

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Technical Report - Gravity Survey (Geophysics)

TOTAL COST: \$ 6,949.22

AUTHOR(S): Brian Jones

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): P-11-551

YEAR OF WORK: 2012

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Gravity Survey conducted from Oct 31, 2012 to Nov 2, 2012

Placer Claim Exploration and Development Work Submitted on November 7, 2012 - Event # 5415469

PROPERTY NAME: John Boyd Creek Placer Claim

CLAIM NAME(S) (on which the work was done): Tenure Numbers - 668383 and 555729

COMMODITIES SOUGHT: Placer Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Cariboo

NTS/BCGS: 93G / 01

LATITUDE: N53 ° 04 ' 54.5 " LONGITUDE: W122 ° 11 ' 15.4 " (at centre of work)

OWNER(S):

1) Brian Alexander Jones 2) _____

MAILING ADDRESS:

Box 5820, High River, Alberta T1V 1P3

OPERATOR(S) [who paid for the work]:

1) Brian Alexander Jones 2) _____

MAILING ADDRESS:

Box 5820, High River, Alberta T1V 1P3

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Placer Gold, Glacial Lag Deposits

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 2008 Assessment Report # 30341

2009 Assessment Report # 30907

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Selsmic _____			
Other Gravity Survey - 61 gravity stations		555729	\$6949.22
Airborne _____			
GEOCHEMICAL (number of samples analysed for...)			
Soil _____			
Silt _____			
Rock _____			
Other _____			
DRILLING (total metres; number of holes, size)			
Core _____			
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____			
PREPARATORY / PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
TOTAL COST:			\$6949.22

**TECHNICAL REPORT
JOHN BOYD CREEK PROPERTY
Placer Claim Tenure #555729 and 668383**

**TECHNICAL EXPLORATION WORK
GRAVITY SURVEY**

**CARIBOO MINING DIVISION, BRITISH COLUMBIA,
CANADA**

NTS 093G/01 – 1:50,000 Map

Centered Near
Latitude N53° 04' 54.5"; Longitude W122° 11' 15.4"

Author
**Brian Jones M.Sc.
APEGGA # 48925
APEGBC # 173032**

**BC Geological Survey
Assessment Report
33567**

**EXCEL GEOPHYSICS
Box 5056
302 Centre Street S
High River, Alberta, Canada
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**Prepared For
BRIAN JONES**

**Box 5820
High River, AB
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Date Submitted : February 1, 2013

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ATTACHMENTS

Final Report

1. 2012 John Boyd Creek Gravity Survey Technical Report.pdf

Digital Data

1. 2012 John Boyd Creek – Observed Gravity Data Listing.xlsx
2. 2012 John Boyd Creek – Bouguer Gravity Data Listing.xlsx

Images (full size maps in .pdf format)

1. 2012 Gravity Profile.pdf
2. Index Map.pdf
3. Color Elevation.pdf

1.0 SUMMARY

The John Boyd Creek property, covering approximately 2.1 square kilometers, is located in central British Columbia. The property is approximately 30 kilometers east of the city of Quesnel, B.C. and 50 kilometers west of the town of Wells, B.C. The closest community is the historical site of Cottonwood House Provincial Historical Park, which currently has no services. Brian Jones holds the claim for the John Boyd Creek property.

Excel Geophysics conducted technical exploration work from October 31 to November 2, 2012 on the John Boyd Creek property (placer claim #555729 and 668383). The technical work consisted of a gravity survey along the access road. The objective of the survey was to confirm the presence of an old channel which may be a site for placer gold deposits. Buried channels can be identified by a negative gravity signature if the channel was filled with sediment (due to the sediment having a lower density than the surrounding rock). The data was collected by Excel Geophysics field staff and processed by staff experts in the head office of Excel Geophysics.

The gravity survey was successful in detecting a potential channel and the survey will be expanded to define the geometry of the channel, and used in selecting drill targets.

2.0 INTRODUCTION

The purpose of this technical report is to report on the results and costs associated with the gravity survey performed by Excel Geophysics on the John Boyd Creek claim. Event # 5415469 recorded the technical exploration work performed in 2012.

Brian Jones is the owner of two adjacent claims in the John Boyd Creek area with Tenure numbers 555729 and 668383. Excel Geophysics conducted a gravity survey of 61 ground stations from October 31, 2012 to November 2, 2012 located on Tenure number 555729. Figure 1 shows a regional location map of the placer claims.

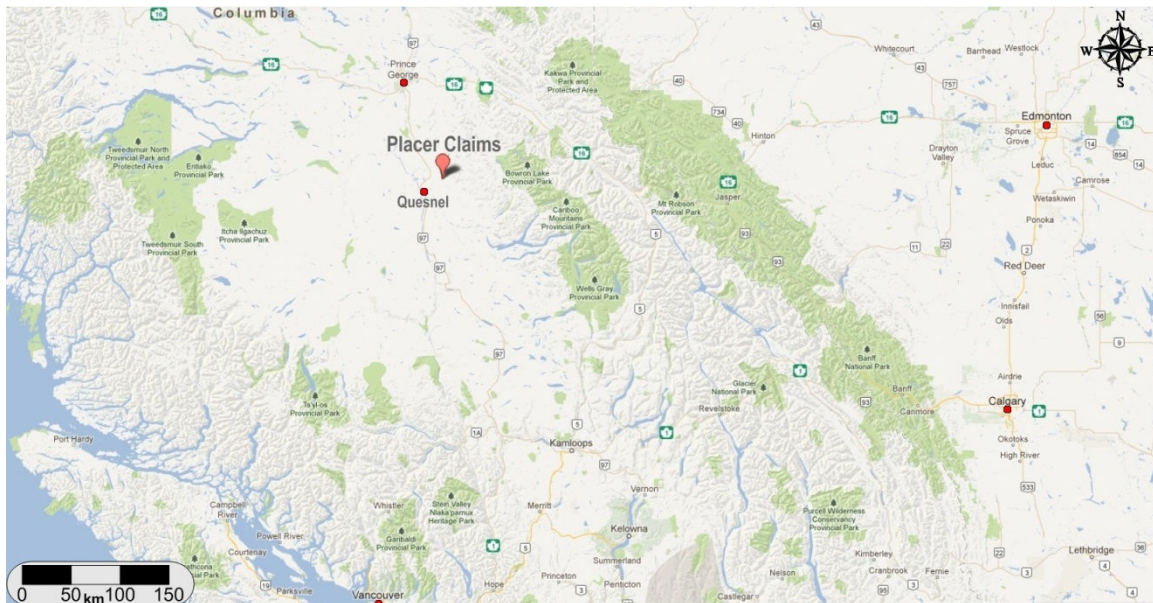


Figure 1. Regional Location Map.

3.0 PROPERTY DESCRIPTION

The John Boyd Creek property, covering approximately 2.1 square kilometers, is situated in the Cariboo Placer Mining Division of British Columbia, Canada. It is centered near N53° 04' 54.5" latitude and W122° 11' 15.4" longitude in 1:50,000 NTS map sheet 093G/01.

The area can be reached from the city of Quesnel, British Columbia via Highway 26 east to Cottonwood (an approximate 30 km drive), or from the community of Wells, British Columbia via Highway 26 west (an approximate 50 km drive). The access map from Quesnel is shown in Figure 2. Local gravel roads heading north from Cottonwood provide access to the John Boyd Creek property with several existing trails into the claims. Figure 3 shows the layout of the gravity stations along an access road into the claim.

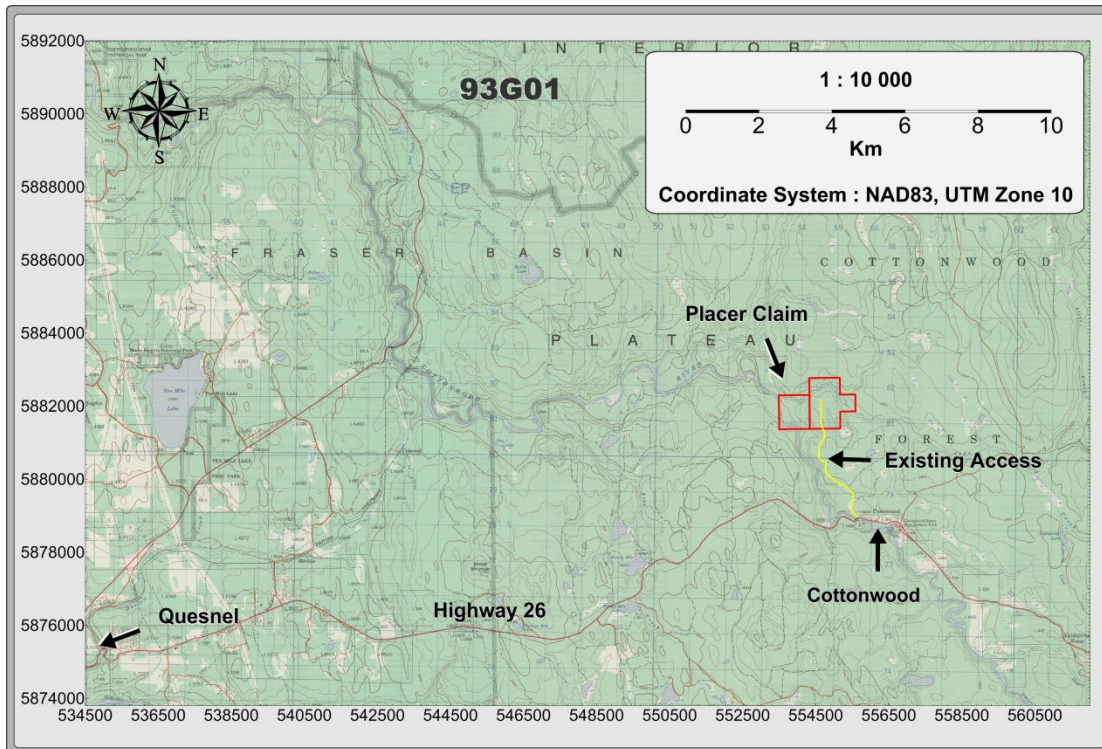


Figure 2. Access Map from Quesnel

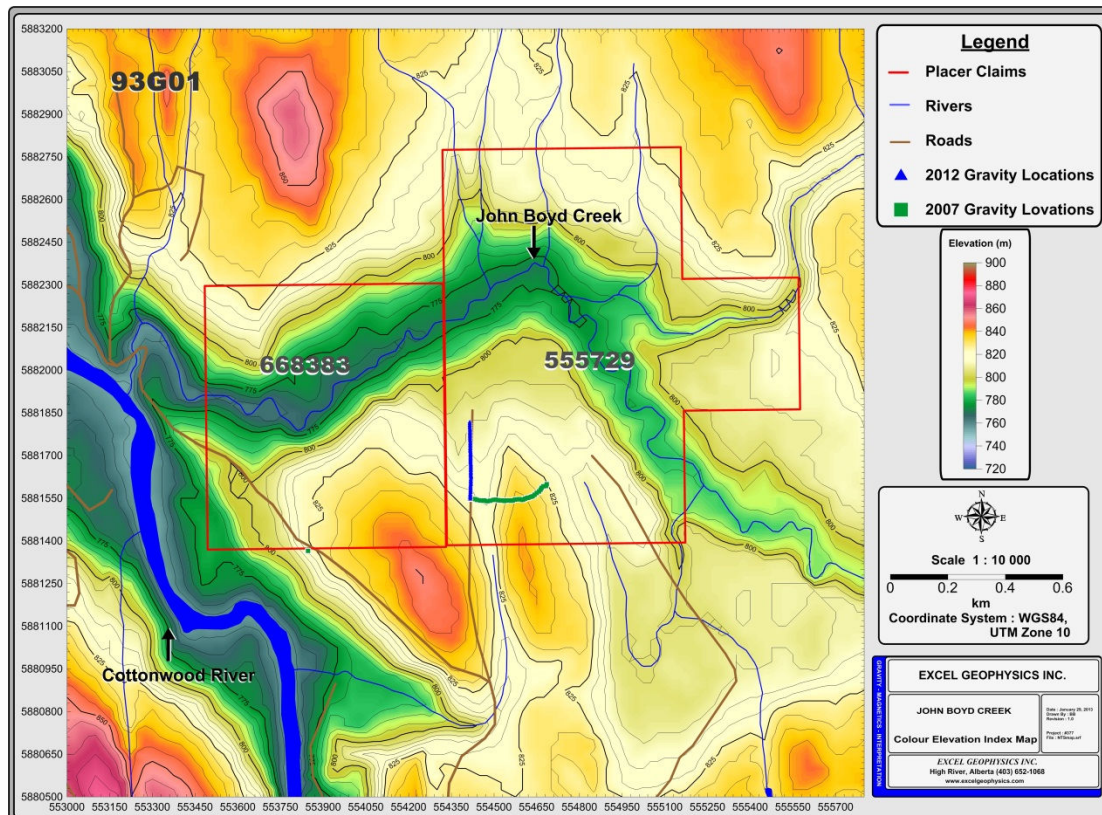


Figure 3. Survey Layout on Color Elevation Map

The placer cell claims are shown in Figure 4.

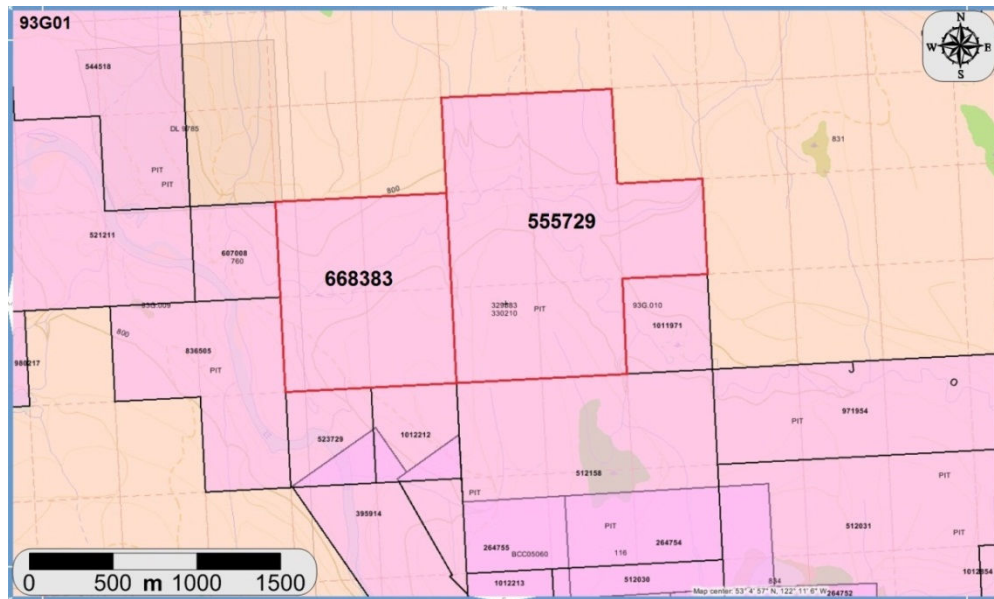


Figure 4. Tenure Claim Map

There are no signs of environmental liabilities within the current claim or immediately adjacent to the property boundaries. The property area is covered by low brush, mixed conifers and poplars. Windfall in this forest is common making traversing a line challenging. Recent logging is apparent to the north and east of the claim (Figure 5). By the size of the trees and bushes on the property, logging could have occurred in the late 1980s.

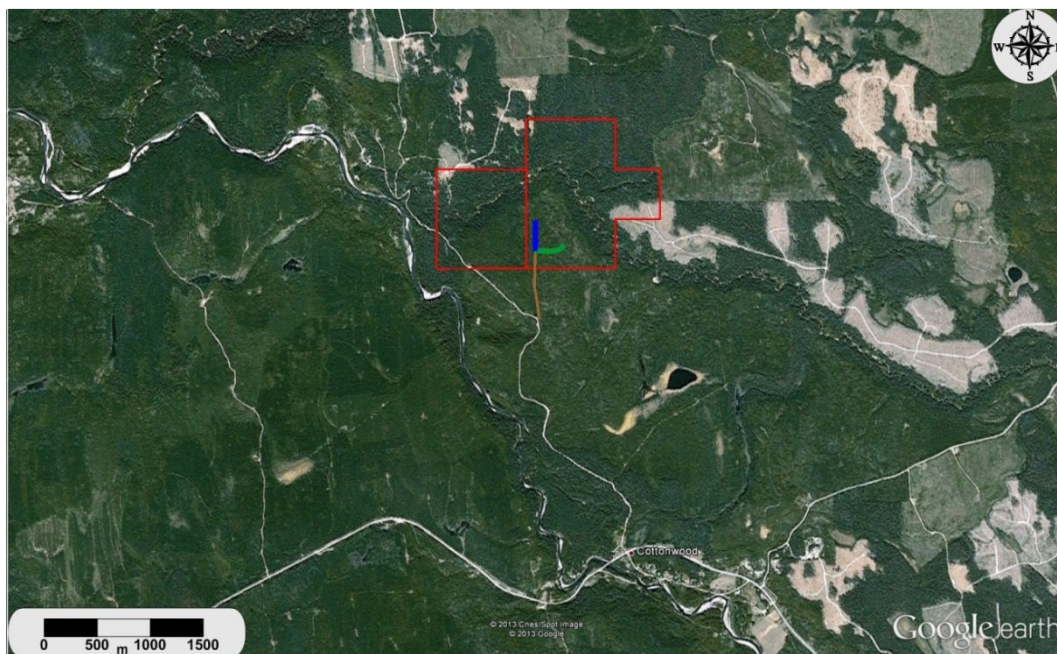


Figure 5. Google Earth Image

John Boyd Creek (Figure 6) runs in a steep narrow valley and is a small tributary of the Cottonwood River. It flows from east to west through both placer claims and merges with the Cottonwood one kilometer west of the claim boundary. The Cottonwood flows into the Frazer River. To the east, Alice and Mary Creek are tributaries of John Boyd Creek (Figure 7).



Figure 6. John Boyd Creek

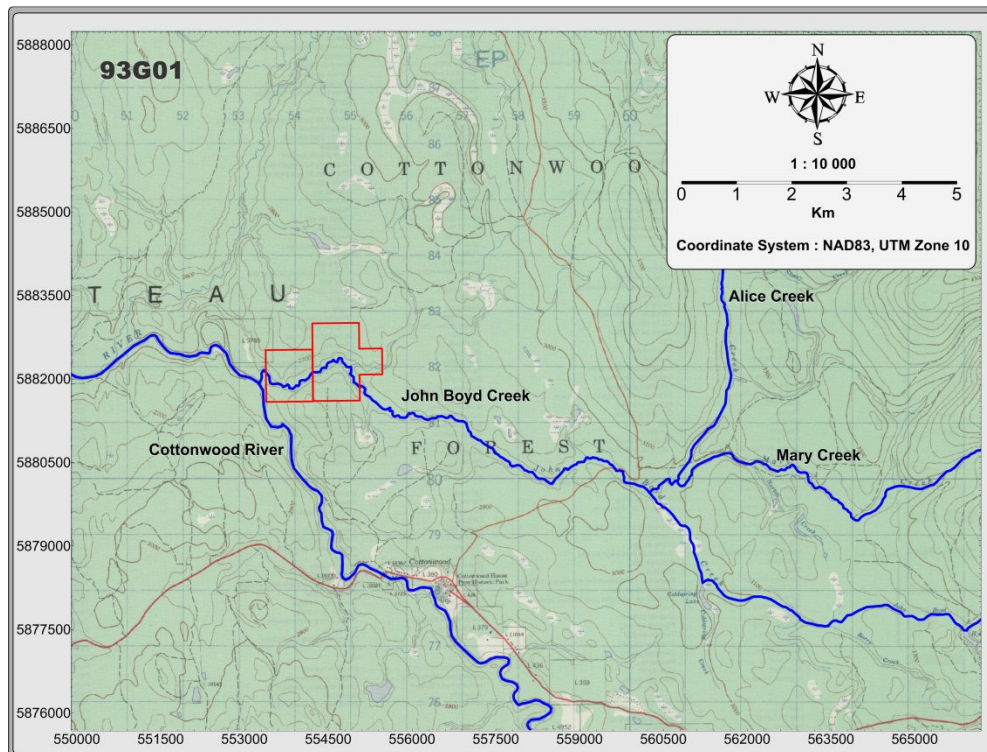


Figure 7. NTS map sheet 93G/01 Highlighting Rivers and Creeks

Elevations in the area range from 760 meters at the Cottonwood River to over 900 meters at locations to the east and southwest of the John Boyd Claim. Within the boundaries of this claim, the elevation drops to 780 meters at John Boyd Creek and ranges up to 840 meters at the south end, where the access road enters the claim as seen in Figure 8.

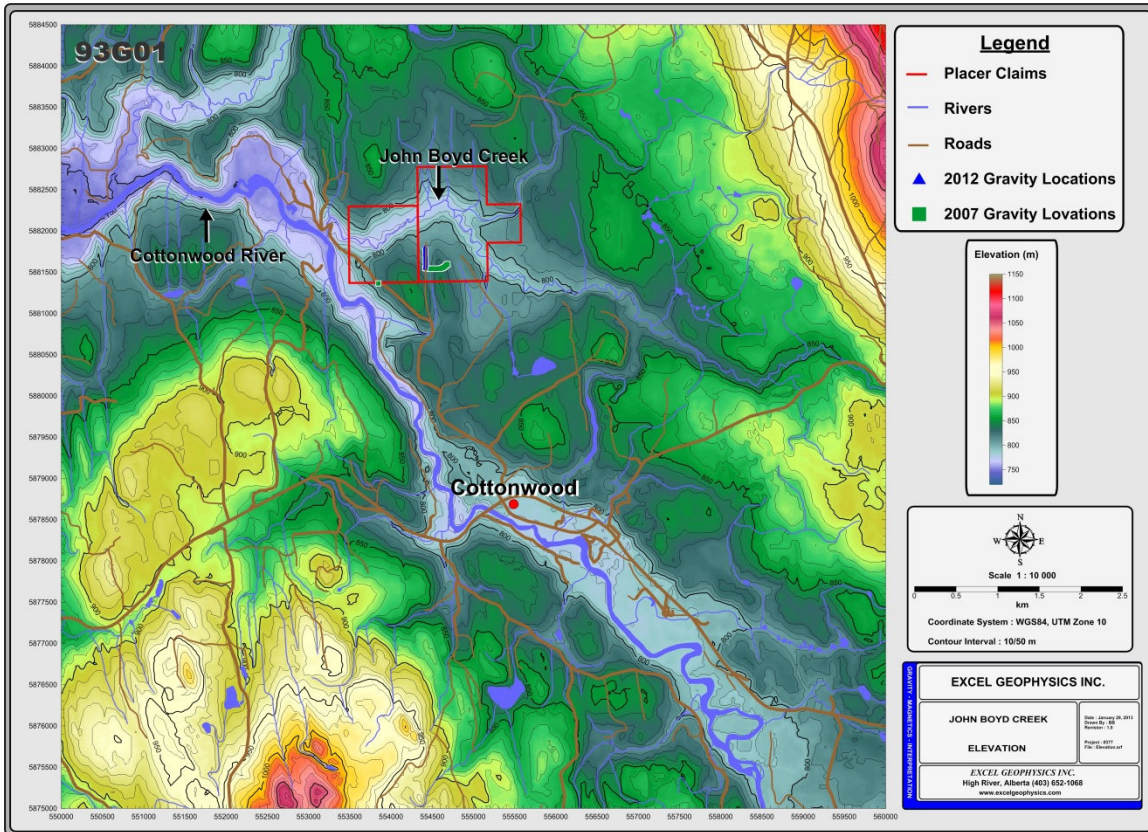


Figure 8. Color Elevation Map

The land around the John Boyd claim is mainly crown, with the forest rights under lease. The nearest population center to the property is the community of Cottonwood. This community has only a few residents and no commercial facilities.

Wells is a small community with a population of 236 and serves as a tourism destination focusing on recreation and the area's historical gold rush related attractions.

Quesnel is a city with a population of about 10,000. An additional 15,000 people live nearby. Quesnel has a regional airport located about three km. north of the city's center. The main airline servicing the Quesnel airport is Central Mountain Air (CMA). This airline offers daily commercial service to and from Vancouver's main terminal and has commercial flights to and from Campbell River, Comox, Dawson Creek, and Prince George. Quesnel has been at the centre of mining for many decades and has all the services that are required for a successful placer mining operation.

Railroad facilities are provided by BC Rail service. Quesnel is one of BC Rail's highest volume loading points in the province. BC Rail provides daily trains to Vancouver and Prince George where it connects with VIA Rail. Access to Prince Rupert Port (through Prince George) or south to Vancouver Port is available for potential concentrate shipments to market.

Power line extends along the road to Cottonwood three kilometers from the south end of the claim. This power line could be accessed if permanent power lines to the claim need to be installed in the future. Water supply could be available from the local streams if deemed necessary for production.

The interior plateau has a short warm spring to summer with a longer season of cool to freezing fall to winter. Year-round exploration or production may be feasible.

3.1 History

The ground held under the current cell claim was held previously as a legacy claim by the same owner Brian Alexander Jones. Preliminary investigations lead to the focusing of the exploration effort on features in and below the glacial till. Minor sampling of the property was undertaken to determine the prospective area. There has been no production from this property.

In 2007 (Assessment Report # 30341) technical work was carried out in the form of geophysical work including magnetic, gravity, and gold spear surveys. The results of these surveys were used to direct the continuing exploration effort.

In August 2008 (Assessment Report # 30907) additional magnetic data were acquired. Two test pits were dug to provide rock samples.

3.2 Geological Setting

The John Boyd Creek property lies within the Cariboo gold belt, which has a long history of both placer and lode gold production. Struik, in GSC Memoir 421, summarized the Cariboo as follows:

Proterozoic to Jurassic rocks are bound by thrust and strike-slip faults into four tectonically and stratigraphically unique terranes. All rocks of the terranes were deposited in an ocean and vary, east to west, from continental shelf clastics and carbonates (Cariboo Terrane) through continental shelf and slope clastics, carbonates and volcanoclastics (Barkerville Terrane), and rift floor pillowed basalt and chert (Slide Mountain Terrane), to island arc volcanoclastics and fine grained clastics (Quesnel Terrane). Mesozoic shallowly dipping faults have shortened the distance between the terranes and late Mesozoic and Tertiary moderately – to steeply – dipping (probably listric) faults have shortened, translated and extended the stacked terranes. Mesoscopically, the structure is dominated by east – and west – verging multiple folds, but regionally by shear, as expressed mainly by transpressional terrane boundary faults.

The structural stacking and disruption of the terranes was accompanied by regional prograde and retrograde metamorphism which subjected most of the area to chlorite grade, and the extreme southeast to kyanite grade.

The general geology of the Cottonwood River Area is outlined on G.S.C. map 1424 (Tipper, 1974). See Figure 9. Regional Geology

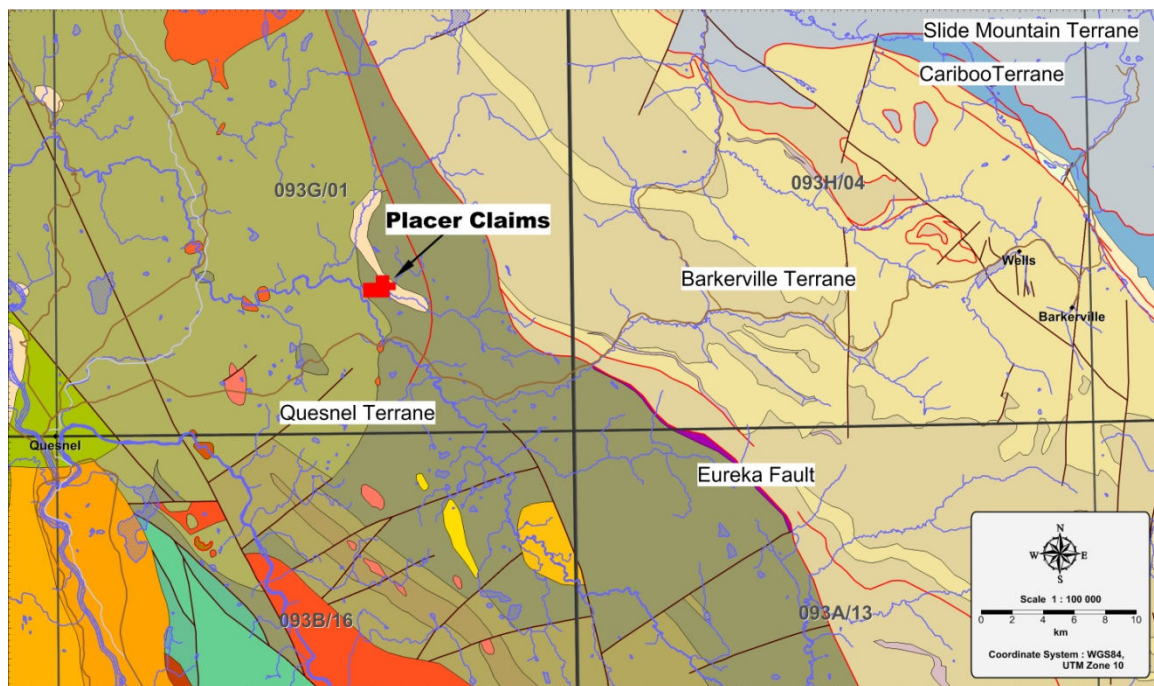


Figure 9. Regional Geology

The John Boyd Creek Property lies within the west most terrain mentioned by Struik, the Quesnel Terrain. The property is located about seven kilometers west of the Eureka fault; this large reverse fault forms the boundary between the Barkerville terrain and the Quesnel terrain. The Quesnel terrain is composed of Triassic and Jurassic pelitic and volcanic rocks, most likely deposited in an island arc setting. These island arcs were accreted to North America in the late Jurassic.

Lode gold deposits, associated with Cretaceous alkalic intrusions into the Triassic and Jurassic clastics are known to the southeast at the Mount Polley and QR deposits. Both Mount Polley and QR lie about 10 to 15 kilometers west of the Eureka fault. The focus of the current exploration program is placer deposits within the glacial tills and no further investigations of the bedrock geology have been undertaken at this time.

3.3 Deposit Types

The gold deposits of interest in this report are entirely located within the glacial till as placer deposits. The gold is thought to originate in hydrothermal veins to the east of the claim site. These veins have intruded into bedrock through fissures, which resulted from the fracturing possibly associated with the Eureka fault system. Glaciations from the east and south has eroded these veins and deposited minerals of interest as placers over the claim site.

The Toop mine, located about 8 kilometers east from the John Boyd Creek claim, along Alice and Mary creeks (tributaries of John Boyd) has yielded extensive placer gold (including nuggets) from fluvial concentrations with the glacial tills (Eyles and Kocsis, 1989).

Small gold nuggets have been recovered from the lower reaches of John Boyd Creek by several recreational gold panners (verbal communication). These same groups have also recovered gold nuggets from the south bank of John Boyd Creek within 2 kilometers of the mouth of the creek and 10 to 20 meters above creek level, in steep banks of glacial till. This observation leads to the hypothesis that course gold is located within the glacial tills that fill the valley. The goal of the present exploration effort is to locate settings within the till where heavy minerals such as magnetite and gold may be concentrated.

3.4 Mineralization

All minerals of interest for this report are in a sedimentary setting. Glaciations have eroded the gold rich veins and paleoplacers from nearby, depositing native gold over the claim site. Glacier melt waters have sorted the glacial deposits; the gold is concentrated due to its dense nature.

3.5 Adjacent Properties

Placer Mines have been located on this trend. The closest, the Toop Mine, has had pay zones 3-6m thick with 100 yards capable of yields reaching 30-40 ounces of gold. (Assessment Report # 12,474 – Economic Geology of Alice Creek Placer Leases). Confirmation of their geological models and amount produced is ongoing. This is a very active area of placer leases following the Cottonwood River System and all of it's tributaries.

4.0 TECHNICAL EXPLORATION WORK

4.1 Gravity Survey Procedure

The survey crew stayed at the Ramada Inn in Quesnel, and travelled to the survey site each day using a 4X4 truck. The last 800 m was travelled on foot along an abandoned forestry access road. A cargo sled was used to transport equipment and supplies for this last leg of the trip to the site. Table 1 outlines the significant parameters of the gravity survey.

Table 1. Gravity Survey Parameters

Gravity Survey Parameters	
General Survey Location	North of Cottonwood, British Columbia Latitude: N53° 04' 54.5" Longitude: W122° 11' 15.4"
Survey Duration	October 31 to Nov 2, 2012
Gravity Station Spacing	5 meters
Gravity Stations Acquired	61 stations – 1 line profile
Methods of Transportation	Walking
Land Gravity Meter Used	Lacoste and Romberg g181
Data Processors	Ted Sanders, Jessica Wright
Operators	Brian Jones, Ted Sanders
Units of Measurement and Survey Resolution	mGal, 0.01mGal.

A known gravity station from a previous survey was used as a gravity base station, as well as for elevation and location control. The bearing of the survey along the road was determined from a previous differential GPS survey of the road location. The coordinates and gravity values of the base reference are shown in Table 2. Station 100 was located at this reference base station.

Table 2. Reference Base Station for Gravity and Elevation Control

Base Name	UTMx (m)	UTMy (m)	Elevation (m)	Observed Gravity (mGal)
827 280	554416	5881680	810.37	981085.74

A total station was used for the present survey to determine the relative locations and elevations of the gravity stations. The total station was situated to provide a clear line of sight for the entire survey. Figure 10 shows the gravity meter setup in the field; the total station can be seen in the background.

A laser reflector target, which was mounted on the gravity meter, was oriented towards the total station during each gravity reading. The horizontal and vertical positions of the gravity meter were determined by the total station with an accuracy of better than one cm while the gravity reading was in progress. (The resulting errors in the gravity data processing are less than 0.002 mGal, which is an order of magnitude better than the gravity meter reading accuracy). The gravity meter operator measured the distance between the gravity meter and the ground at each station.

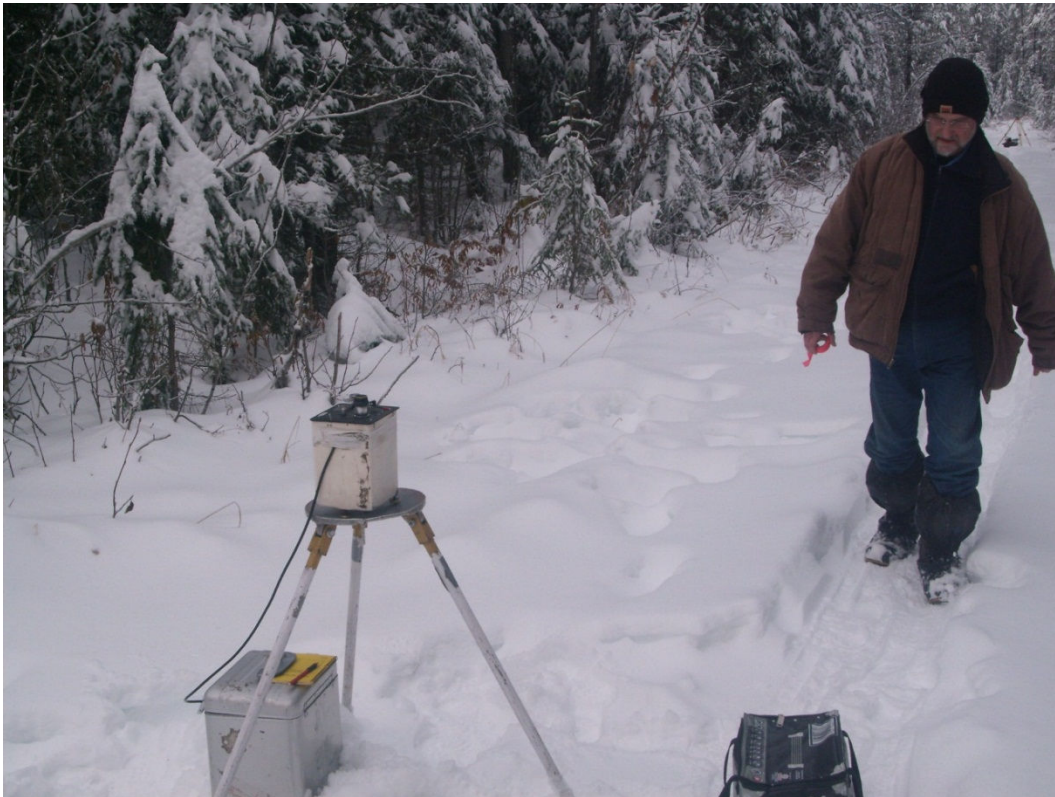


Figure 10. Gravity Meter with Total Station in Background

The topographic relief around each station along the entire survey line was both minimal and consistent. The inner terrain corrections were estimated to be less than 0.02 mGal, and constant along the survey profile. Inner terrain corrections were not applied to the survey.

The gravity readings were taken at a nominal spacing of 5m. Repeat readings at the gravity base were used to determine instrument drift during the survey. The gravity readings were accurate to about 0.01 mGal. Drifts were less than 0.01 mGal per hour.

4.2 Gravity Data Reduction

The LaCoste and Romberg (G-series) land gravity meter is operated manually and is capable of reliable and repeatable gravity readings to an accuracy of better than 0.01 mGal by experienced operators. The operator must ensure that the meter is operated at the recommended regulated temperature and is level during the reading.

The station id, date, time, dial reading, and instrument height were recorded in a field notebook at each land gravity station. A gravity base value is measured at the beginning and end of each day to correctly account for meter drift. Each evening the field data are entered into a portable computer and corrected for instrument calibration, sun/moon tidal effects, instrument height, and instrument drift to obtain the observed gravity. Refer to the observed gravity data listing (John Boyd Creek 2012 – Observed Gravity Data.xlsx) for the raw data, observed gravity and intermediate reduction values for each day.

After the coordinates and elevations from the total station were calculated, these data were merged with the observed gravity for each station, intermediate corrections were applied to the observed gravity to yield final Bouguer anomaly values. See Table 3 for the formulae used to determine the intermediate corrections and Bouguer gravity values. Refer to the Bouguer gravity data listing (John Boyd Creek 2012 - Bouguer Gravity Data.xlsx) for the corrections applied and final Bouguer gravity values. The Bouguer gravity has been calculated using a constant density of 2.0 g/cm³.

Table 3. Gravity Correction Formulae

Gravity Corrections	Description
Latitude Correction	Geodetic Reference System 1967 (GRS67). $= 978031.846 * (1 + 0.005278895 * \sin^2(\text{latitude}) + 0.000023462 * \sin^4(\text{latitude}))$
Free Air Correction	= elevation (m) * 0.3086 mGal/m
Bouguer Correction	= - elevation (m) * density (g/cm ³) * (2 * pi * 0.006672)
Final Bouguer Values	= observed gravity – latitude correction + free air correction + Bouguer correction

4.3 Results of Survey and Interpretation of Gravity Data

The Bouguer values were residualized using a simple 3rd order polynomial and filtered with a 5 point average filter to emphasis the anomaly of exploration interest. A negative gravity anomaly, with an amplitude of about 0.04 mGal and an apparent width of about 70 m may locate a channel in the bedrock (Figure 11). Map products were created using Golden Software products Surfer11 and Grapher9.

Precise modelling of this feature will require more data to both refine the regional gravity field and to define the strike (and hence the true width) of the anomaly. A channel depth of at least several meters is a reasonable estimate at this time. Future gravity work will include expanding the survey area as well as using a closer station spacing to define potential exploration targets.

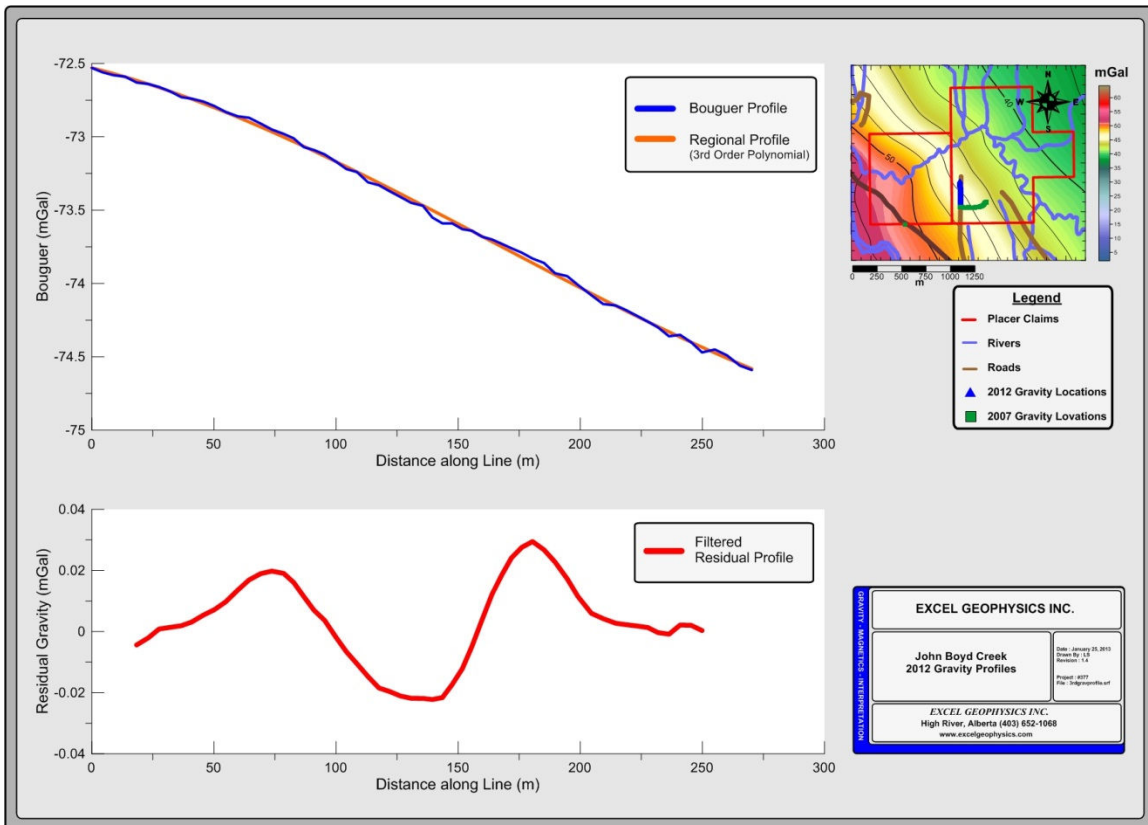


Figure 11. Gravity Profile Results

Table 4. Daily Log

<i>Date</i>	<i>Work Description</i>	<i>Equipment Used</i>
Oct 31, 2012	Mobilized from Quesnel. Scouted area and determined survey location. Acquired 31 Gravity Stations	1 4x4 pick-up truck Gravity Meter G-181 Total Station Handheld Garmin
Nov 1, 2012	Acquired 30 Gravity Stations Preliminary processing of field data	1 4x4 pick-up truck Gravity Meter G-181 Total Station Handheld Garmin
Nov 2, 2012	Demobilized from Quesnel, BC to High River, AB	1 4x4 pick-up truck
Nov 3, 2012	Returned Rental Vehicle to Calgary, AB	1 4x4 pick-up truck

5.0 COST STATEMENT

The technical work on the John Boyd Creek claim was filed as work done on November 7, 2012 in the name of Brian Alexander Jones as event number 5415469. The costs for this survey are outlined in the following Cost Statement. Excel Geophysics conducted the data acquisition, processing and interpretation.

Table 5. Cost Statement

Item	Contractor	Dates	# of Days	Cost Per Day	Total Cost
Geophysical Field Crew 1 Geophysicist and 1 Gravity Meter Operator (Including all equipment)	Excel Geophysics Inc.	Oct 31 to Nov 2	3	\$ 950.00	\$ 2,850.00
Meals	Various Restaurants	Oct 31 to Nov 2	3		\$ 217.27
Accommodation	Ramada, Quesnel, BC	Oct 30 to Nov 1	3	\$ 148.56	\$ 445.67
Truck Rental	Enterprise	Oct 31 to Nov 3	4	\$ 66.20	\$ 264.79
Field Supplies	Canadian Tire	Oct 31			\$ 107.37
Fuel	Various Vendors	Nov 2			\$ 189.12
Processing, Mapping and Interpretation	Excel Geophysics Inc.		1.5	\$ 1,250.00	\$ 1,875.00
Final Report Writing & Preparation	Excel Geophysics Inc.			\$ 1,000.00	\$ 1,000.00
Total Value of Work					\$ 6,949.22

6.0 REFERENCES

Struik, L.C. 1988. Geological Survey of Canada. *Structural Geology of the Cariboo Gold Mining District, East-Central British Columbia. Memoir 421.*

Moraal, D. 1985. Geological Branch Assessment Report 13,789. Mary Creek Resource Corp. *Assessment Report Line-Cutting and Geophysical Surveys. Bar Group, Cariboo Mining Division.*

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<http://www.nwcorridor.com/British%20Columbia/Quesnel.php>

<http://www.britishcolumbia.com/regions/towns/?townID=4080>

<http://www.welcomebc.ca/en/regions/cariboo/cities.html>

<http://www.for.gov.bc.ca/dqu/>

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7.0 DATE AND SIGNATURE PAGE
STATEMENT OF QUALIFICATIONS

BRIAN ALEXANDER JONES

I, Brian A. Jones, do hereby certify that:

1. I am a consulting geophysicist of Excel Geophysics Inc., with an office at 302 Centre Street S, High River, Alberta, T1V 1M3.
2. I am a graduate of the University of Toronto with the following degrees:


B.A.Sc. (1971) – Engineering Science, Geophysics option

M.Sc. (1973) – Department of Physics, Geophysics division
Thesis: A Gravity Survey and Interpretation in Northwestern Ontario
3. I have actively practiced my profession of exploration geophysics throughout Canada for the past thirty-nine years.
4. I am registered as a Professional Geophysicist with Alberta - APEGGA #48925 and British Columbia - APEGBC #173032.
5. I am an active member of the Canadian Society of Exploration Geophysicists and the Society of Exploration Geophysicists.

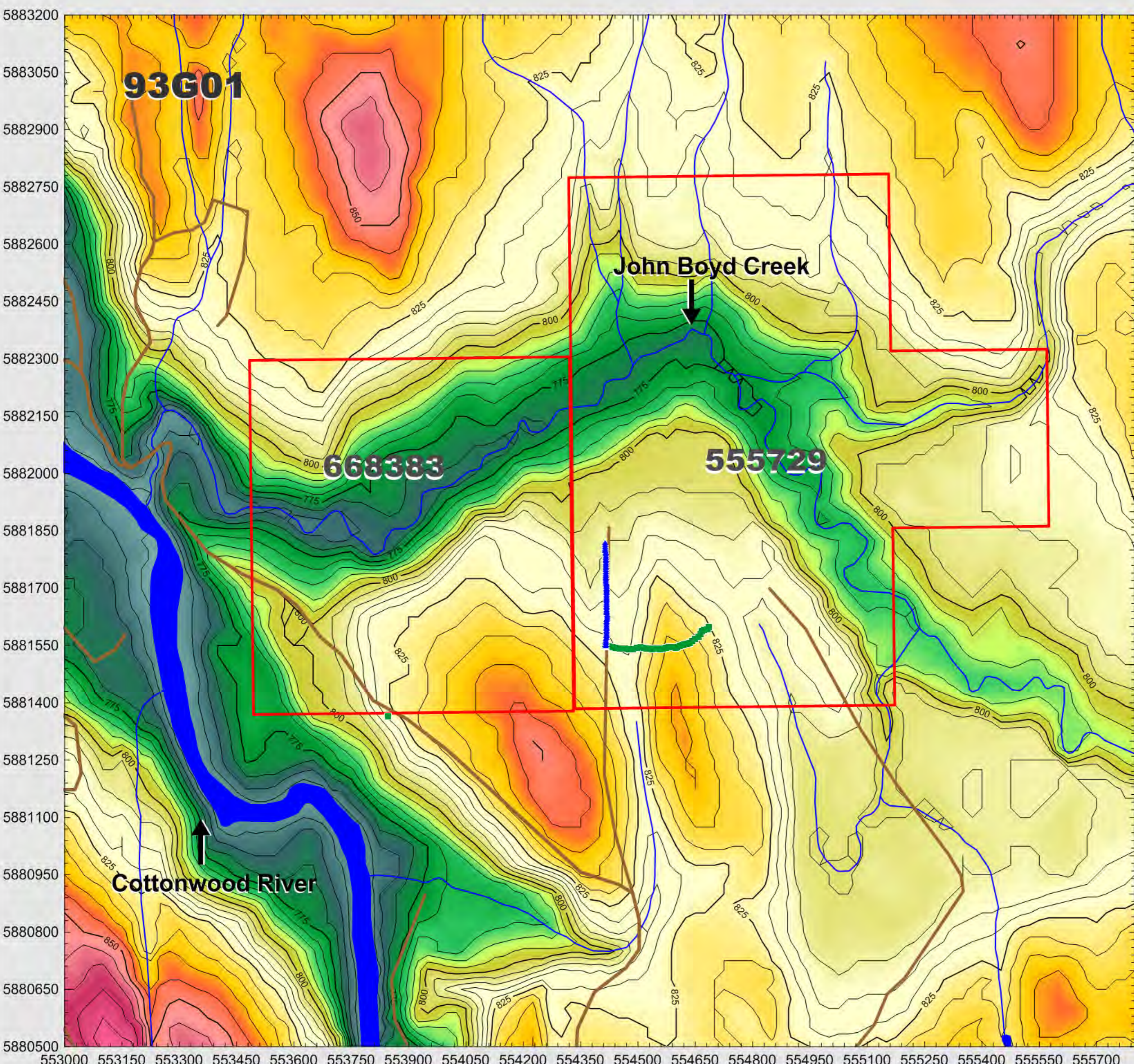
Statement of Qualifications

I, Brian Jones, of the Town of High River, Alberta do hereby state:

1. I am a member of APEGBC # 173032
2. This report is based on information obtained by myself during the work exploration program.

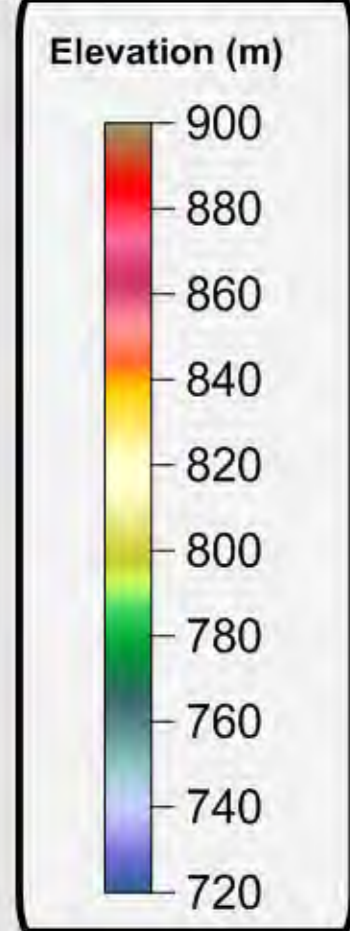


Brian Jones M.Sc.
February 1, 2013



Legend

- Placer Claims
- Rivers
- Roads
- ▲ 2012 Gravity Locations
- 2007 Gravity Locations



Scale 1 : 10 000

0 0.2 0.4 0.6 km

Coordinate System : WGS84, UTM Zone 10

EXCEL GEOPHYSICS INC.

JOHN BOYD CREEK

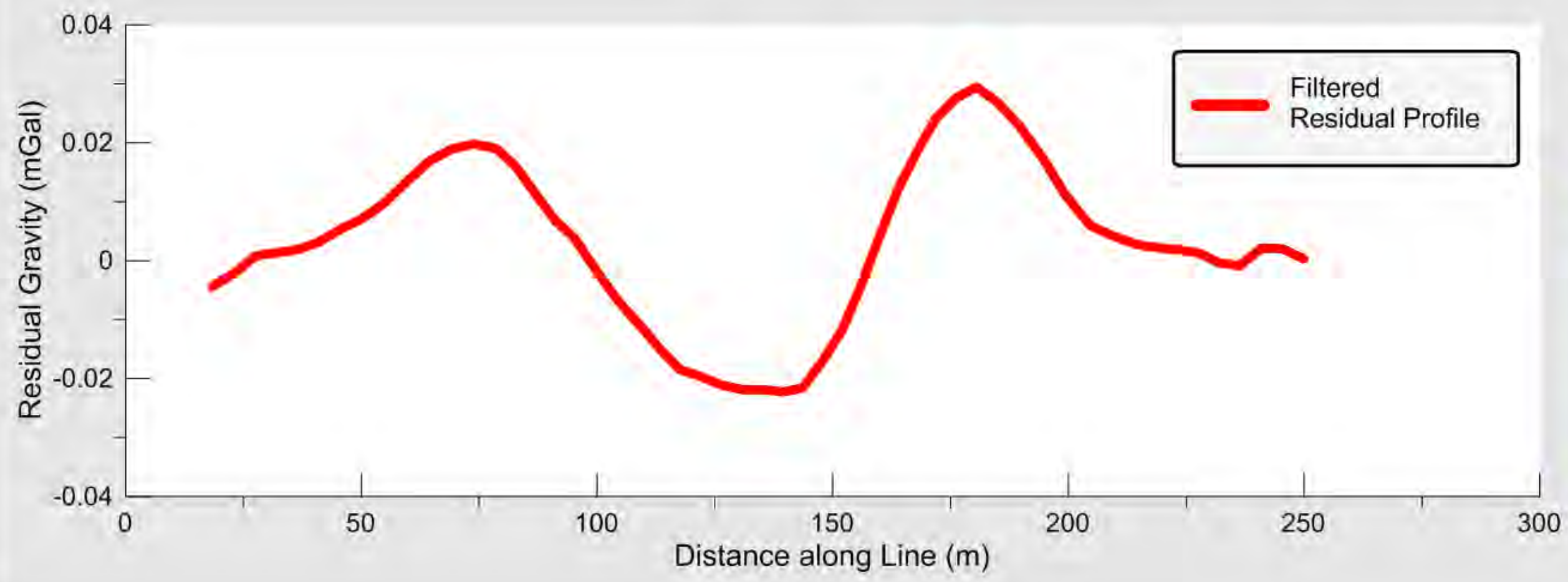
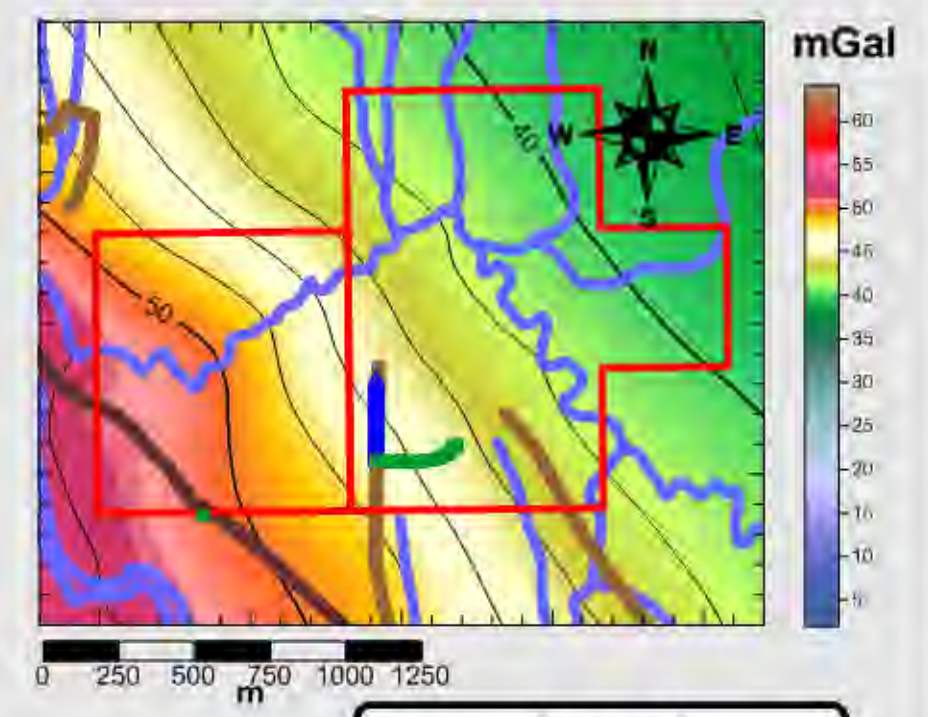
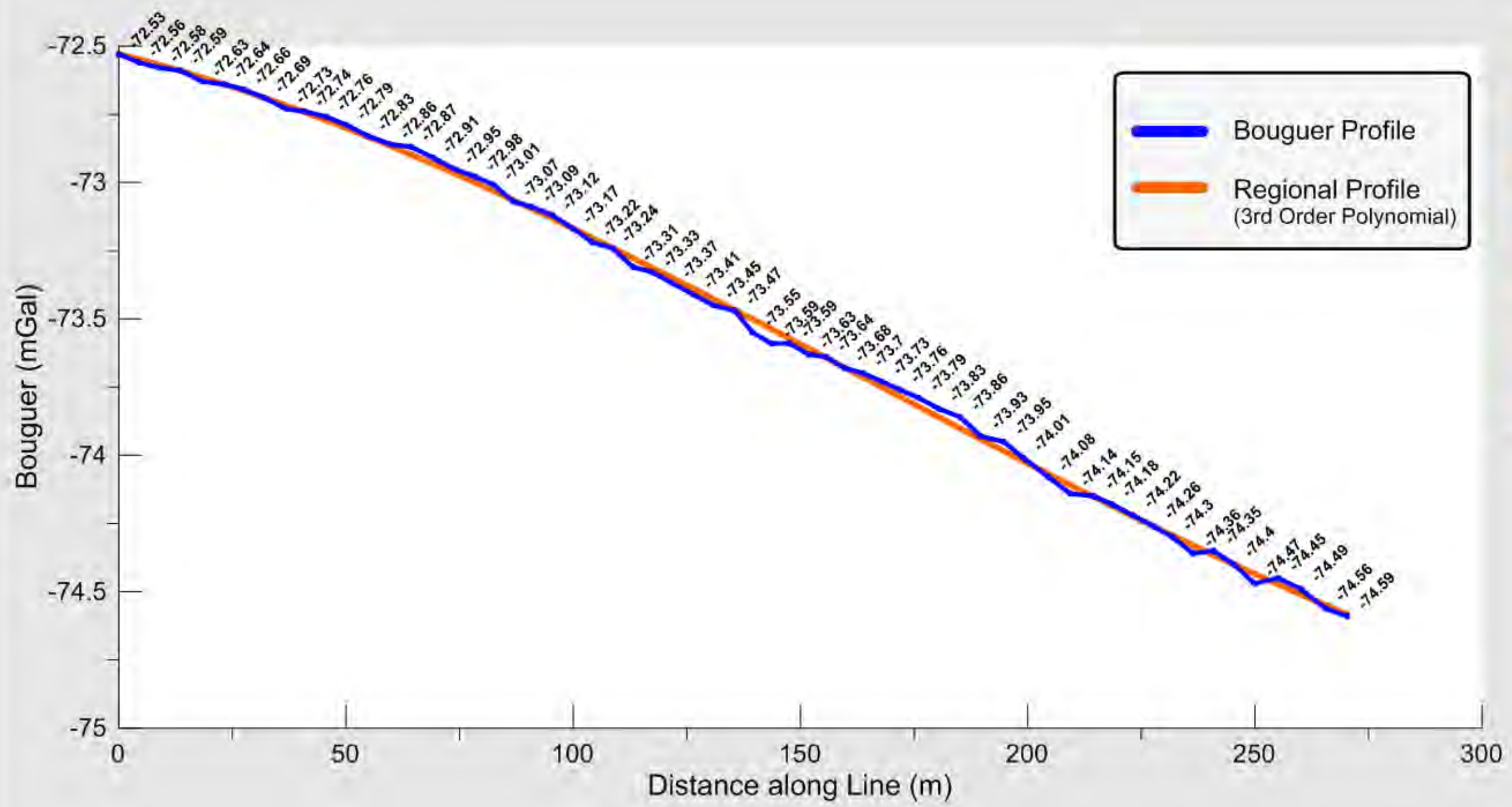
Colour Elevation Index Map

Date : January 29, 2013
Drawn By : BB
Revision : 1.0

Project : #377
File : NTSmap.arf

EXCEL GEOPHYSICS INC.
High River, Alberta (403) 652-1068
www.excelgeophysics.com

GRAVITY - MAGNETICS - INTERPRETATION



EXCEL GEOPHYSICS INC.

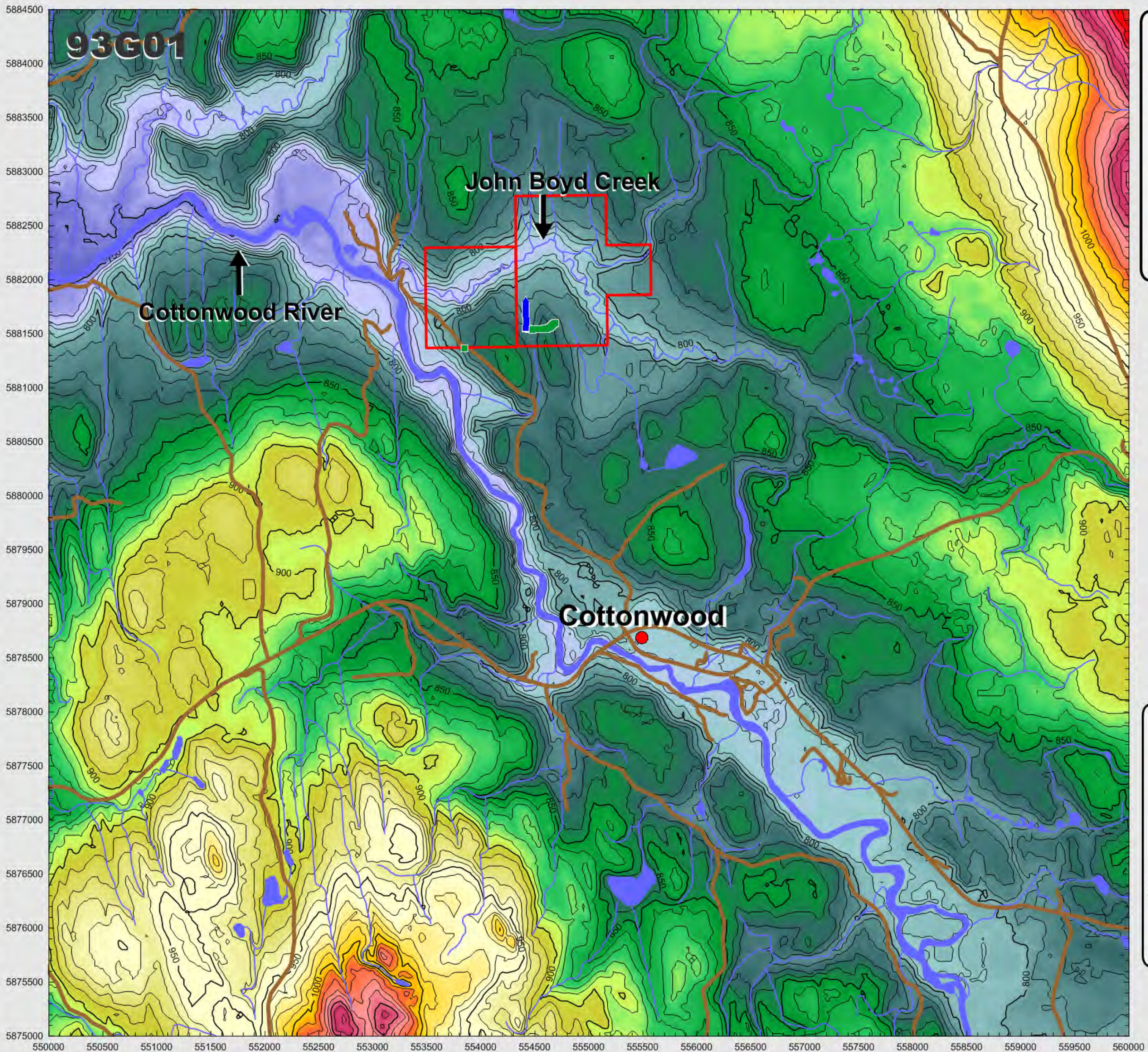
**John Boyd Creek
2012 Gravity Profiles**

Date: January 25, 2013
Drawn By: LS
Revision: 1.4

Project: #377
File: 3rdgravprofile.arr

EXCEL GEOPHYSICS INC.
High River, Alberta (403) 652-1068
www.excelgeophysics.com

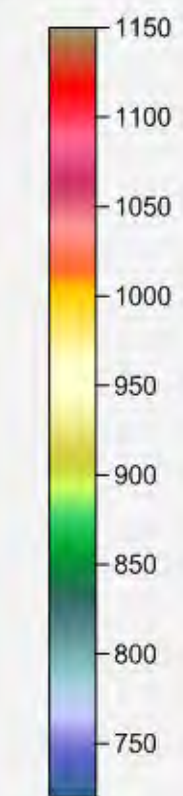
GRAVITY - MAGNETICS - INTERPRETATION



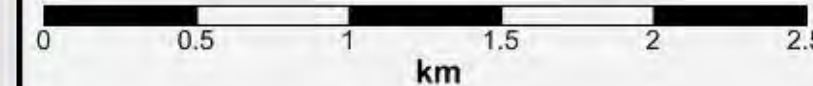
Legend

- Placer Claims
- Rivers
- Roads
- ▲ 2012 Gravity Locations
- 2007 Gravity Locations

Elevation (m)



Scale 1 : 10 000



Coordinate System : WGS84, UTM Zone 10

**BRIAN JONES PLACER CLAIMS
JOHN BOYD CREEK 2012 GRAVITY SURVEY - BOUGUER GRAVITY DATA**

Line Number	Station Number	Latitude NAD 83 (decimal degrees)	Longitude	UTMx UTM Zone 10 NAD 83 (metres)	UTMy	Elevation (metres) (above sea level)	Observed Gravity (mGal)	Corrections			Bouguer Anomaly Constant Density $\rho = 2.00 \text{ g/cm}^3$ (mGal)
								Latitude	Free Air	Bouguer	
								(mGal)			
0	100	53.08185	-122.18759	554417.5	5881684.0	810.4	981085.74	981341.35	250.08	67.94	-73.47
1031	101	53.08188	-122.18759	554417.4	5881687.9	810.2	981085.70	981341.35	250.03	67.93	-73.55
1031	102	53.08192	-122.18759	554417.3	5881692.0	810.1	981085.70	981341.35	249.98	67.92	-73.59
1031	103	53.08196	-122.18759	554417.3	5881696.0	809.9	981085.74	981341.36	249.93	67.90	-73.59
1031	104	53.08199	-122.18759	554417.2	5881700.2	809.7	981085.74	981341.36	249.88	67.89	-73.63
1031	105	53.08203	-122.18759	554417.1	5881704.1	809.5	981085.77	981341.36	249.83	67.87	-73.64
1031	106	53.08207	-122.18759	554417.0	5881708.1	809.5	981085.76	981341.37	249.80	67.87	-73.68
1031	107	53.08210	-122.18759	554416.9	5881712.3	809.3	981085.77	981341.37	249.76	67.86	-73.70
1031	108	53.08214	-122.18759	554416.8	5881716.4	809.1	981085.79	981341.37	249.69	67.84	-73.73
1031	109	53.08217	-122.18760	554416.7	5881720.3	809.0	981085.79	981341.38	249.66	67.83	-73.76
1031	110	53.08221	-122.18760	554416.6	5881724.5	808.8	981085.80	981341.38	249.60	67.81	-73.79
1031	111	53.08225	-122.18760	554416.5	5881728.9	808.6	981085.81	981341.38	249.54	67.80	-73.83
1031	112	53.08229	-122.18760	554416.4	5881733.6	808.5	981085.81	981341.39	249.51	67.79	-73.86
1031	113	53.08233	-122.18760	554416.3	5881738.1	808.3	981085.78	981341.39	249.45	67.77	-73.93
1031	114	53.08238	-122.18760	554416.2	5881743.1	808.1	981085.83	981341.39	249.37	67.75	-73.95
1031	115	53.08242	-122.18760	554416.1	5881747.5	807.9	981085.81	981341.40	249.32	67.74	-74.01
1031	116	53.08247	-122.18760	554416.0	5881753.0	807.7	981085.79	981341.40	249.25	67.72	-74.08
1031	117	53.08251	-122.18760	554415.9	5881757.8	807.4	981085.79	981341.41	249.17	67.70	-74.14
1031	118	53.08256	-122.18760	554415.8	5881763.0	807.3	981085.81	981341.41	249.13	67.69	-74.15
1031	119	53.08259	-122.18760	554415.7	5881767.0	807.3	981085.80	981341.41	249.12	67.68	-74.18
1031	120	53.08264	-122.18760	554415.6	5881771.6	807.1	981085.80	981341.42	249.06	67.67	-74.22
1031	121	53.08268	-122.18760	554415.5	5881776.1	806.9	981085.80	981341.42	249.02	67.66	-74.26
1031	122	53.08271	-122.18760	554415.4	5881780.3	806.8	981085.80	981341.42	248.97	67.64	-74.30
1031	123	53.08275	-122.18761	554415.3	5881784.8	806.6	981085.79	981341.43	248.91	67.62	-74.36
1031	124	53.08280	-122.18761	554415.2	5881789.3	806.4	981085.83	981341.43	248.86	67.61	-74.35
1031	125	53.08284	-122.18761	554415.1	5881793.8	806.2	981085.83	981341.43	248.80	67.60	-74.40
1031	126	53.08288	-122.18761	554415.0	5881798.3	806.0	981085.83	981341.44	248.72	67.57	-74.47
1031	127	53.08292	-122.18761	554414.9	5881803.5	805.8	981085.88	981341.44	248.68	67.56	-74.45
1031	128	53.08297	-122.18761	554414.8	5881808.5	805.6	981085.90	981341.45	248.60	67.54	-74.49
1031	129	53.08302	-122.18761	554414.7	5881813.8	805.4	981085.87	981341.45	248.55	67.53	-74.56
1031	130	53.08306	-122.18761	554414.5	5881818.7	805.4	981085.84	981341.45	248.55	67.53	-74.59
1101	70	53.08063	-122.18757	554416.1	5881548.5	816.9	981085.11	981341.24	252.09	68.49	-72.53
1101	71	53.08067	-122.18757	554416.3	5881552.9	816.6	981085.15	981341.25	252.00	68.47	-72.56
1101	72	53.08071	-122.18757	554416.4	5881557.4	816.4	981085.19	981341.25	251.93	68.45	-72.58
1101	73	53.08075	-122.18757	554416.6	5881562.2	816.0	981085.25	981341.25	251.83	68.42	-72.59
1101	74	53.08080	-122.18757	554416.8	5881566.8	815.7	981085.29	981341.26	251.73	68.39	-72.63
1101	75	53.08084	-122.18757	554416.9	5881571.7	815.5	981085.34	981341.26	251.65	68.37	-72.64
1101	76	53.08088	-122.18757	554417.1	5881576.1	815.2	981085.37	981341.26	251.58	68.35	-72.66
1101	77	53.08092	-122.18757	554417.2	5881580.5	814.9	981085.42	981341.27	251.48	68.33	-72.69
1101	78	53.08096	-122.18757	554417.4	5881585.2	814.5	981085.47	981341.27	251.37	68.29	-72.73
1101	79	53.08100	-122.18757	554417.6	5881589.4	814.2	981085.53	981341.27	251.27	68.27	-72.74
1101	80	53.08104	-122.18757	554417.7	5881594.2	814.0	981085.58	981341.28	251.19	68.24	-72.76
1101	81	53.08108	-122.18758	554417.9	5881598.7	813.6	981085.63	981341.28	251.08	68.21	-72.79
1101	82	53.08112	-122.18758	554418.0	5881603.3	813.4	981085.64	981341.29	251.01	68.20	-72.83
1101	83	53.08117	-122.18758	554418.2	5881608.2	813.2	981085.65	981341.29	250.97	68.18	-72.86
1101	84	53.08121	-122.18758	554418.4	5881612.8	813.1	981085.66	981341.29	250.94	68.18	-72.87
1101	85	53.08125	-122.18758	554418.6	5881617.6	813.0	981085.66	981341.30	250.88	68.16	-72.91
1101	86	53.08129	-122.18758	554418.7	5881622.2	812.9	981085.65	981341.30	250.85	68.15	-72.95

**BRIAN JONES PLACER CLAIMS
JOHN BOYD CREEK 2012 GRAVITY SURVEY - BOUGUER GRAVITY DATA**

Line Number	Station Number	Latitude NAD 83 (decimal degrees)	Longitude	UTMx UTM Zone 10 NAD 83 (metres)	UTMy	Elevation (metres) (above sea level)	Observed Gravity (mGal)	Corrections			Bouguer Anomaly Constant Density $\rho = 2.00 \text{ g/cm}^3$ (mGal)
								Latitude	Free Air	Bouguer	
								(mGal)			
1101	87	53.08134	-122.18758	554418.8	5881627.0	812.7	981085.67	981341.30	250.79	68.14	-72.98
1101	88	53.08137	-122.18758	554418.7	5881631.1	812.5	981085.67	981341.31	250.75	68.13	-73.01
1101	89	53.08141	-122.18758	554418.6	5881635.3	812.3	981085.66	981341.31	250.69	68.11	-73.07
1101	90	53.08145	-122.18758	554418.5	5881639.4	812.2	981085.68	981341.31	250.64	68.10	-73.09
1101	91	53.08149	-122.18758	554418.4	5881643.8	812.0	981085.70	981341.32	250.57	68.08	-73.12
1101	92	53.08153	-122.18758	554418.3	5881648.5	811.8	981085.70	981341.32	250.51	68.06	-73.17
1101	93	53.08157	-122.18758	554418.2	5881652.7	811.6	981085.70	981341.32	250.45	68.04	-73.22
1101	94	53.08161	-122.18758	554418.1	5881657.0	811.5	981085.69	981341.33	250.43	68.04	-73.24
1101	95	53.08165	-122.18759	554418.0	5881661.5	811.3	981085.67	981341.33	250.38	68.03	-73.31
1101	96	53.08169	-122.18759	554417.9	5881666.0	811.1	981085.70	981341.33	250.30	68.00	-73.33
1101	97	53.08173	-122.18759	554417.8	5881670.3	810.9	981085.71	981341.34	250.25	67.99	-73.37
1101	98	53.08177	-122.18759	554417.7	5881674.8	810.7	981085.72	981341.34	250.18	67.97	-73.41
1101	99	53.08181	-122.18759	554417.6	5881679.2	810.4	981085.74	981341.35	250.10	67.95	-73.45

**BRIAN JONES PLACER CLAIMS
JOHN BOYD CREEK 2012 GRAVITY SURVEY - OBSERVED GRAVITY DATA**

Line Number	Station Number	Date (mm/dd/yyyy)	Time (hhmm)	GMT Shift (hrs to GMT)	Gravity Meter Number	Operator ID	Counter Reading	Instrument Height (cm)	Calibrated Reading (mGal)	Instrument Height Correction (mGal)	Tide Correction (mGal)	Adjusted Reading (mGal)	Drift Correction (mGal)	Relative Gravity (mGal)	Observed Gravity (mGal)
0	100	2012-10-31	1451	6	181	Ted Sanders	4517.58	91.0	4763.34	0.28	-0.06	4763.56	0.000	4763.56	981085.74
1031	101	2012-10-31	1501	6	181	Ted Sanders	4517.56	84.0	4763.32	0.26	-0.06	4763.52	0.002	4763.52	981085.70
1031	102	2012-10-31	1508	6	181	Ted Sanders	4517.56	86.0	4763.32	0.27	-0.06	4763.52	0.003	4763.52	981085.70
1031	103	2012-10-31	1517	6	181	Ted Sanders	4517.56	81.0	4763.32	0.25	-0.06	4763.51	0.004	4763.50	981085.68
1031	104	2012-10-31	1530	6	181	Ted Sanders	4517.61	82.0	4763.37	0.25	-0.06	4763.56	0.007	4763.56	981085.74
1031	105	2012-10-31	1537	6	181	Ted Sanders	4517.64	85.0	4763.40	0.26	-0.06	4763.60	0.008	4763.59	981085.77
1031	106	2012-10-31	1545	6	181	Ted Sanders	4517.61	92.0	4763.37	0.28	-0.06	4763.59	0.009	4763.58	981085.76
1031	107	2012-10-31	1552	6	181	Ted Sanders	4517.62	92.0	4763.38	0.28	-0.06	4763.60	0.010	4763.59	981085.77
1031	108	2012-10-31	1600	6	181	Ted Sanders	4517.65	88.5	4763.41	0.27	-0.06	4763.62	0.012	4763.61	981085.79
1031	109	2012-10-31	1606	6	181	Ted Sanders	4517.64	91.0	4763.40	0.28	-0.06	4763.62	0.013	4763.61	981085.79
1031	110	2012-10-31	1613	6	181	Ted Sanders	4517.66	91.0	4763.42	0.28	-0.06	4763.64	0.014	4763.62	981085.80
1031	111	2012-10-31	1620	6	181	Ted Sanders	4517.68	88.0	4763.44	0.27	-0.07	4763.65	0.015	4763.63	981085.81
1031	112	2012-10-31	1626	6	181	Ted Sanders	4517.67	92.0	4763.43	0.28	-0.07	4763.65	0.016	4763.63	981085.81
1031	113	2012-10-31	1632	6	181	Ted Sanders	4517.65	89.0	4763.41	0.27	-0.07	4763.62	0.017	4763.60	981085.78
1031	114	2012-10-31	1639	6	181	Ted Sanders	4517.70	87.0	4763.46	0.27	-0.07	4763.67	0.019	4763.65	981085.83
1031	115	2012-10-31	1648	6	181	Ted Sanders	4517.67	92.0	4763.43	0.28	-0.07	4763.65	0.020	4763.63	981085.81
1031	116	2012-10-31	1658	6	181	Ted Sanders	4517.66	90.0	4763.42	0.28	-0.07	4763.63	0.022	4763.61	981085.79
1031	117	2012-10-31	1708	6	181	Ted Sanders	4517.69	80.0	4763.45	0.25	-0.07	4763.63	0.024	4763.61	981085.79
1031	118	2012-10-31	1714	6	181	Ted Sanders	4517.69	89.0	4763.45	0.27	-0.07	4763.66	0.025	4763.63	981085.81
1031	119	2012-10-31	1720	6	181	Ted Sanders	4517.68	88.5	4763.44	0.27	-0.07	4763.64	0.026	4763.62	981085.80
1031	120	2012-10-31	1726	6	181	Ted Sanders	4517.69	86.0	4763.45	0.27	-0.07	4763.64	0.027	4763.62	981085.80
1031	121	2012-10-31	1733	6	181	Ted Sanders	4517.69	88.5	4763.45	0.27	-0.08	4763.65	0.028	4763.62	981085.80
1031	122	2012-10-31	1740	6	181	Ted Sanders	4517.70	83.0	4763.46	0.26	-0.08	4763.64	0.029	4763.62	981085.80
1031	123	2012-10-31	1747	6	181	Ted Sanders	4517.71	80.0	4763.47	0.25	-0.08	4763.64	0.030	4763.61	981085.79
1031	124	2012-10-31	1754	6	181	Ted Sanders	4517.74	83.0	4763.51	0.26	-0.08	4763.68	0.031	4763.65	981085.83
1031	125	2012-10-31	1803	6	181	Ted Sanders	4517.75	78.0	4763.52	0.24	-0.08	4763.68	0.033	4763.65	981085.83
1031	126	2012-10-31	1809	6	181	Ted Sanders	4517.77	73.0	4763.54	0.23	-0.08	4763.68	0.034	4763.65	981085.83
1031	127	2012-10-31	1815	6	181	Ted Sanders	4517.75	96.0	4763.52	0.30	-0.08	4763.73	0.035	4763.70	981085.88
1031	128	2012-10-31	1823	6	181	Ted Sanders	4517.81	84.0	4763.58	0.26	-0.08	4763.76	0.036	4763.72	981085.90
1031	129	2012-10-31	1829	6	181	Ted Sanders	4517.78	84.0	4763.55	0.26	-0.08	4763.73	0.037	4763.69	981085.87
1031	130	2012-10-31	1836	6	181	Ted Sanders	4517.75	86.0	4763.52	0.27	-0.08	4763.70	0.039	4763.66	981085.84
1031	103	2012-10-31	1847	6	181	Ted Sanders	4517.64	92.0	4763.40	0.28	-0.08	4763.60	0.041	4763.56	981085.74
0	100	2012-10-31	1855	6	181	Ted Sanders	4517.64	92.0	4763.40	0.28	-0.08	4763.60	0.042	4763.56	981085.74
1031	103	2012-11-01	1524	6	181	Ted Sanders	4517.55	0.9	4763.31	0.00	-0.06	4763.25	0.000	4763.25	981085.74
1031	103	2012-11-01	1531	6	181	Ted Sanders	4517.54	0.9	4763.30	0.00	-0.06	4763.24	0.000	4763.24	981085.73
0	100	2012-11-01	1537	6	181	Ted Sanders	4517.54	0.9	4763.30	0.00	-0.06	4763.24	0.000	4763.24	981085.73
1101	99	2012-11-01	1547	6	181	Ted Sanders	4517.55	0.8	4763.31	0.00	-0.06	4763.25	0.000	4763.24	981085.74
1101	98	2012-11-01	1553	6	181	Ted Sanders	4517.53	0.9	4763.28	0.00	-0.06	4763.22	0.001	4763.22	981085.72
1101	97	2012-11-01	1557	6	181	Ted Sanders	4517.52	0.8	4763.27	0.00	-0.06	4763.21	0.001	4763.21	981085.71
1101	96	2012-11-01	1603	6	181	Ted Sanders	4517.51	0.8	4763.26	0.00	-0.06	4763.20	0.001	4763.20	981085.70
1101	95	2012-11-01	1609	6	181	Ted Sanders	4517.49	0.9	4763.24	0.00	-0.06	4763.18	0.001	4763.18	981085.67
1101	94	2012-11-01	1615	6	181	Ted Sanders	4517.51	0.9	4763.26	0.00	-0.07	4763.20	0.001	4763.20	981085.69
1101	93	2012-11-01	1620	6	181	Ted Sanders	4517.52	0.8	4763.27	0.00	-0.07	4763.21	0.001	4763.21	981085.70
1101	92	2012-11-01	1625	6	181	Ted Sanders	4517.52	0.9	4763.27	0.00	-0.07	4763.21	0.001	4763.21	981085.70
1101	91	2012-11-01	1630	6	181	Ted Sanders	4517.52	0.9	4763.27	0.00	-0.07	4763.21	0.001	4763.21	981085.70
1101	90	2012-11-01	1635	6	181	Ted Sanders	4517.50	0.9	4763.25	0.00	-0.07	4763.19	0.001	4763.19	981085.68
1101	89	2012-11-01	1641	6	181	Ted Sanders	4517.48	0.9	4763.23	0.00	-0.07	4763.17	0.002	4763.17	981085.66
1101	88	2012-11-01	1646	6	181	Ted Sanders	4517.49	0.9	4763.24	0.00	-0.07	4763.18	0.002	4763.18	981085.67

**BRIAN JONES PLACER CLAIMS
JOHN BOYD CREEK 2012 GRAVITY SURVEY - OBSERVED GRAVITY DATA**

Line Number	Station Number	Date (mm/dd/yyyy)	Time (hhmm)	GMT Shift (hrs to GMT)	Gravity Meter Number	Operator ID	Counter Reading	Instrument Height (cm)	Calibrated Reading (mGal)	Instrument Height Correction (mGal)	Tide Correction (mGal)	Adjusted Reading (mGal)	Drift Correction (mGal)	Relative Gravity (mGal)	Observed Gravity (mGal)
1101	87	2012-11-01	1652	6	181	Ted Sanders	4517.49	0.8	4763.24	0.00	-0.07	4763.18	0.002	4763.18	981085.67
1101	86	2012-11-01	1656	6	181	Ted Sanders	4517.47	0.9	4763.22	0.00	-0.07	4763.16	0.002	4763.15	981085.65
1101	85	2012-11-01	1702	6	181	Ted Sanders	4517.48	0.8	4763.23	0.00	-0.07	4763.17	0.002	4763.16	981085.66
1101	84	2012-11-01	1707	6	181	Ted Sanders	4517.48	0.8	4763.23	0.00	-0.07	4763.16	0.002	4763.16	981085.66
1101	83	2012-11-01	1712	6	181	Ted Sanders	4517.47	0.8	4763.22	0.00	-0.07	4763.15	0.002	4763.15	981085.65
1101	82	2012-11-01	1718	6	181	Ted Sanders	4517.47	0.8	4763.22	0.00	-0.07	4763.15	0.002	4763.15	981085.64
1101	81	2012-11-01	1723	6	181	Ted Sanders	4517.46	0.9	4763.21	0.00	-0.07	4763.14	0.002	4763.14	981085.63
1101	80	2012-11-01	1731	6	181	Ted Sanders	4517.41	0.9	4763.16	0.00	-0.07	4763.09	0.003	4763.09	981085.58
1101	79	2012-11-01	1736	6	181	Ted Sanders	4517.36	0.9	4763.11	0.00	-0.07	4763.04	0.003	4763.03	981085.53
1101	78	2012-11-01	1742	6	181	Ted Sanders	4517.31	0.9	4763.05	0.00	-0.07	4762.98	0.003	4762.98	981085.47
1101	77	2012-11-01	1747	6	181	Ted Sanders	4517.26	0.9	4763.00	0.00	-0.07	4762.93	0.003	4762.93	981085.42
1101	76	2012-11-01	1752	6	181	Ted Sanders	4517.21	0.9	4762.95	0.00	-0.07	4762.87	0.003	4762.87	981085.37
1101	75	2012-11-01	1758	6	181	Ted Sanders	4517.19	0.8	4762.93	0.00	-0.08	4762.85	0.003	4762.85	981085.34
1101	74	2012-11-01	1802	6	181	Ted Sanders	4517.14	0.8	4762.87	0.00	-0.08	4762.80	0.003	4762.80	981085.29
1101	73	2012-11-01	1807	6	181	Ted Sanders	4517.10	0.9	4762.83	0.00	-0.08	4762.76	0.003	4762.75	981085.25
1101	72	2012-11-01	1814	6	181	Ted Sanders	4517.05	0.9	4762.78	0.00	-0.08	4762.70	0.003	4762.70	981085.19
1101	71	2012-11-01	1821	6	181	Ted Sanders	4517.01	0.9	4762.74	0.00	-0.08	4762.66	0.004	4762.66	981085.15
1101	70	2012-11-01	1826	6	181	Ted Sanders	4516.97	0.9	4762.69	0.00	-0.08	4762.62	0.004	4762.61	981085.11
0	100	2012-11-01	1838	6	181	Ted Sanders	4517.57	0.9	4763.33	0.00	-0.08	4763.25	0.004	4763.25	981085.74
1031	103	2012-11-01	1844	6	181	Ted Sanders	4517.57	0.9	4763.33	0.00	-0.08	4763.25	0.004	4763.25	981085.74