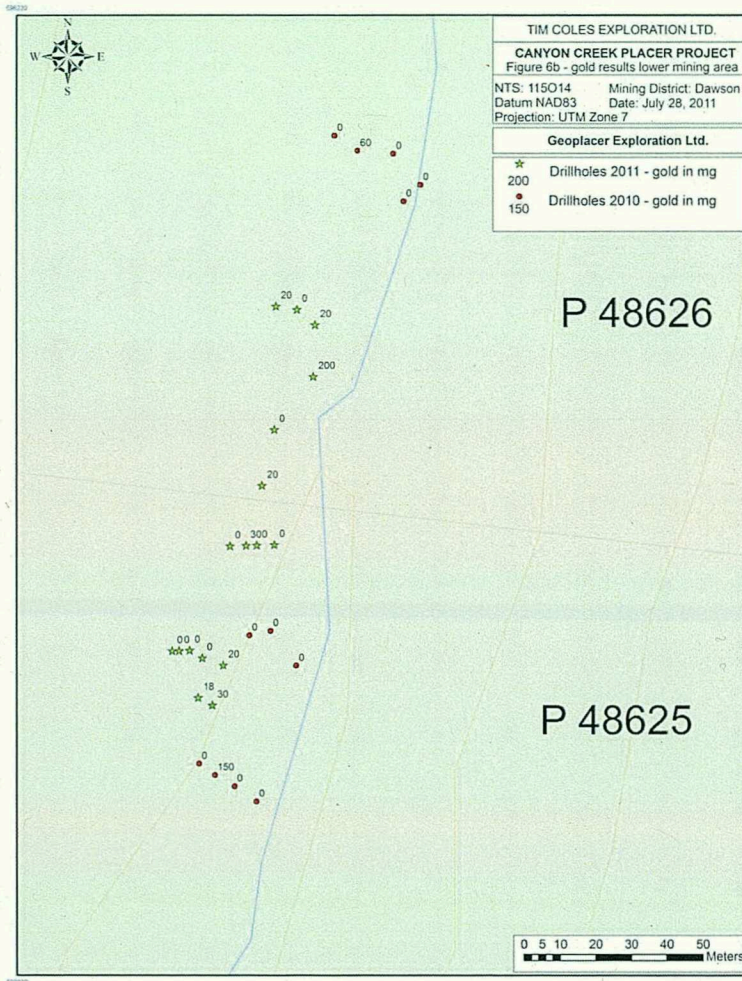
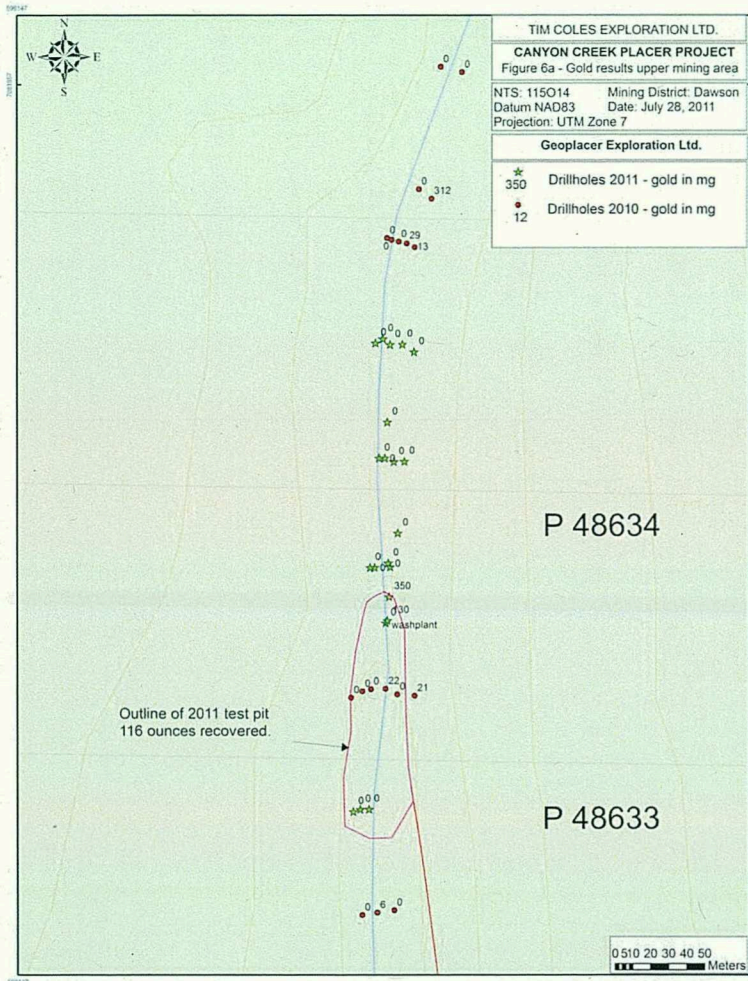
Drill Hole Number	LATDECDEG	LONGDECDEG	Elevation (m)	Gold weight (mg)
C11-18	63.84844	-139.04031	644	0.0
C11-19	63.84812	-139.04043	637	350.0
C11-20	63.83631	-139.04292	621	0.0
C11-21	63.83631	-139.04288	618	0.0
C11-22	63.83631	-139.04282	618	0.0
C11-23	63.83629	-139.04275	618	0.0
C11-24	63.83627	-139.04263	616	20.0
C11-25	63.83617	-139.04270	625	30.0
C11-26	63.83619	-139.04278	626	18.0
C11-27	63.83657	-139.04232	614	0.0
C11-28	63.83657	-139.04242	615	0.0
C11-29	63.83657	-139.04248	614	30.0
C11-30	63.83657	-139.04257	614	0.0
C11-31	63.83716	-139.04215	613	0.0
C11-32	63.83717	-139.04227	613	20.0
C11-33	63.83712	-139.04205	611	20.0
C11-34	63.83672	-139.04238	615	20.0
C11-35	63.83699	-139.04207	608	200.0
C11-36	63.83686	-139.04230	607	0.0

Table 1 and Figures 6a and 6b show the gold results from the drilling in 2011. The results show that while the majority of drill samples did not recover any gold, some drill holes recovered high grade values of coarse gold of up to 350 mg.









## Bulk Sampling

The bulk sample from the test pit was approximately 200 feet (61 m) long, 45 feet (13.7 m) wide and 8 feet (2.43 m) deep. The dimensions of the pit were 1000 bedrock square yards, and approximately 5000 loose cubic yards of material were processed. A total of 116 ounces (3608 grams) was recovered from the bulk sample. This translates to a grade of 0.116 oz/bedrock square yard, 0.0232 oz/loose cubic yard or 0.94 grams/loose cubic metre. This figure includes a dilution of pay material of 20% during mining but does not include the 6 feet (1.8 m) of frozen muck and 6 feet (1.8 m) of overburden gravel which were stripped prior to test mining.

## CONCLUSIONS AND RECOMMENDATIONS

Overall, the bulk sampling program was successful in identifying the paystreak in the valley, which was determined to be only 30 to 45 feet (9.1 to 13.7 m) wide. Results from bulk testing of areas of prior drilling showed that on average, the auger drilling only indicated one-third of the values recovered during bulk sampling. This was despite the very close spacing of drill holes of 15 to 20 feet (4.5 to 6 m).

This type of result is due to the coarse size of the gold, the narrow character of the paystreak in the valley and the overall difficulty in recovering samples while drilling in frozen and partially-thawed gulch valley settings.

It is recommended that in future evaluations of placer gold deposits of this type that even relatively closely-spaced drilling of several metres must be followed by bulk sampling and test mining in order to determine placer gold values.

## REFERENCES

Aurora Geosciences Ltd., 2010. Final YMIP Report for Tim Coles Enterprises Ltd., Canyon Creek, April 2010.

Deklerk, R. 2011. Yukon Minfile Online Database, Yukon Geological Survey, Government of Yukon; URL <http://servlet.gov.yk.ca/ygsmin/index.do>

Froese, D.G. and Jackson, L.E., Jr., 2005. Surficial Geology, GRAND FORKS, Yukon Territory: Geological Survey of Canada, Open File 4591, scale 1:50 000, 2005.:

Gordey, S.G. and Ryan, J.J., 2005. Geology, Stewart River Area, 115N, 115O, and part of 115J, Geological Survey of Canada Open File 4970, scale 1:250,000.

LeBarge, W.P. 2009-2011 Field notes from property visits, unpublished.

LeBarge, W.P., 2010. Yukon Placer Database Online - Geology and mining activity of placer occurrences, Yukon Geological Survey, Government of Yukon, URL <http://servlet.gov.yk.ca/ygsplacer/stream.do>.

LeBarge, W.P. and Nordling, M.G. , 2011. Yukon Placer Mining Industry Report 2007-2009, Yukon Geological Survey, Energy, Mines and Resources, Yukon Government, 151 p.

Northern Mining Record System Online, 2011. Yukon Mining Recorder, Government of Yukon, URL <http://apps.gov.yk.ca/ymcs>

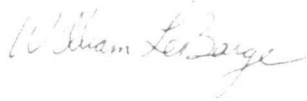
## APPENDIX A – CERTIFICATE

I, William LeBarge, M.Sc., P.Geol., of the City of Whitehorse, Yukon, Canada, DO HEREBY CERTIFY THAT:

1. I am currently self-employed as the Principal Geologist with Geoplacer Exploration Ltd., a company duly registered in the Yukon Territory, Canada
2. I am a graduate of the University of Alberta (B.Sc., 1985, Geology) and the University of Calgary (M.Sc., 1993, Geology – Sedimentology)
3. I am a Practicing Member (P Geol. #42993) of the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA).
4. I have practiced my Profession as a Geologist for 26 years, specializing for 21 years in Placer Geology.
5. I am the author of the report entitled: “2011 Placer Exploration Program at Canyon Creek Placer Property”, dated July 31, 2011.
6. The aforementioned report is based on my personal observations and interpretation and compilation of previously existing data.
7. I have no personal interest in the property described in the report.

Signed, this 31<sup>st</sup> day of July, 2011,

at Whitehorse, Yukon, Canada.



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William LeBarge, P. Geol.

## APPENDIX B - 2011 Placer drill logs

Hole ID	LITHOLOGY	From (m)	To (m)
C11-01	Ice	0.00	1.22
C11-01	Overburden	1.22	6.10
C11-01	Gravel	6.10	8.23
C11-01	Bedrock	8.23	8.84
C11-02	Ice	0.00	0.61
C11-02	Overburden	0.61	4.88
C11-02	Gravel	4.88	6.40
C11-02	Bedrock	6.40	7.32
C11-03	Ice	0.00	1.83
C11-03	Overburden	1.83	5.18
C11-03	Gravel	5.18	6.71
C11-03	Bedrock	6.71	7.92
C11-04	Ice	0.00	2.13
C11-04	Overburden	2.13	6.40
C11-04	Gravel	6.40	7.92
C11-04	Bedrock	7.92	9.14
C11-05	Ice	0.00	2.13
C11-05	Overburden	2.13	6.71
C11-05	Gravel	6.71	8.84
C11-05	Bedrock	8.84	9.45
C11-06	Ice	0.00	1.22
C11-06	Overburden	1.22	6.40
C11-06	Gravel	6.40	8.53
C11-06	Bedrock	8.53	9.14
C11-07	Ice	0.00	1.52
C11-07	Overburden	1.52	5.18
C11-07	Gravel	5.18	7.01
C11-07	Bedrock	7.01	7.62
C11-08	Ice	0.00	1.52
C11-08	Overburden	1.52	6.10
C11-08	Gravel	6.10	7.62
C11-08	Bedrock	7.62	8.23
C11-09	Ice	0.00	0.91
C11-09	Overburden	0.91	4.88
C11-09	Gravel	4.88	6.40
C11-09	Bedrock	6.40	7.92
C11-10	Ice	0.00	0.91
C11-10	Overburden	0.91	5.79

Hole ID	LITHOLOGY	From (m)	To (m)
C11-10	Gravel	5.79	7.92
C11-10	Bedrock	7.92	9.14
C11-11	Ice	0.00	0.91
C11-11	Overburden	0.91	5.79
C11-11	Gravel	5.79	7.62
C11-11	Bedrock	7.62	9.45
C11-12	Ice	0.00	0.61
C11-12	Overburden	0.61	4.57
C11-12	Gravel	4.57	5.79
C11-12	Bedrock	5.79	7.62
C11-13	Overburden	0.00	0.61
C11-13	Gravel	0.61	2.74
C11-13	Bedrock	2.74	3.05
C11-14	Ice	0.00	0.91
C11-14	Overburden	0.91	3.66
C11-14	Gravel	3.66	5.79
C11-14	Bedrock	5.79	6.40
C11-15	Ice	0.00	0.91
C11-15	Overburden	0.91	3.96
C11-15	Gravel	3.96	5.49
C11-15	Bedrock	5.49	6.71
C11-16	Ice	0.00	1.22
C11-16	Overburden	1.22	3.96
C11-16	Gravel	3.96	5.18
C11-16	Bedrock	5.18	6.10
C11-17	Ice	0.00	0.30
C11-17	Overburden	0.30	3.66
C11-17	Gravel	3.66	5.49
C11-17	Bedrock	5.49	6.40
C11-18	Ice	0.00	0.91
C11-18	Overburden	0.91	3.66
C11-18	Gravel	3.66	5.49
C11-18	Bedrock	5.49	6.10
C11-19	Ice	0.00	2.44
C11-19	Overburden	2.44	5.79
C11-19	Gravel	5.79	7.32
C11-19	Bedrock	7.32	7.92
C11-20	Overburden	0.00	9.14
C11-20	Gravel	9.14	10.67
C11-20	Bedrock	10.67	12.19
C11-21	Overburden	0.00	9.45



Hole ID	LITHOLOGY	From (m)	To (m)
C11-21	Gravel	9.45	10.36
C11-21	Bedrock	10.36	10.67
C11-22	Overburden	0.00	9.14
C11-22	Gravel	9.14	10.36
C11-22	Bedrock	10.36	11.58
C11-23	Overburden	0.00	9.75
C11-23	Gravel	9.75	11.28
C11-23	Bedrock	11.28	12.19
C11-24	Overburden	0.00	10.06
C11-24	Gravel	10.06	11.28
C11-24	Bedrock	11.28	11.58
C11-25	Overburden	0.00	7.62
C11-25	Gravel	7.62	9.75
C11-25	Bedrock	9.75	10.67
C11-26	Overburden	0.00	8.84
C11-26	Gravel	8.84	10.67
C11-26	Bedrock	10.67	11.28
C11-27	Overburden	0.00	8.53
C11-27	Gravel	8.53	10.06
C11-27	Bedrock	10.06	10.67
C11-28	Overburden	0.00	9.14
C11-28	Gravel	9.14	11.28
C11-28	Bedrock	11.28	11.58
C11-29	Overburden	0.00	10.36
C11-29	Gravel	10.36	11.89
C11-29	Bedrock	11.89	12.80
C11-30	Overburden	0.00	10.06
C11-30	Gravel	10.06	11.28
C11-30	Bedrock	11.28	12.19
C11-31	Overburden	0.00	9.14
C11-31	Gravel	9.14	10.36
C11-31	Bedrock	10.36	10.97
C11-32	Overburden	0.00	9.14
C11-32	Gravel	9.14	10.67
C11-32	Bedrock	10.67	12.19
C11-33	Overburden	0.00	8.84
C11-33	Gravel	8.84	10.67
C11-33	Bedrock	10.67	10.67
C11-34	Overburden	0.00	10.36
C11-34	Gravel	10.36	10.97
C11-34	Bedrock	10.97	11.89

Hole ID	LITHOLOGY	From (m)	To (m)
C11-35	Overburden	0.00	5.18
C11-35	Gravel	5.18	6.71
C11-35	Bedrock	6.71	7.62
C11-36	Overburden	0.00	6.40
C11-36	Gravel	6.40	6.71
C11-36	Bedrock	6.71	7.01



### Placer Drill Log

Date Stamp

Date: MARCH 29 2011 Driller: KARL KNOTSON  
 Type of drill: NODWELL Inside Diameter of Drill: 8"  
 Location: CANYON CR.  
 Lease or Grant Numbers: \_\_\_\_\_

Drill Hole Number	Total Footage	Breakdown in feet	Materials encountered	Remarks: Samples / Results
01	29	4' ICE / 16' OB / 7' GR	4' ICE / 16' OB / 7' GR / 2' BR	THAW'D WET HOLE 2 PAIRS
02	24	2' ICE / 14' OB / 5' GR	2' ICE / 14' OB / 5' GR / 3' BR	THAW'D WET HOLE 3 PAIRS
03	26	6' ICE / 11' OB / 5' GR / 4' BR	6' ICE / 11' OB / 5' GR / 4' BR	THAW'D WET HOLE 4 PAIRS
04	30	7' ICE / 14' OB / 5' GR / 4' BR	7' ICE / 14' OB / 5' GR / 4' BR	THAW'D WET HOLE 5 PAIRS
05	31	7' ICE / 15' OB / 7' GR / 2' BR	7' ICE / 15' OB / 7' GR / 2' BR	THAW'D WET HOLE 3 PAIRS
06	30	4' ICE / 17' OB / 7' GR / 2' BR	4' ICE / 17' OB / 7' GR / 2' BR	THAW'D WET HOLE 4 PAIRS
07	25	5' ICE / 12' OB / 6' GR / 2' BR	5' ICE / 12' OB / 6' GR / 2' BR	DRY THAW'D HOLE 2 PAIRS
08	27	5' ICE / 15' OB / 5' GR / 2' BR	5' ICE / 15' OB / 5' GR / 2' BR	WET HOLE 3 PAIRS
09	26	3' ICE / 13' OB / 5' GR / 5' BR	3' ICE / 13' OB / 5' GR / 5' BR	WET HOLE 4 PAIRS
10	30	4' ICE / 15' OB / 7' GR / 4' BR	4' ICE / 15' OB / 7' GR / 4' BR	WET HOLE 8 PAIRS
11	31	3' ICE / 16' OB / 6' GR / 6' BR	3' ICE / 16' OB / 6' GR / 6' BR	WET HOLE

Date: April 3 2011 Signed (Driller or Representative): [Signature]





### Placer Drill Log

Date Stamp

Date: MARCH 30 2011 Driller: KARL KNUTSON  
 Type of drill: NOB WELL Inside Diameter of Drill: 8"  
 Location: CANYON CR.  
 Lease or Grant Numbers: \_\_\_\_\_

Drill Hole Number	Total Footage	Breakdown in feet	Materials encountered	Remarks: Samples / Results
12	25		2' IC / 13' OB / 4' GR / 6' BR	DRY HOLE 6 PAIRS
13	10		2' OB / 7' GR / 1' BR	DRY HOLE 4 PAIRS THRU
14	21		3' IC / 9' OB / 7' GR / 2' BR	WET HOLE 3 PAIRS
15	22		3' IC / 10' OB / 5' GR / 4' BR	WET HOLE 4 PAIRS
16	20		4' IC / 9' OB / 4' GR / 3' BR	WET HOLE 4 PAIRS
17	21		1' IC / 11' OB / 6' GR / 3' BR	WET HOLE 5 PAIRS
18	20		3' IC / 9' OB / 6' GR / 2' BR	WET HOLE 3 PAIRS
19	26		8' IC / 11' OB / 5' GR / 2' BR	WET HOLE 7 PAIRS
20	40		30' OB / 5' GR / 5' BR	DRY HOLE 6 PAIRS FROZEN
21	35		31' OB / 3' GR / 1' BR	DRY HOLE 5 PAIRS FROZEN
22	38		30' OB / 4' GR / 4' BR	DRY HOLE 5 PAIRS FROZEN

Date: Apr 18 / 2011 Signed (Driller or Representative): [Signature]





### Placer Drill Log

Date Stamp

Date: MARCH 31 2011 Driller: KARL KNUTSON  
 Type of drill: NOBWEIL Inside Diameter of Drill: 8"  
 Location: CANYON CR.  
 Lease or Grant Numbers: \_\_\_\_\_

Drill Hole Number	Total Footage	Breakdown in feet	Materials encountered	Remarks: Samples / Results
23	41		32' OB / 5' GR / 3' BR	DRY HOLE 6 PAIRS FROZEN
24	38		33' OB / 4' GR / 1' BR	DRY HOLE 5 PAIRS FROZEN
25	35		25' OB / 7' GR / 3' BR	DRY HOLE 7 PAIRS FROZEN
26	37		29' OB / 6' GR / 2' BR	DRY HOLE 7 PAIRS FROZEN

Date: April 8 2011 Signed (Driller or Representative): Karl Knutson





**Placer Drill Log**

Date Stamp

Date: April 17/11 Driller: KARL KNOTSON  
 Type of drill: NOBUZELL Inside Diameter of Drill: 8"  
 Location: CANYON CR.  
 Lease or Grant Numbers: \_\_\_\_\_

Drill Hole Number	Total Footage	Breakdown in feet	Materials encountered	Remarks: Samples / Results
27	35		28'OB / 5'GR / 2'BR	DRY HOLE 7 PAILS
28	38		30'OB / 7'GR / 1'BR	DRY HOLE 6 PAILS
29	42		34'OB / 5'GR / 3'BR	DRY HOLE 5 PAILS
30	40		33'OB / 4'GR / 3'BR	DRY HOLE 5 PAILS
31	36		30'OB / 4'GR / 2'BR	DRY HOLE 6 PAILS

Date: April 18 / 2011 Signed (Driller or Representative): [Signature]





### Placer Drill Log

Date Stamp

Date: Apr. 18 / 2011 Driller: KARL KNUTSON  
 Type of drill: NODWELL Inside Diameter of Drill: 8"  
 Location: CANYON CR.  
 Lease or Grant Numbers: \_\_\_\_\_

Drill Hole Number	Total Footage	Breakdown in feet	Materials encountered	Remarks: Samples / Results
32	40		30' OB / 5' CR / 5' BR	DRY HOLE 4 PAIRS
33	35		29' OB / 6' CR / BR @ 35'	DRY HOLE 7 PAIRS
34	39		34' OB / 2' CR / 3' BR	DRY HOLE 5 PAIRS
35	25		17' OB / 5' CR / 3' BR	WET HOLE 6 PAIRS
36	23		21' OB / 1' CR / 1' BR	DRY HOLE 2 PAIRS

Date: April 18, 2011 Signed (Driller or Representative): Karl Knutson



## APPENDIX C - 2010 Drill Hole Locations, Gold Results and Drill Logs

### 2010 Drill Hole Locations

Hole_ID	Depth (m)	UTME_N83	UTMN_N83	Lat DecDeg	LongDecDeg	Elevation
10_1	9.1	596334.3	7081513.9	63.8476212	-139.0408901	644.1
10_2	7	596340.6	7081517.4	63.8476509	-139.0407599	642.7
10_3	1.8	596345.5	7081518.7	63.8476612	-139.0406595	641.6
10_4	7.9	596353.3	7081518.9	63.8476609	-139.0405008	640
10_5	7.6	596369.8	7081514.9	63.8476204	-139.040168	641.7
10_6	7	596369.8	7081767	63.8498815	-139.0400106	655.6
10_7	7.9	596365.3	7081769.1	63.8499016	-139.0401008	655.6
10_8	8.5	596359.8	7081515.8	63.8476313	-139.0403707	639.3
10_9	1.8	596360.9	7081770	63.8499109	-139.0401896	655.7
10_10	2.4	596356.9	7081771	63.8499209	-139.0402703	655.9
10_11	2.4	596354.4	7081772.1	63.8499315	-139.0403204	656
10_12	7	596379.3	7081794	63.850121	-139.0398007	657.7
10_13	4	596372.3	7081799.4	63.8501714	-139.0399396	658
10_14	0.9	596384.4	7081867.8	63.8507815	-139.039651	662.2
10_15	4	596396.3	7081864.8	63.8507513	-139.039411	663.2
10_16	6.4	596421.8	7082029.5	63.8522215	-139.0387898	660.1
10_17	7	596430.3	7082025.3	63.8521815	-139.0386197	659.7
10_18	2.4	596435.3	7082022.1	63.8521514	-139.03852	659.8
10_19	6.4	596440.7	7082022.2	63.8521508	-139.0384102	660
10_20	4.3	596434.6	7082107.9	63.8529211	-139.0384806	663
10_21	7	596430.1	7082110	63.8529412	-139.0385708	663.4
10_22	7.6	596440.6	7082107	63.8529114	-139.0383593	663.2
10_23	7.9	596440	7082109.2	63.8529313	-139.0383701	663.5
10_24	5.2	596447.9	7082108.3	63.852921	-139.0382101	664.2
10_25	1.5	596452.9	7082105.1	63.852891	-139.0381104	664.4
10_26	3	596582.7	7082394.6	63.8554516	-139.0352909	687
10_27	8.2	596586.6	7082396.9	63.8554711	-139.0352102	685.6
10_28	7.3	596592	7082396	63.8554616	-139.035101	684.1
10_29	5.5	596592.4	7082399.3	63.8554911	-139.0350908	684
10_30	6.7	596589.9	7082401.5	63.8555115	-139.0351402	684.5
10_31	7.3	596641.7	7082475.5	63.8561609	-139.0340409	689.2
10_32	7	596641.3	7082475.5	63.856161	-139.034049	689.1
10_33	7.6	596644.2	7082474.5	63.8561512	-139.0339907	689.5
10_34	4.3	596694.5	7082551.9	63.8568315	-139.0329197	695.8
10_35	5.2	596700.5	7082548.7	63.8568011	-139.0327997	695.8
10_36	11	596710.9	7082545.7	63.8567713	-139.0325902	696.3
10_37	8.8	596750.7	7082691.8	63.8580706	-139.0316895	700.1
10_38	8.2	596744.2	7082692.8	63.8580814	-139.031821	699.9



Hole_ID	Depth (m)	UTME_N83	UTMN_N83	Lat DecDeg	LongDecDeg	Elevation
10_39	7.6	596738.3	7082694.8	63.858101	-139.0319397	700.3
10_40	7	596734.2	7082698	63.8581308	-139.032021	700.7
10_41	2.1	596895.9	7082975.1	63.8605713	-139.0285596	719.1
10_42	5.2	596893.3	7082980.6	63.8606213	-139.028609	718.5
10_43	5.2	596891.6	7082985	63.8606613	-139.0286408	718.2
10_44	6.1	596888.2	7082986	63.8606712	-139.0287093	718.2
10_45	3.7	596882.7	7082988	63.8606906	-139.0288199	718.3
10_46	5.8	596783.4	7082875.7	63.859711	-139.0309093	717.9
10_47	10.7	596774.6	7082873.2	63.859691	-139.0310898	718.3
10_48	4.9	596767.8	7082870.8	63.8596713	-139.0312295	718.8
10_49	6.4	596896.3	7082978.4	63.8606008	-139.0285494	718.8
10_50	5.8	596892.7	7082981.7	63.8606314	-139.0286205	718.4
10_51	11	596738.4	7082529.2	63.8566157	-139.0320415	699.3
10_52	5.8	596527.4	7082339.3	63.8549709	-139.0364496	683.4
10_53	8.2	596530.9	7082336.1	63.8549412	-139.0363805	683.6
10_54	6.1	596523.2	7082314.7	63.8547514	-139.0365504	684.2
10_55	3	596466.8	7082198.1	63.8537212	-139.0377698	679.2
10_56	7	596471.3	7082196	63.8537012	-139.0376796	679.1
10_57	8.2	596344.1	7081275.6	63.8454812	-139.0408396	642.6
10_58	10.4	596346.5	7081275.7	63.8454815	-139.0407908	642.8
10_59	8.8	596349.5	7081275.8	63.8454815	-139.0407298	643
10_60	6.1	596358.2	7081394.2	63.8465411	-139.0404791	643.8
10_61	7.3	596348.8	7081392.8	63.8465311	-139.040671	642.8
10_62	7.3	596340.5	7081391.4	63.8465208	-139.0408405	642.2
Q1	1.5	596195.8	7079915.6	63.8333243	-139.0447	595.2
Q2	3.7	596234.6	7079901.3	63.8331853	-139.0439208	598.6
Q3	4	596224.6	7079978.7	63.8338823	-139.0440758	596.8
Q4	5.5	596219	7079908.6	63.8332551	-139.0442331	596.2
Q5	7	596197	7079928	63.8334352	-139.0446679	595.43
Q6	5.5	596204	7079923	63.8333884	-139.0445289	595.34
Q7	2.7	596216	7079921	63.8333672	-139.0442864	595.84
Q8	7	596227	7079983	63.8339202	-139.0440243	596.92
Q9	7.9	596220	7079994	63.8340208	-139.0441597	596.53
Q10	5.8	596213	7079999	63.8340676	-139.0442987	596.62
Q11	7.3	596158	7080067	63.8346926	-139.0453736	606.43
Q12	7.9	596252	7080064	63.8346398	-139.0434661	598.62
Q13	7	596248	7080069	63.8346858	-139.0435442	598.35
Q14	4.7	596280	7080123	63.8351613	-139.0428606	602.84
Q15	9.5	596277	7080118	63.8351173	-139.0429246	602.18
Q16	9.1	596269	7080122	63.8351553	-139.0430846	601.48
Q17	12.2	596290.6	7080212.5	63.8359611	-139.0425895	600.8
Q18	12.2	596285.1	7080215.7	63.8359913	-139.0426992	600.4

Hole_ID	Depth (m)	UTME_N83	UTMN_N83	Lat DecDeg	LongDecDeg	Elevation
Q19	11.3	596239.5	7080080.5	63.8347912	-139.0437097	598.4
Q20	11.6	596260.5	7080133.6	63.8352617	-139.0432501	600.9
Q21	11.3	596280.5	7080218.9	63.8360213	-139.0427906	600.1
Q22	10.7	596296.6	7080208.2	63.8359209	-139.0424703	601.3
Q23	11.9	596300.6	7080256.3	63.8363512	-139.042359	599
Q24	11.4	596294.7	7080255	63.8363411	-139.0424797	599.4
Q25	13.1	596307.7	7080246.5	63.8362613	-139.0422209	598.8
Q26	9.8	596325	7080390.9	63.8375517	-139.0417795	610.5
Q27	7.2	596334.8	7080390	63.8375409	-139.0415809	611
Q28	7	596337.7	7080376.8	63.8374217	-139.0415302	610.3
Q29	6.7	596342.5	7080381.4	63.8374616	-139.0414299	611.2
Q30	11.9	596318.4	7080395.1	63.8375912	-139.0419109	610.7
Q31	6.1	596363.6	7080465.1	63.8382065	-139.040949	616.4
Q32	6.1	596348.2	7080464.6	63.8382063	-139.0412622	615.1
Q33	5.5	596340.5	7080464.4	63.8382066	-139.0414187	614.8
Q34	8.2	596331.6	7080464.6	63.8382109	-139.0415994	614.6
Q-35	9.5	596331.8	7080474.7	63.8383014	-139.0415891	615
Q36	6.7	596252.7	7080065.1	63.8346495	-139.0434512	598.6
Q37	5.8	596260.9	7080049.8	63.83451	-139.0432941	600.2
Q38	6.9	596266.9	7080104.4	63.8349981	-139.0431382	600.1
Q39	6.9	596259.9	7080080.9	63.8347892	-139.0432951	599

### 2010 Drill Hole Gold Results

Hole_ID	From (m)	To (m)	Thickness (m)	Gold weight (mg)
10_1	4	5.8	1.8	0
10_2	3.4	5.2	1.8	0
10_3	1.5	1.8	0.3	0
10_4	2.4	4.3	1.9	22
10_5	4.3	6.1	1.8	21
10_6	4.3	6.1	1.8	13
10_7	5.2	7	1.8	29
10_8	3.7	5.5	1.8	0
10_9	0	1.8	1.8	0
10_10	0.6	2.4	1.8	0
10_11	0.6	2.4	1.8	0
10_12	3.7	5.5	1.8	312
10_13	2.1	4	1.9	0
10_14	0	0.9	0.9	0
10_15	2.1	4	1.9	0

Hole_ID	From (m)	To (m)	Thickness (m)	Gold weight (mg)
10_16	2.7	4.6	1.9	0
10_17	1.2	3	1.8	0
10_18	0	0.9	0.9	0
10_19	2.7	5.8	3.1	5
10_20	2.7	4.3	1.6	0
10_21	3.4	6.4	3	trace
10_22	4.9	6.7	1.8	4
10_23	3.7	6.4	2.7	0
10_24	3.4	5.2	1.8	0
10_25	0.6	1.5	0.9	0
10_26	0.6	3	2.4	0
10_27	6.1	7.3	1.2	trace
10_28	5.2	6.4	1.2	32
10_29	3.7	4.9	1.2	0
10_30	4.3	6.1	1.8	557
10_31	5.2	6.7	1.5	0
10_32	4.6	6.1	1.5	147
10_33	5.5	7.3	1.8	0
10_34	2.4	4	1.6	0
10_35	4.3	5.2	0.9	0
10_36	6.4	9.1	2.7	32
10_37	5.8	8.2	2.4	trace
10_38	4.3	7	2.7	29
10_39	3.7	7	3.3	0
10_40	4	6.4	2.4	0
10_41	0.9	2.1	1.2	0
10_42	3.7	4.6	0.9	55
10_43	4	4.9	0.9	trace
10_44	3.4	5.8	2.4	trace
10_45	2.1	3.4	1.3	0
10_46	2.7	4.9	2.2	trace
10_47	1.5	5.5	4	0
10_48	0.9	4	3.1	trace
10_49	2.7	5.2	2.5	4
10_50	4	5.5	1.5	0
10_51	7	10.7	3.7	3
10_52	1.8	5.2	3.4	0
10_53	5.5	6.7	1.2	0
10_54	2.4	6.1	3.7	52
10_55	0	0	0	0
10_56	4.3	5.8	1.5	57

Hole_ID	From (m)	To (m)	Thickness (m)	Gold weight (mg)
10_57	5.5	7	1.5	0
10_58	5.8	7.6	1.8	7
10_59	5.8	7.3	1.5	12
10_60	3	5.5	2.5	0
10_61	4.9	6.7	1.8	6
10_62	4.6	6.4	1.8	0
Q01	0	0.6	0.6	20
Q02	1.2	1.8	0.6	100
Q03	0.6	4	3.4	40
Q04	0	1.2	1.2	0
Q05	3.4	4.3	0.9	20
Q06	3.4	4.3	0.9	80
Q07	0	0.6	0.6	0
Q08	0	2.1	2.1	10
Q09	5.5	6.7	1.2	150
Q10	3.4	5.8	2.4	10
Q11	0	7	7	0
Q12	0	6.4	6.4	20
Q13	6.1	7	0.9	0
Q14	3	4	1	0
Q15	1.2	3	1.8	0
Q16	0	7.3	7.3	40
Q17	8.8	9.8	1	0
Q18	0	9.8	9.8	150
Q19	0	10.4	10.4	0
Q20	0	11	11	0
Q21	0	10.7	10.7	0
Q22	8.2	8.8	0.6	0
Q23	10.4	11.9	1.5	0
Q24	10.4	11.4	1	0
Q25	10.1	11.3	1.2	0
Q26	7.3	9.8	2.5	60
Q27	6.1	7.2	1.1	0
Q28	5.8	7	1.2	0
Q29	0	6.1	6.1	0
Q30	0	9.5	9.5	0
Q31	0	5.2	5.2	0
Q32	0	3.7	3.7	0
Q33	0	4.9	4.9	0
Q34	6.1	7	0.9	0
Q35	7	7.9	0.9	0

Hole_ID	From (m)	To (m)	Thickness (m)	Gold weight (mg)
Q36	0	6.1	6.1	0
Q37	0	5.2	5.2	0
Q38	4.9	6.9	2	60
Q39	4.9	6.9	2	30

### 2010 Drill Logs

Hole ID	LITHOLOGY	From (m)	To (m)	Description
10_1	MUCK	0	0.9	Ice
10_1	MUCK	0.9	3.4	muck little gravel mix
10_1	GRAVEL	3.4	4.6	soft gravel
10_1	GRAVEL	4.6	5.5	gravel medium hard soft
10_1	GRAVEL	5.5	5.8	hard gravel
10_1	S_BEDROCK	5.8	6.4	soft bedrock
10_1	H_BEDROCK	6.4	6.7	bedrock medium hard
10_1	S_BEDROCK	6.7	8.5	soft bedrock damp
10_1	H_BEDROCK	8.5	9.1	bedrock medium hard green
10_2	MUCK	0	1.2	ice
10_2	MUCK	1.2	1.5	muck little gravel mix
10_2	GRAVEL	1.5	3.4	gravel medium hard
10_2	MUCK	3.4	4.3	soft muck
10_2	GRAVEL	4.3	5.2	soft gravel bedrock slide
10_2	S_BEDROCK	5.2	6.1	broken bedrock medium hard damp
10_2	H_BEDROCK	6.1	7	bedrock medium hard dry green
10_3	MUCK	0	1.5	ice
10_3	MUCK	1.5	1.8	muck water
10_4	MUCK	0	1.5	ice
10_4	MUCK	1.5	1.8	muck
10_4	GRAVEL	1.8	3.4	gravel medium hard
10_4	GRAVEL	3.4	4	soft gravel
10_4	GRAVEL	4	4.3	gravel hard boulder
10_4	S_BEDROCK	4.3	7	soft broken bedrock damp
10_4	H_BEDROCK	7	7.9	bedrock medium hard green
10_5	MUCK	0	0.9	ice
10_5	GRAVEL	0.9	2.4	gravel medium hard
10_5	MUCK	2.4	3.4	muck

10_5	GRAVEL	3.4	3.7	gravel hard
10_5	GRAVEL	3.7	4	soft gravel
10_5	MUCK	4	5.2	muck
10_5	GRAVEL	5.2	6.1	hard gravel
10_5	S_BEDROCK	6.1	7.6	soft bedrock green
10_6	MUCK	0	1.2	ice
10_6	MUCK	1.2	2.4	muck
10_6	GRAVEL	2.4	2.7	hard gravel
10_6	GRAVEL	2.7	3.7	soft gravel
10_6	GRAVEL	3.7	4.6	gravel medium hard
10_6	GRAVEL	4.6	6.1	soft gravel dump
10_6	S_BEDROCK	6.1	7	soft bedrock green
10_7	MUCK	0	1.2	ice
10_7	MUCK	1.2	1.5	muck
10_7	GRAVEL	1.5	2.7	medium hard gravel
10_7	MUCK	2.7	6.7	muck
10_7	GRAVEL	6.7	7	hard gravel
10_7	H_BEDROCK	7	7.9	bedrock medium hard green
10_8	MUCK	0	4.9	frozen muck
10_8	GRAVEL	4.9	5.5	bedrock slide gravel soft
10_8	H_BEDROCK	5.5	6.1	bedrock medium hard
10_8	H_BEDROCK	6.1	8.5	bedrock hard green
10_9	MUCK	0	0.9	ice
10_9	MUCK	0.9	1.8	muck water
10_10	MUCK	0	0.6	ice
10_10	MUCK	0.6	2.1	muck
10_10	MUCK	2.1	2.4	thawed water
10_11	MUCK	0	1.8	frozen muck
10_11	MUCK	1.8	2.4	thawed muck water
10_12	MUCK	0	0.9	frozen muck
10_12	GRAVEL	0.9	2.4	gravel medium hard
10_12	GRAVEL	2.4	5.5	soft gravel
10_12	H_BEDROCK	5.5	6.1	broken bedrock
10_12	S_BEDROCK	6.1	6.7	soft bedrock
10_12	H_BEDROCK	6.7	7	bedrock medium hard green
10_13	MUCK	0	1.5	ice
10_13	MUCK	1.5	1.8	frozen muck
10_13	MUCK	1.8	2.4	thawed muck
10_13	MUCK	2.4	4	ice water
10_14	GRAVEL	0	0.6	frozen gravel

10_14	MUCK	0.6	0.9	thawed gravel water
10_15	MUCK	0	1.8	ice
10_15	MUCK	1.8	3	frozen muck
10_15	MUCK	3	4	thawed muck
10_16	GRAVEL	0	0.9	hard gravel
10_16	GRAVEL	0.9	3	soft gravel
10_16	GRAVEL	3	4.3	gravel medium hard
10_16	GRAVEL	4.3	4.6	soft gravel
10_16	S_BEDROCK	4.6	6.4	soft bedrock green
10_17	MUCK	0	0.9	ice
10_17	MUCK	0.9	2.4	frozen muck
10_17	MUCK	2.4	2.7	thawed muck
10_17	MUCK	2.7	3	frozen muck
10_17	GRAVEL	3	4	gravel medium hard
10_17	S_BEDROCK	4	7	soft bedrock
10_18	MUCK	0	0.9	ice
10_18	OVERBURDEN	0.9	2.4	O.B
10_19	MUCK	0	0.9	ice
10_19	OVERBURDEN	0.9	2.7	O.B
10_19	GRAVEL	2.7	5.8	Gravel
10_19	BEDROCK	5.8	6.4	Bedrock
10_20	OVERBURDEN	0	2.7	O.B
10_20	GRAVEL	2.7	4.3	gravel slide
10_21	OVERBURDEN	0	3.4	O.B
10_21	GRAVEL	3.4	6.4	gravel
10_21	BEDROCK	6.4	7	bedrock
10_22	MUCK	0	1.5	ice
10_22	OVERBURDEN	1.5	4.9	O.B
10_22	GRAVEL	4.9	6.7	gravel
10_22	BEDROCK	6.7	7.9	bedrock
10_23	MUCK	0	1.5	ice
10_23	OVERBURDEN	1.5	3.7	O.B
10_23	GRAVEL	3.7	6.4	gravel
10_23	BEDROCK	6.4	7.9	bedrock
10_24	OVERBURDEN	0	3.4	overburden
10_24	GRAVEL	3.4	5.2	gravel
10_25	OVERBURDEN	0	0.6	O.B
10_25	GRAVEL	0.6	1.5	gravel
10_26	OVERBURDEN	0	0.6	O.B
10_26	GRAVEL	0.6	3	gravel slide

10_27	OVERBURDEN	0	6.1	O.B
10_27	GRAVEL	6.1	7.3	gravel
10_27	BEDROCK	7.3	8.2	bedrock
10_28	OVERBURDEN	0	5.2	O.B
10_28	GRAVEL	5.2	6.4	gravel
10_28	BEDROCK	6.4	7.3	bedrock
10_29	MUCK	0	1.5	ice
10_29	OVERBURDEN	1.5	3.7	O.B
10_29	GRAVEL	3.7	4.9	gravel
10_29	BEDROCK	4.9	5.5	bedrock
10_30	MUCK	0	1.5	ice
10_30	OVERBURDEN	1.5	4.3	O.B
10_30	GRAVEL	4.3	6.1	gravel
10_30	BEDROCK	6.1	6.7	bedrock
10_31	MUCK	0	0.6	ice
10_31	OVERBURDEN	0.6	5.2	O.B
10_31	GRAVEL	5.2	6.7	gravel
10_31	BEDROCK	6.7	7.3	bedrock
10_32	MUCK	0	1.5	ice
10_32	OVERBURDEN	1.5	4.6	O.B
10_32	GRAVEL	4.6	6.1	gravel
10_32	BEDROCK	6.1	7	bedrock
10_33	MUCK	0	1.8	ice
10_33	OVERBURDEN	1.8	5.5	O.B
10_33	GRAVEL	5.5	7.3	gravel
10_33	BEDROCK	7.3	7.6	bedrock
10_34	OVERBURDEN	0	2.4	O.B
10_34	GRAVEL	2.4	4	gravel
10_34	BEDROCK	4	4.3	bedrock
10_35	OVERBURDEN	0	4.3	O.B
10_35	GRAVEL	4.3	5.2	gravel
10_36	OVERBURDEN	0	6.4	O.B
10_36	GRAVEL	6.4	9.1	gravel
10_36	BEDROCK	9.1	11	bedrock
10_39	MUCK	0	0.6	ice
10_39	OVERBURDEN	0.6	3.7	O.B
10_39	GRAVEL	3.7	7	gravel
10_39	BEDROCK	7	7.6	bedrock
10_40	OVERBURDEN	0	4	O.B
10_40	GRAVEL	4	6.4	gravel



10_40	BEDROCK	6.4	7	bedrock
10_41	OVERBURDEN	0	0.9	O.B
10_41	GRAVEL	0.9	2.1	gravel
10_42	OVERBURDEN	0	3.7	O.B
10_42	GRAVEL	3.7	4.6	gravel
10_42	BEDROCK	4.6	5.2	bedrock
10_43	OVERBURDEN	0	4	O.B
10_43	GRAVEL	4	4.9	gravel
10_43	BEDROCK	4.9	5.2	bedrock
10_44	OVERBURDEN	0	3.4	O.B
10_44	GRAVEL	3.4	5.8	gravel
10_44	BEDROCK	5.8	6.1	bedrock
10_45	OVERBURDEN	0	2.1	O.B
10_45	GRAVEL	2.1	3.4	gravel
10_45	BEDROCK	3.4	3.7	bedrock
10_46	OVERBURDEN	0	2.7	O.B
10_46	GRAVEL	2.7	4.9	gravel
10_46	BEDROCK	4.9	5.8	bedrock
10_47	OVERBURDEN	0	1.5	O.B
10_47	GRAVEL	1.5	5.5	gravel
10_47	BEDROCK	5.5	10.7	bedrock
10_48	OVERBURDEN	0	0.9	O.B
10_48	GRAVEL	0.9	4	gravel
10_48	BEDROCK	4	4.9	bedrock
10_49	OVERBURDEN	0	2.7	O.B
10_49	GRAVEL	2.7	5.2	gravel
10_49	BEDROCK	5.2	6.4	bedrock
10_50	OVERBURDEN	0	4	O.B
10_50	GRAVEL	4	5.5	gravel
10_50	BEDROCK	5.5	5.8	bedrock
10_51	OVERBURDEN	0	7	O.B
10_51	GRAVEL	7	10.7	gravel
10_51	BEDROCK	10.7	11	bedrock
10_52	OVERBURDEN	0	1.8	O.B
10_52	GRAVEL	1.8	5.2	gravel
10_52	BEDROCK	5.2	5.8	bedrock
10_53	MUCK	0	0.6	ice
10_53	OVERBURDEN	0.6	5.5	O.B
10_53	GRAVEL	5.5	6.7	gravel
10_53	BEDROCK	6.7	8.2	bedrock

<b>10_54</b>	OVERBURDEN	0	2.4	O.B
<b>10_54</b>	GRAVEL	2.4	6.1	gravel
<b>10_54</b>	BEDROCK	0	3	bedrock
<b>10_56</b>	OVERBURDEN	0	4.3	O.B
<b>10_56</b>	GRAVEL	4.3	5.8	gravel
<b>10_56</b>	BEDROCK	5.8	7	bedrock

## APPENDIX D - Statement of Costs and Receipts