

DAN KLIPPERT

**2013  
TARGET EVALUATION  
OF PLACER DEPOSITS IN THE  
SULPHUR CREEK AREA,  
YUKON TERRITORY**

Dan Klippert

Location: 63° 44' N 138° 52' W  
NTS: 115 O15  
Mining District: Dawson, YT  
Date: January 26, 2014

## SUMMARY

This report describes trenching and drilling conducted near Sulphur Creek south of Dawson in the Dawson mining district. The program was conducted from May 28 to September 25, 2013 to evaluate the potential of placer deposits in the Sulphur Creek area.

The trenching work was performed by Dan Klippert himself due to a shortage of reliable, experienced personnel.

The grades of gold found in test panning trenches 3, 4 and 5 were moderately encouraging however the bulk sample proved very poor. Possibly from underground streams creating a sloppy bedrock sample.

The drilling was carried out by Dan Klippert, Sylvain Fleurant the drilling contractor and his helper. All of the holes were 100% vertical drilled over the deepest locations of the two largest channels predicted by the science of resistivity directly on both lines close to stakes placed by Arctic Geophysics and confirmed by GPS line.

After one day with shockingly bad results the drilling was postponed. It was terribly disappointing for me and the contractor to discover that there were no alluvial channels at all only barren bedrock.

Due to the lateness and the misleading resistivity results no more resistivity was requested. Until some explanation for the problem was delivered there really was no reason for more lines. A lot of time, money and expectation was lost to the interpretation.

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## 1.0 INTRODUCTION

This report describes exploration, trenching and drilling conducted near Sulphur Creek in the Dawson Mining District, Yukon Territory. This work was conducted to evaluate the potential of placer deposits in the Sulphur Creek area.

## 2.0 LOCATION AND ACCESS

The Sulphur Creek Property is located on Sulphur Creek in the Dawson Mining District and is centred at approximately 63° 44' N 138° 52' W (Figure 1). The property is accessible by road during the summer months using the following route:

From	To	Distance (km)	Remarks
Dawson	Hunker Creek Road	14.3	Klondike Highway
Hunker Creek Road	Hunker Summit	26.0	Maintained road
Hunker Summit	Sulphur Creek Road	3.2	Maintained road
Sulphur Creek Road	North boundary of the property above Meadow Creek	8.6	Maintained road

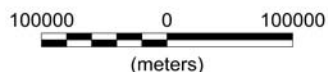
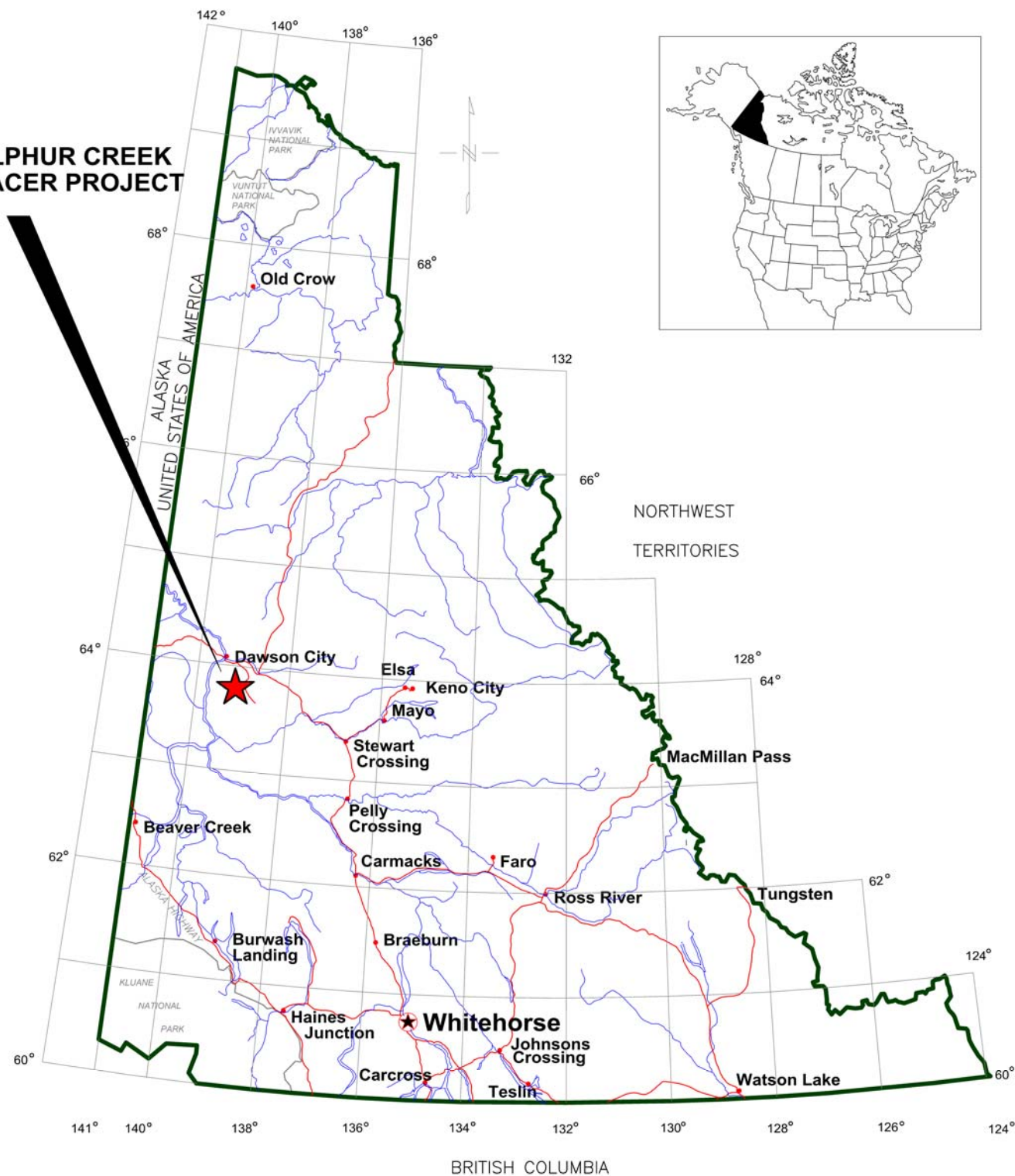
## 3.0 PROPERTY DESCRIPTION

The Sulphur Creek Property consists of 30 Placer Claims staked under the Yukon Placer Mining Act and recorded in the Dawson Mining District. The claim locations are shown in Figure 2. The property is divided into two blocks - the Upper Sulphur and Lower Sulphur Blocks. Property information for the Upper Sulphur Block is summarized below. All claims have been secured by the owner through to Nov 10, 2014. The summary below is taken from the Yukon Mining Recorders website as posted on Jan 26, 2013.

([www.yukonminingrecorder.ca](http://www.yukonminingrecorder.ca))

Claim name	Record Number	Expiry Date
23 AD	433	10 Nov 2014

# SULPHUR CREEK PLACER PROJECT



DAN KLIPPERT

## SULPHUR CREEK PLACER PROJECT Figure 1. Property Location Map

NTS: 115 O10 & 15

Datum: NAD83

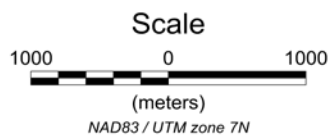
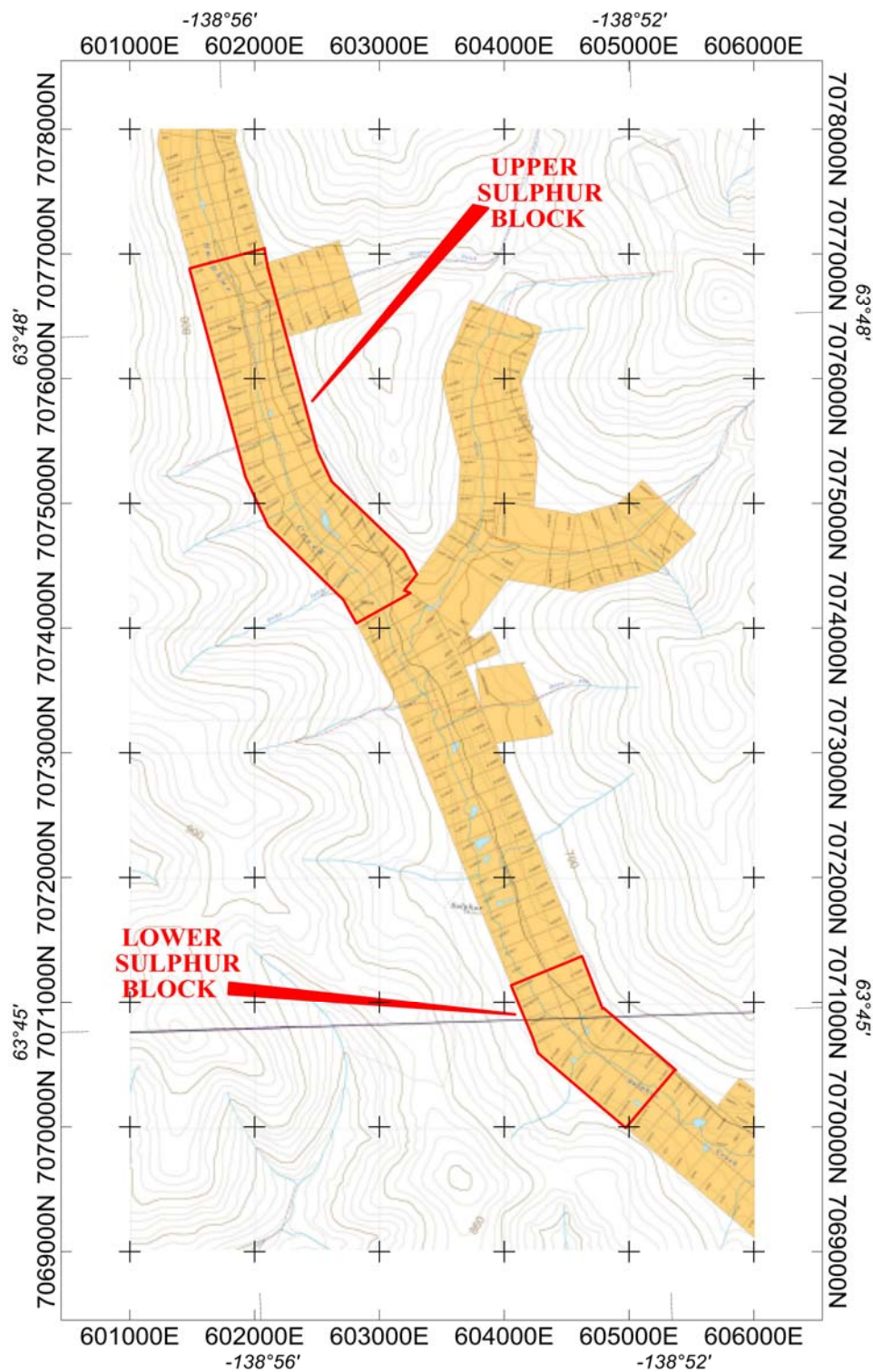
Job: DKE-14508-YT

Mining District: Dawson

Projection: Albers - Yukon

Date: 25 Jan 14

**AURORA GEOSCIENCES LTD.**



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**SULPHUR CREEK PROJECT**  
**Figure 2. Claim Location Map**

NTS: 115 O 10 & 15  
 Datum: NAD83  
 Job: DKE-14508-YT

Mining District: Dawson  
 Projection: UTM Zone 7N  
 Date: 25 Jan 2014

**AURORA GEOSCIENCES LTD.**

24 AD	429	10 Nov 2014
25 AD	32079	10 Nov 2014
Sulphur 1 - 16	P 09685 - P 09700	10 Nov 2014
Sulphur Gold 17	P 11273	10 Nov 2014
Sulphur Gold 18	P 11297	10 Nov 2014

## 4.0 GEOLOGY

Figure 3 illustrates the bedrock geology in the area of the Sulphur Creek Property, extracted from Lowry *et. al.* (2002). The property is underlain by the rocks of the Klondike Schist Terrain, the rock unit which underlies all of the major placer creeks in the Klondike placer district and is the ultimate source for placer gold in the district.

LeBarge (2002) summarizes the surficial and placer geology of Sulphur Creek as being notable for the absence of large bench deposits and the fact that it is deeply incised into the surrounding topography.

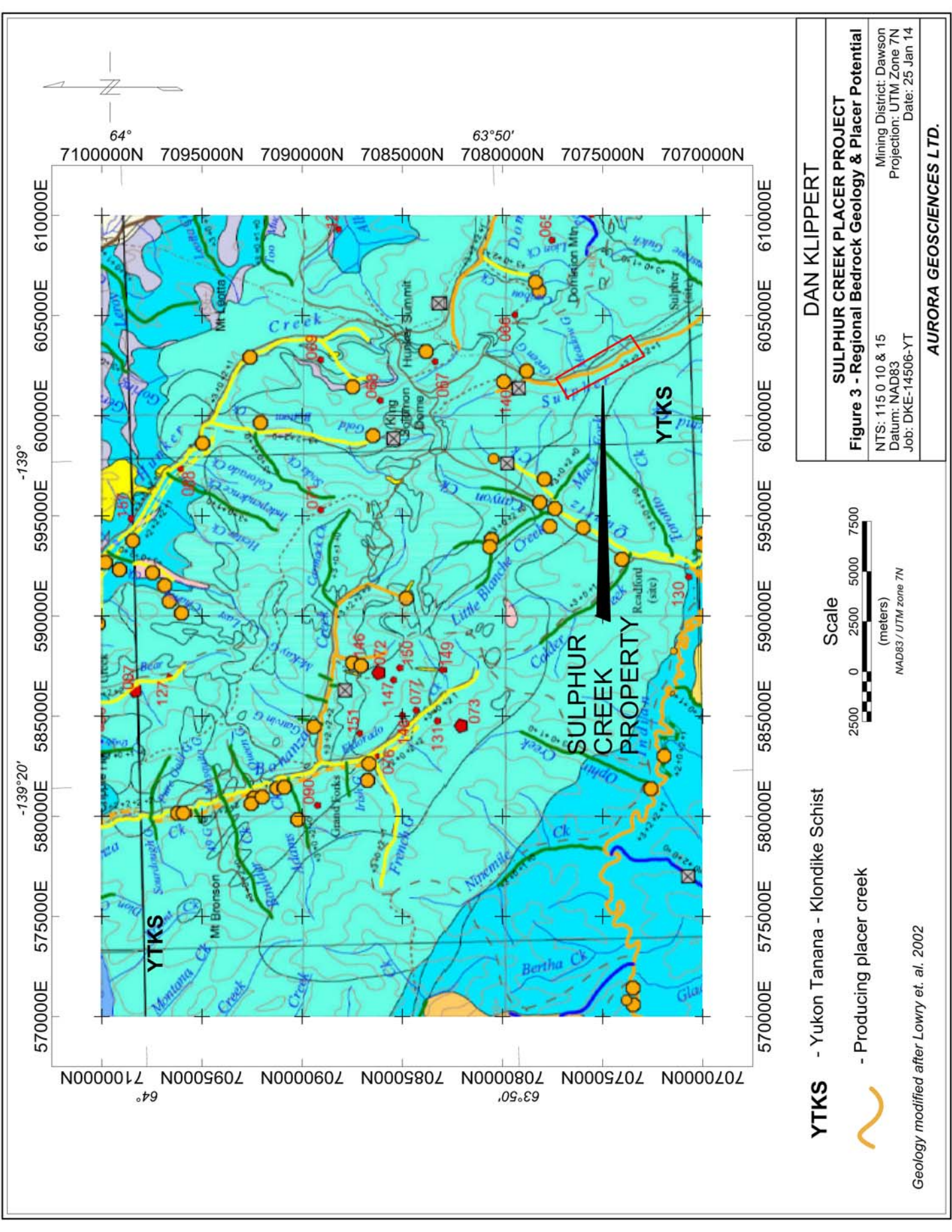
## 5.0 DESCRIPTION OF WORK PROGRAM

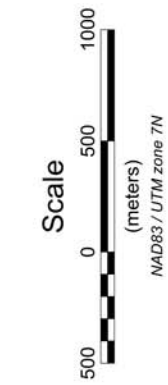
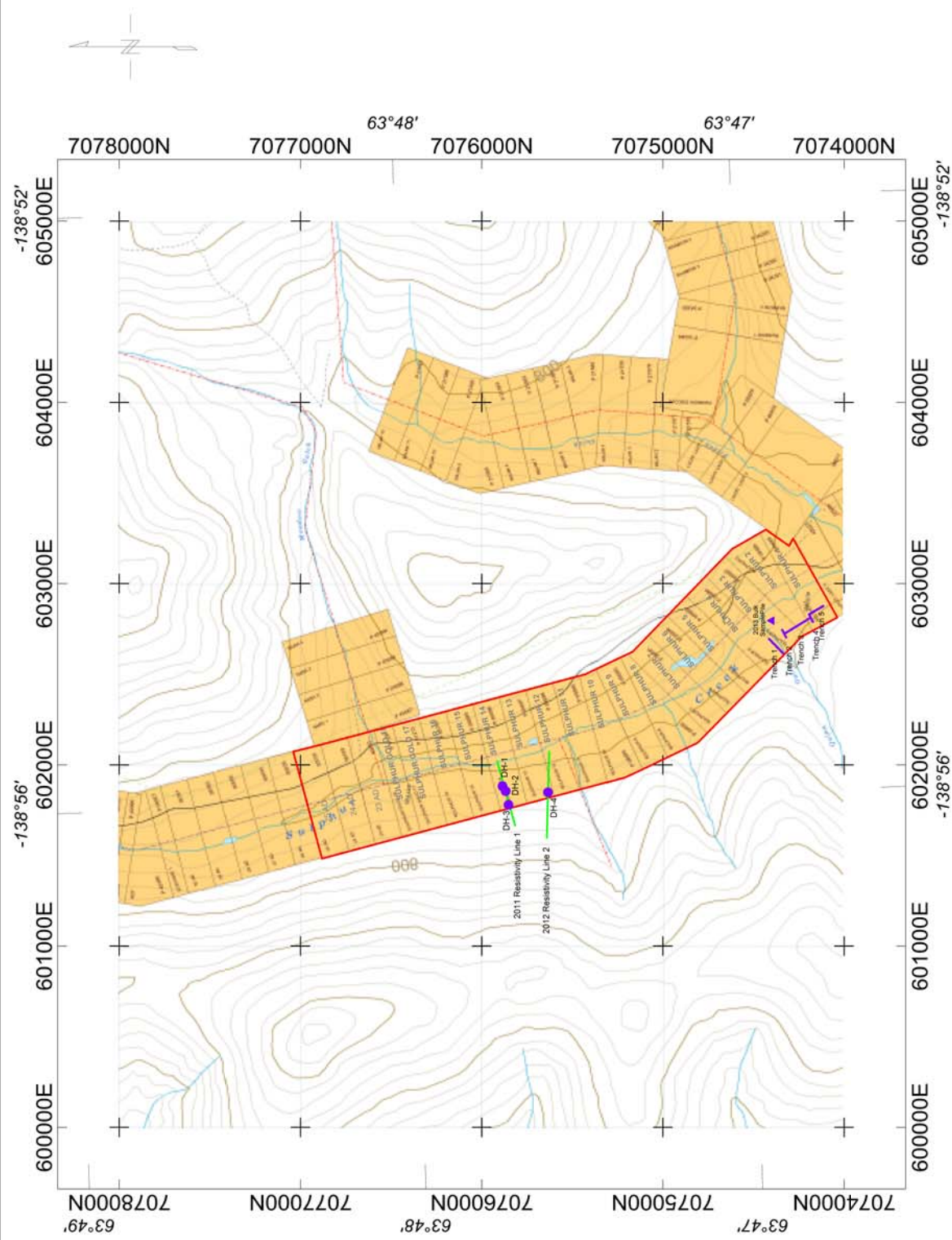
This section describes the excavation, drilling and sampling conducted in the project area between May 28, 2013 and September 25, 2013

The work program was carried out using the following equipment:

<u>Equipment:</u>	D8K Caterpillar Dozer c/w 4bl ripper 2004 330 Hitachi Excavator c/w digging bucket, clean up bucket and ripper 2007 450 DLC Hitachi Excavator c/w digging bucket, clean up bucket and ripper Kenworth 14 yd Dump Truck 4 yard Michigan Loader R/T Sluice plant c/w trommel hydraulic riffles and 35 foot stacker 6 inch diesel Isusu pressure pump 6 inch 160 hp diesel self priming sump pump 4x4 Duramax Diesel 4x4 quad
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## 5.1 Trench Sampling Procedures

Five test trenches were excavated on the four bottom claims of the upper block of the Sulphur Creek Program. Each trench was stripped and ripped with a D8K Dozer down to extreme frost and was let thaw for a few days while the next trench was stripped and ripped to allow for further depth. The 330 Hitachi excavator and the 450 Hitachi excavator were then used to excavate, bail and stage the waste from the test areas.

## 5.2 Trench Locations

The location and designation of the 2013 trenches can be seen on Figure 5.

## 5.3 Trench Sampling Results

Trench 1: Excavated 400 feet long 30 – 50 feet wide and 25 feet deep to bedrock along the Quinn Gulch draw.

Trench 2: Excavated 200 feet long 50 feet wide and 15 feet deep.

Trench 3: Excavated along the old cut face and was 300 feet long 30 feet wide and 10 – 15 feet deep with test panning every 30 feet along the face of the stream gravel uncovered.

### ***TRENCH 3 RESULTS***

<b><i>Sample</i></b>	<b><i>Gold Corse</i></b>	<b><i>Gold Colors</i></b>	<b><i>Sulphides</i></b>	<b><i>Black Sand</i></b>
Test 1		4		very little and fine (downstream – lower end of trench)
Test 2		3		very little and fine
Test 3		11		very little and fine
Test 4		2		coarse and more abundant
Test 5		4		coarse and more abundant
Test 6		0		coarse and more abundant
Test 7		8	fine	coarse and more abundant





Test 8		5	fine	coarse and more abundant
Test 9	1	14	abundant	abundant and coarse
Test 10		3		abundant and coarse (upstream)

Trench 4: Excavated 200 feet long 40 - 50 feet wide and 30 - 40 feet deep along the face of the old cut. There was six panned samples taken.

#### **TRENCH 4 RESULTS**

<b>Sample</b>	<b>Gold Corse</b>	<b>Gold Colors</b>	<b>Sulphides</b>	<b>Black Sand</b>
Test 1		5	abundant	Coarse and abundant (west end of trench)
Test 2		7	abundant	coarse and abundant
Test 3		12	abundant	coarse and abundant
Test 4		0	0	very little and fine
Test 5		3	0	very little and fine
Test 6	1	8	0	very little and fine

Trench 5: Excavated 200 feet long 50 - 75 feet wide at surface about 10 feet wide at the gravel base and 30 - 40 feet deep. All of the frozen muck ripped had to be bailed and re bailed as many as ten times with the excavator upstream to a waste site. The trench was ripped and cleared to gravel and six pits were excavated to bedrock through 8 feet of gravel test panned at 50 foot intervals.

#### **TRENCH 5 RESULTS**

<b>Sample</b>	<b>Gold Corse</b>	<b>Gold Colors</b>	<b>Sulphides</b>	<b>Black Sand</b>
Test 1		5	0	Fine and abundant (downstream end of trench)
Test 2		3	0	coarse and abundant
Test 3		6	0	coarse and abundant

Test 4		8	0	very little and fine
Test 5	1	13	ample	very little and fine
Test 6	1	6	0	(upstream end of trench)

A bulk sample was excavated and then hauled up out of the area to the sluice plant with the 450 Hitachi and the 14 yard Kenworth dump truck. The bulk sample was excavated between test areas 5 and 6 in Trench 5. The bedrock gravel hauled up from the bottom of the pit was then sluiced. Unfortunately the 6 inch diesel self primeing sump pump could not drain all the water from the pit because of excessive seepage from underground streams.


#### **5.4 Drill Procedures**

Drilling was conducted on the 2011 & 2012 resistivity lines. The resistivity information seemed to be totally imaginary. Two suspected channels on the resistivity lines ranged from 30 to 70 feet deep. The drill program was postponed after bedrock was encountered just below the moss in all four holes.

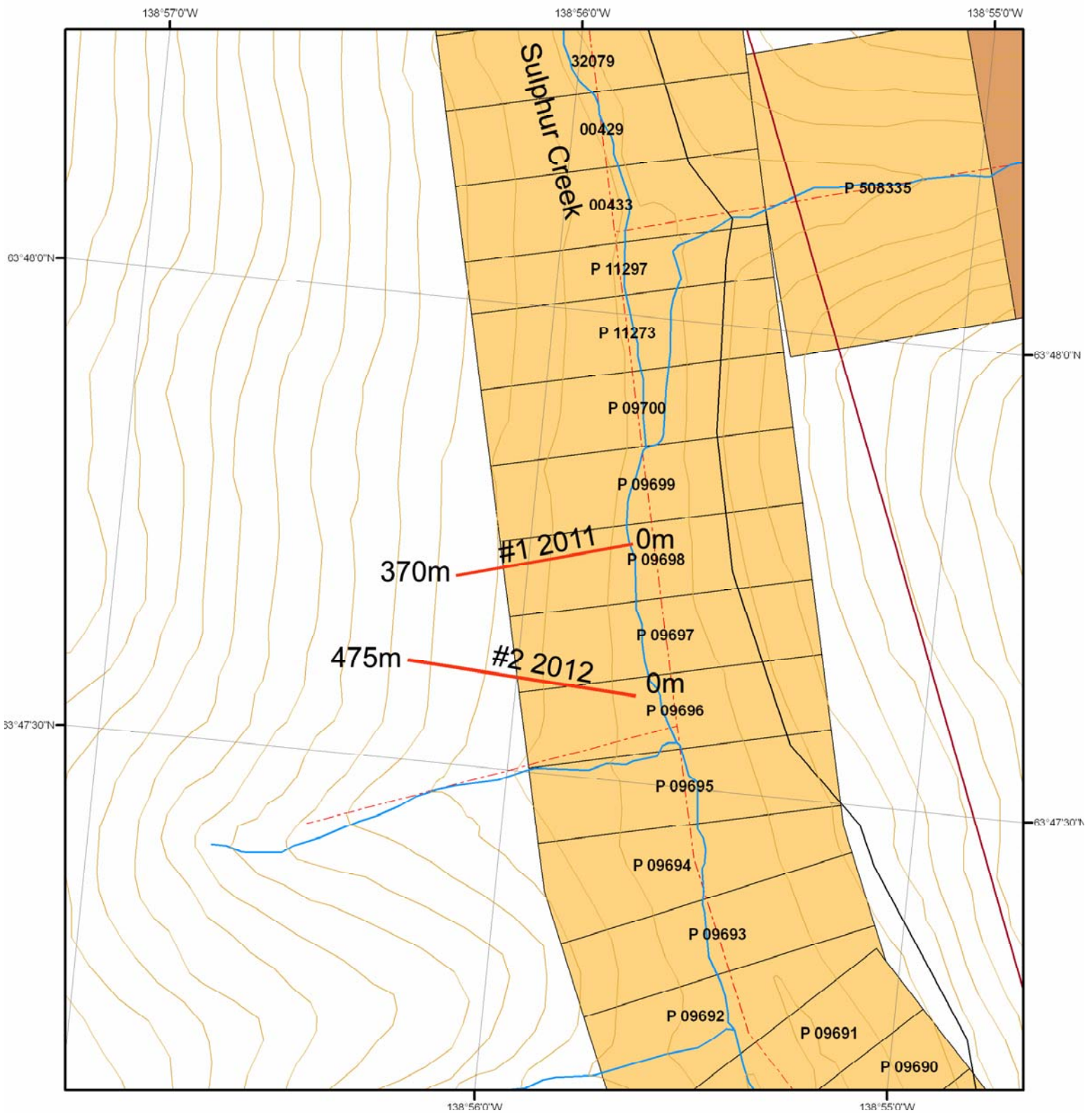
#### **5.5 Drill Hole Locations**

The location and designation of the 2013 Drill Holes can be seen on Figure 5.

## 5.6 Placer Drill Log

Placer DRILL LOG				
Date:	24-Sep-13	Time:	Driller:	Sylvain Fleurant
Type of Drill:		auger	Inside Diameter of Drill:	6 inch
Location:		Sulphur creek Map:115-o-15c		
		Lease or Grant Numbers: Claim P 09698 p 096996		
Drill Hole Number	Total Footage	Remarks: samples/results		
13-1	13ft	1ft thawed muck ( bedrock at 1ft ) 3ft soft thawed decompose bedrock brown 4ft soft thawed bedrock green 5ft frozen soft		
		bedrock green		
13-2	13ft	8ft soft thawed bedrock shist brown ( bedrock at 0ft ) 5ft frozen bedrock shist little quartz vein bown green		
13-3	8ft	8ft thawed soft bedrock shist brown		
13-4	8ft	2ft thawed mud ( bedrock at 2ft ) 6ft thawed bedrock shist green		
total	42ft	Date:	24-Sep-13	Signed (Driller or Representative)
				





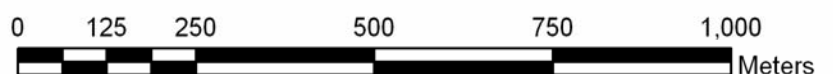
## Legend

- measuring line
- contour line
- water course
- water body
- road
- placer\_claims**
  - Active
  - Expired
- placer baseline

## Survey Map

115015 (Flat Creek)

1:10,000





## Sulphur Creek\_02

2D Resistivity, Schlumberger array

96 Electrodes, spacing 5m, Horizontal resolution 2.5m

Horizontal and vertical measure in [meter], Iteration error in [%]

The profile might show the layers up to 15% thicker than in reality.

Data acquisition: Stefan Ostermaier, 5h May 2012

Processing: Philipp Moll, 13th May 2012

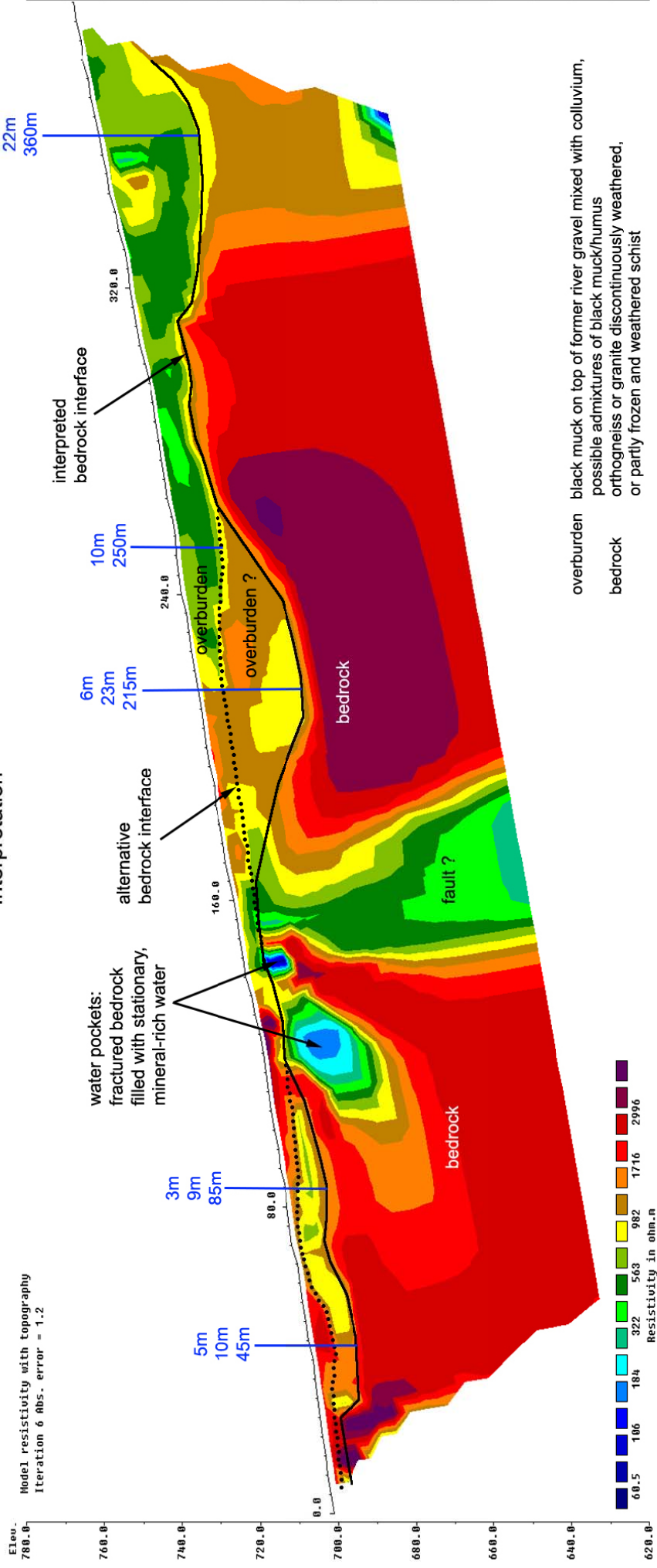
This interpretation of geophysical data should be verified with physical prospecting methods such as drilling, trenching, test pitting, or shafting.

## Arctic Geophysics Inc.

Geophysical Surveys • Prospecting • Consulting



## Interpretation



## 6.0 CONCLUSIONS

The results were very discouraging. The 100 yards sluiced produced 0.08 g of gold per cubic yard sluiced. The value per cubic yard moved would have to include the frozen mud ripped and hauled off as over burden. (30 to 40 feet)

This is well below other tests performed up stream of this site with similar test pan results. The poor results I suspect are related to the fact that the bedrock material was sloppy wet which resulted in gold loss in the pit excavation. The 6 inch 160 HP diesel trash pump could not drain the pit with the underground streams.

## 7.0 RECOMMENDATIONS

The 2013 drilling proved the resistivity to be completely incorrect. However, Arctic Geophysics has contacted me and has expressed their desire to come as soon as possible in 2014 to examine and address the problem with the two resistivity lines. I have been informed by one large scale miner that the resistivity lines he had performed with this company were extremely accurate. I hope that an answer can be found to help me and the future of this technology for exploration in the placer exploration and mining industry.

The test results from the test panning and bulk sample unfortunately proved or disproved very little.

Many areas within the properties will need more exploration to determine placer gold grades and to determine if there is enough mineable ground for a feasible, long term placer gold mining operation.

## REFERENCES CITED

- LeBarge, W.P. (compiler) 2002. Yukon Placer Database 2002 - Geology and mining activity of placer occurrences. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.
- Lowry, G., S. Deforest and P. Lipovsky 2002 Stewart River Placer Project Resource Appraisal Map (1:250,000 scale). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada. Open File 2002-6.

## **APPENDIX A. STATEMENT OF COSTS & RECEIPTS**


**JOB DKE-14508-YT SULPHUR CREEK****PROJECT LOG & EXPENDITURES**

<b>Daily Living Expenses</b>	
1 person for 100 days @ \$100 / day	\$10,000
<b>Logistical Support</b>	
ATCO Camp rental 100 days @ \$100 / day	\$10,000
Truck Rental: 100 days @ \$50 / day	\$5,000
<b>Equipment Rentals / Supplies</b>	
154 hrs D8K Dozer @ \$290 / hr	\$44,660
199 hrs 330 Excavator @ \$240 / hr	\$47,760
150 hrs 450 DLC Excavator @ \$250 / hr	\$37,500
40 hrs Kenworth D / Truck @ \$165 / hr	\$8,250
Processing Plant and Pumps	\$3,000
Auger Drilling	\$1,292
<b>Report Preparation</b>	
Aurora Geosciences	\$787
<b>Total</b>	<b>168,249</b>

These cost estimates are provided by D. Klippert.

# 11

**Bill TO:** Dan Klipper



## Auger Drilling

Sylvain Fleurant  
P.O. Box 404  
Dawson City, YT Y0B 1G0  
Ph/Fx: (867)993-5488    Cell (867)993-3583  
Email: [sfleurant@hotmail.com](mailto:sfleurant@hotmail.com)

Sylvain Fleurant  
P.O. Box 404  
Dawson City, YT Y0B 1G0  
Ph/Fx: (867)993-5488 Cell (867)993-3583  
Email:drillsf@hotmail.com

<b>Quantity</b>	<b>Description</b>	<b>Price</b>	<b>Amount</b>
3 hours	truckng & walking the drill	\$200.00	\$600.00
42ft	of 6 inch auger drilling	\$15.00	\$630.00
0	Carbide tooth	\$12.00	
0	hard surface artec 63	\$2,70	
0	hard surface artec 60	\$1.07	
	Subtotal		\$1,230.00
		GST 5%	\$61.50
<b>GST No: 123851651</b>		<b>Total</b>	<b>\$1,291.50</b>

**GST No: 123851651**

Total

	\$1,291.50
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**Make Checks Payable to Sylvain Fleurant**  
( payment due date of invoice)

**Thank You For Your Business**

Approved by		<b>Subtotal</b>	\$750.00
GST/HST No.	886365816	<b>GST/HST</b>	\$37.50
Bank Info: Bank ID #003, Transit #09879, Account #1013606, RBC Royal Bank.		<b>Total</b>	\$787.50
Please quote invoice # and amount paid when making payments by emailing <a href="mailto:accounting@aurorageosciences.com">accounting@aurorageosciences.com</a>			