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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)]: Geophysical. **TOTAL COST:** $52363.47

AUTHOR(S): Barry Price, Meridian Mapping **SIGNATURE(S):** Barry Price.

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____ **YEAR OF WORK:** 2011

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event No. 5116226

PROPERTY NAME: Pinchi. DM Claims 36 titles.

CLAIM NAME(S) (on which the work was done): List attached.

COMMODITIES SOUGHT: Cu. Au, Ag.

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: Includes 093N-065 Mariposite

MINING DIVISION: Omineca **NTS/BCGS:** 093N 082, 13E

LATITUDE: 55 ° 54 ' " **LONGITUDE:** 125 ° 45 ' " (at centre of work)

OWNER(S):

1) Donald K. Bragg
c/o. Ste 831 - 470 Granville St
Vancouver BC. V6C 1V5

2) Sointula Resources Inc
Ste 827, 470 Granville St
Vancouver BC V6C 1V5

MAILING ADDRESS:

As above.

as above.

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

1) Sointula Resources Inc.

2) _____

MAILING ADDRESS:

See above.

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

Copper/Gold porphyry target in Takla volcanics and Duckling Creek complex intrusives.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 29785

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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			$3000
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			$49363.47
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:	$52363.47

Barry Pho.

ASSESSMENT REPORT

TECHNICAL WORK – MAGNETOMETER SURVEY

PINCHI COPPER PROPERTY 2011

DM claims Omineca River, Omineca Mining Division

Latitude 55° 54' N, Longitude 125° 45' W

UTM: NAD 83 ZONE 10 6197661N 328721E

EVENT 5116226

WORK DONE Sept 4–Oct 18, 2011

DM CLAIM GROUP (see attached list of titles)

For

DONALD K. BRAGG

CLAIM OWNER

WORK DONE BY:

MERIDIAN MAPPING LTD. KEN MACDONALD, BARRY PRICEAND DON BRAGG

Assessment Report Prepared by:

B.J. PRICE GEOLOGICAL CONSULTANTS INC.

Barry James Price, M.Sc., P. Geo., Consulting Geologist

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JUNE 22, 2012

EVENT NUMBER

Event Number ID	5116226
Recorded Date	2011/oct/28
Work Type	Technical Work (T)
Technical Items	Geological (G), Geophysical (P)
Work Start Date	2011/sep/04
Work Stop Date	2011/oct/18
Total Value of Work	$ 52363.47

ASSESSMENT REPORT

TECHNICAL WORK – MAGNETOMETER SURVEY

PINCHI COPPER PROPERTY 2011.

SUMMARY

At the request of Don Bragg (registered owner) and Sointula Resources Inc. (Optionor) the author has prepared this Assessment Report to describe a magnetometer survey completed by Meridian Mapping between 2011/sep/04 and 2011/oct/18 with a total value of Work of $ $52363.47. With this report the author presents a number of figures to illustrate the geology, geochemistry and magnetics of the property, contributed by Dr. Peter Fox and others. Ken MacDonald has completed a NI 43-101 technical report, part of which has been referred to in this report. A great deal of useful information has been gained from the Technical report by Gerald MacArthur P.Geo. on the adjacent Don Don and Grab claims for Lund Gold Ltd. In 2010.

No existing grid had been established in the immediate survey area. Survey lines were therefore run by GPS navigation with only the endpoints flagged. The survey grid was designed to adjoin a ground magnetics survey completed by Meridian in 2008 and extend the coverage to the south and east. A total of 16 lines were surveyed parallel to the UTM grid on a true north azimuth of 88°. 15 Lines were surveyed on 100 meter spacing and a single 50m spaced in-fill line was run in the center of the grid. A total of 37.1 line kilometers were surveyed over four field days.

The magnetic survey was conducted by two operators supervised by Don Bragg and Dugald Dunlop using two GPS equipped GSM Ver 7.0 19W Overhauser walking magnetometers measuring the earth"s magnetic field. Data was recorded at a 3 second interval at the base. This base data was used to apply diurnal correction to the rover data. A 250 meter length of overlap line was walked each morning by both units. Data from this overlap line was used to level the data between the two instruments, between survey days, and between the 2008 and 2011 surveys.

The magnetometer survey correlated well with the airborne survey and provides a number of targets to be examined in the field.

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INTRODUCTION

At the request of Don Bragg and Sointula Resources Inc. the author has prepared this Assessment Report to describe a magnetometer survey completed on the DM claims, Pinchi Copper property by Meridian Mapping in September to October 2011. With this report the author presents a number of figures to illustrate the geology, and magnetics of the property, kindly contributed by Dr. Peter Fox and others. A great deal of useful information has been gained from the Technical report by Gerald MacArthur P.Geo. on the adjacent Don Don and Grab claims for Lund Gold Ltd. In 2010 and contributions were made by prospector Donald K. Bragg, who managed the program Consultant Ken MacDonald who visited the property during the work program for Sointula Resources Inc.

THE COMPANY

Sointula Resources Inc. is at present a private company intending to become a public company on the TSXV subject to approval by the regulatory bodies.

Option Agreement

Sointula has entered into an option agreement, dated August 26th, with Don Bragg, Don Mustard, Barry Price, and Peter Fox (optionor group) for the acquisition of 36 claims collectively known as the DM claims. Sointula may earn a 75% undivided interest in and to the DM claims, subject to a 2% Net Smelter Return, through a combination of cash payments, share issuance and by incurring certain work costs. Prior to the execution date a director of Sointula, Donald Barker, paid to the optionor group a sum of $10,000, the amount being one-half of the first payment required under the terms of the option agreement. One-half, or 1%, of the royalty may be purchased by Sointula by payment of $1,000,000.00 at any time commencing upon the date of commercial production on the DM claims and expiring ten years thereafter. The option has a 5 year term during which time there shall be cumulative cash payments of $200,000, the issuance of 500,000 shares of Sointula and exploration expenditures of $1,500,000.00. Sointula and the Optionor group will form a joint venture upon completion of the 75% earn-in.

PROPERTY DESCRIPTION AND LOCATION

The DM property described here is 36 claims covering approximately 13,841 hectares. The claims are contiguous and have not been surveyed, but cell corners are referenced to geographical coordinates that may be precisely located in the field by GPS or theodolite surveys. The claims are listed below:

MINERAL TITLES

DM CLAIM GROUP
Donald K Bragg
Event 5116226

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
832385	DM 1	103083 (100%)	093N	2010/aug/30	2012/oct/01	435.1059
832386	DM2	103083 (100%)	093N	2010/aug/30	2012/oct/01	217.4853
832388	DM 3	103083 (100%)	093N	2010/aug/30	2012/oct/01	434.8297
832389	DM 4	103083 (100%)	093N	2010/aug/30	2012/oct/01	434.7963
832390	DM 14	103083 (100%)	093N	2010/aug/30	2012/oct/01	290.2282
832396	DM 15	103083 (100%)	093N	2010/aug/30	2012/oct/01	362.8919
832400	DM 5	103083 (100%)	093N	2010/aug/30	2012/oct/01	434.6174
832401	DM 36	103083 (100%)	093N	2010/aug/30	2012/oct/01	434.581
832409	DM16	103083 (100%)	093N	2010/aug/30	2012/oct/01	435.6312
832410	DM 39	103083 (100%)	093N	2010/aug/30	2012/oct/01	434.5822
832413	DM 40	103083 (100%)	093N	2010/aug/30	2012/oct/01	434.389
832415	DM 12	103083 (100%)	093N	2010/aug/30	2012/oct/01	453.2947
832420	DM 13	103083 (100%)	093N	2010/aug/30	2012/oct/01	453.2921
832421	DM 41	103083 (100%)	093N	2010/aug/30	2012/oct/01	434.4202
832426		103083 (100%)	093N	2010/aug/30	2012/oct/01	434.2028
832428	DM 6	103083 (100%)	093N	2010/aug/30	2012/oct/01	325.8506
832430	DM7	103083 (100%)	093N	2010/aug/30	2012/oct/01	362.1076
832433	DM 8	103083 (100%)	093N	2010/aug/30	2012/oct/01	434.3488
832434		103083 (100%)	093N	2010/aug/30	2012/oct/01	434.5783
832436	DM 18	103083 (100%)	093N	2010/aug/30	2012/oct/01	363.1005
832437		103083 (100%)	093N	2010/aug/30	2012/oct/01	434.6299
832439	DM 9	103083 (100%)	093N	2010/aug/30	2012/oct/01	271.3952
832440	DM 10	103083 (100%)	094C	2010/aug/30	2012/oct/01	434.2459
832441		103083 (100%)	093N	2010/aug/30	2012/oct/01	362.2047
832442		103083 (100%)	093N	2010/aug/30	2012/oct/01	452.979
832444	DM 11	103083 (100%)	094C	2010/aug/30	2012/oct/01	434.1674
832445		103083 (100%)	093N	2010/aug/30	2012/oct/01	452.9081
832446		103083 (100%)	093N	2010/aug/30	2012/oct/01	452.9154
832447		103083 (100%)	093N	2010/aug/30	2012/oct/01	72.4291
832448		103083 (100%)	093N	2010/aug/30	2012/oct/01	453.0826
832449	DM 36	103083 (100%)	093N	2010/aug/30	2012/oct/01	452.9931
832451		103083 (100%)	093N	2010/aug/30	2012/oct/01	452.9095
832452	DM 37	103083 (100%)	093N	2010/aug/30	2012/oct/01	90.6208
832454	DM 17	103083 (100%)	093N	2010/aug/30	2012/oct/01	362.8457

832456	DM 38	103083 (100%)	093N	2010/aug/30	2012/oct/01	162.9592
832457		103083 (100%)	093N	2010/aug/30	2012/oct/01	453.2471
36 claims						13840.87

The claims are contiguous and have not been surveyed, but cell corners are referenced to geographical coordinates that may be precisely located in the field by GPS or theodolite surveys.

Sointula has submitted a notice of work for a permit to authorize planned 2012 exploration on the Pinchi Property. Low-impact exploration including mapping and geochemical sampling does not require a permit. Sointula has also consulted with the Takla native band.

Location

The DM property is located approximately 275 kilometers northwest of Prince George, B.C. in the Omineca Mining Division. The property runs along the east side of the Omineca River from Omnicetla River and Mount Ogden in the north, southwards. to Kelly Lake (Fig. 1a and 2).

The property has no road access but logging and mining access roads allow access to Ogden Mountain, to the west, and to Haha Creek to the east.

Ogden Mountain is accessed by paved and all weather gravel roads from Prince George through the town of Fort St. James, then north along the Leo Creek and Driftwood main forestry roads to Takla Landing and Lovell Cove. From Lovell Cove, travel east on the Fall River forestry access road to Kelly Lake where the east and west Ogden forestry roads give access to Ogden Mountain. Similarly, paved roads to Mackenzie and the Omineca Mine road give access to Osilinka River and branch logging roads extend to logging clearings on Haha Creek. This road is in disrepair or has been decommissioned; the cost of repairs may be excessive to consider access. Consequently most of the claims area requires a helicopter for access and for further work a camp may have to be set up at a convenient point on Omineca River.

Local Resources and Infrastructure

The area is somewhat isolated and there are no local resources for food, accommodation, fuel or propane. The Osilinka Forestry camp, is located 26 road kilometers east of the property but is presently closed and not expected to re-open in the near future. All supplies and services must be brought in from Prince George, Mackenzie or Fort St. James. Hydroelectric power is

available 60 kilometres to the east from the Kemess Mine transmission line (230 kW). The CNR (BC) rail line and power exists (38.5 kW) along Takla Lake, 40 kilometres to the west.

Climate and Physiography

The climate in north central BC is typically cool and moderate with warm moist summers and cold winters. The lower claim elevations are snow free from May to November while at higher elevations snow may linger until June and occur again by September. Total snowfall is not excessive, usually less than one meter, and would not affect any mining.

Elevations on the property range from approximately 800 meters along the Omineca River to around 2000 meters at the height of land in the mountains north of Haha Creek.

Glacial till and fluvioglacial outwash material blanket the valley bottom and lower elevations limiting out crop exposure to occasional creek gullies and ridge tops. A thick growth of mature spruce, balsam and pine cover much of the lower elevation and extends up to the tree line at about 1650 meters elevation. There is sufficient room for any proposed type of mining exploration and development.

HISTORY

The DM/ property is an early stage exploration project and there is no known historic record of any work being performed on much of the property apart from the small Mariposite zone on the west side of Omineca River. Previous work in the general area dates to the 1930's when mercury and gold were explored for along the Pinchi fault. Exploration in the late 1950's and early 1960's was focused on the many copper occurrences found in the area. In the 1970's exploration again focused on copper and numerous airborne and ground geophysical, geochemical and geological surveys were carried out on nearby properties such as Lorraine and Takla Rainbow. In the 1970's road access was gained to Ogden Mountain when good quality jade was discovered at several locations there. Results of these surveys are documented in the numerous assessment reports filed with the Mines branch of the BC government.

Recent exploration has increased significantly as a result of the discovery of the Mount Milligan copper-gold deposit in 1987 followed by the discovery of the Kwanika copper-gold deposit of Serengeti Resources in 2006 both in the same belt of rocks.

2005:

In 2005, Lysander Minerals Corp. staked the easterly adjacent Pinchi project to cover the extension of the Lorraine copper-gold occurrence optioned to Teck Corp. They initially completed geochemical sampling and prospecting. In 2007, Fugro Airborne Surveys conducted a heliborne magnetic and electromagnetic survey over the Pinchi property outlining several strong geophysical (magnetic) anomalies including a weak magnetic anomaly along the Omineca River. Peter E. Walcott and Associates, in 2008, carried out limited ground magnetic and induced polarization surveying for Lysander to further define some of the Pinchi project airborne geophysical anomalies. Adjacent claims to the south also had airborne magnetics and EM flown.

The Pinchi project was subsequently optioned to Amarc Resources in 2009. Amarc, as part of their option agreement, completed a two-hole drill program late in 2009, which tested a strong IP and magnetic geophysical anomaly near the Omineca River. Results were not encouraging but the drillholes may not have been placed in the best spot.

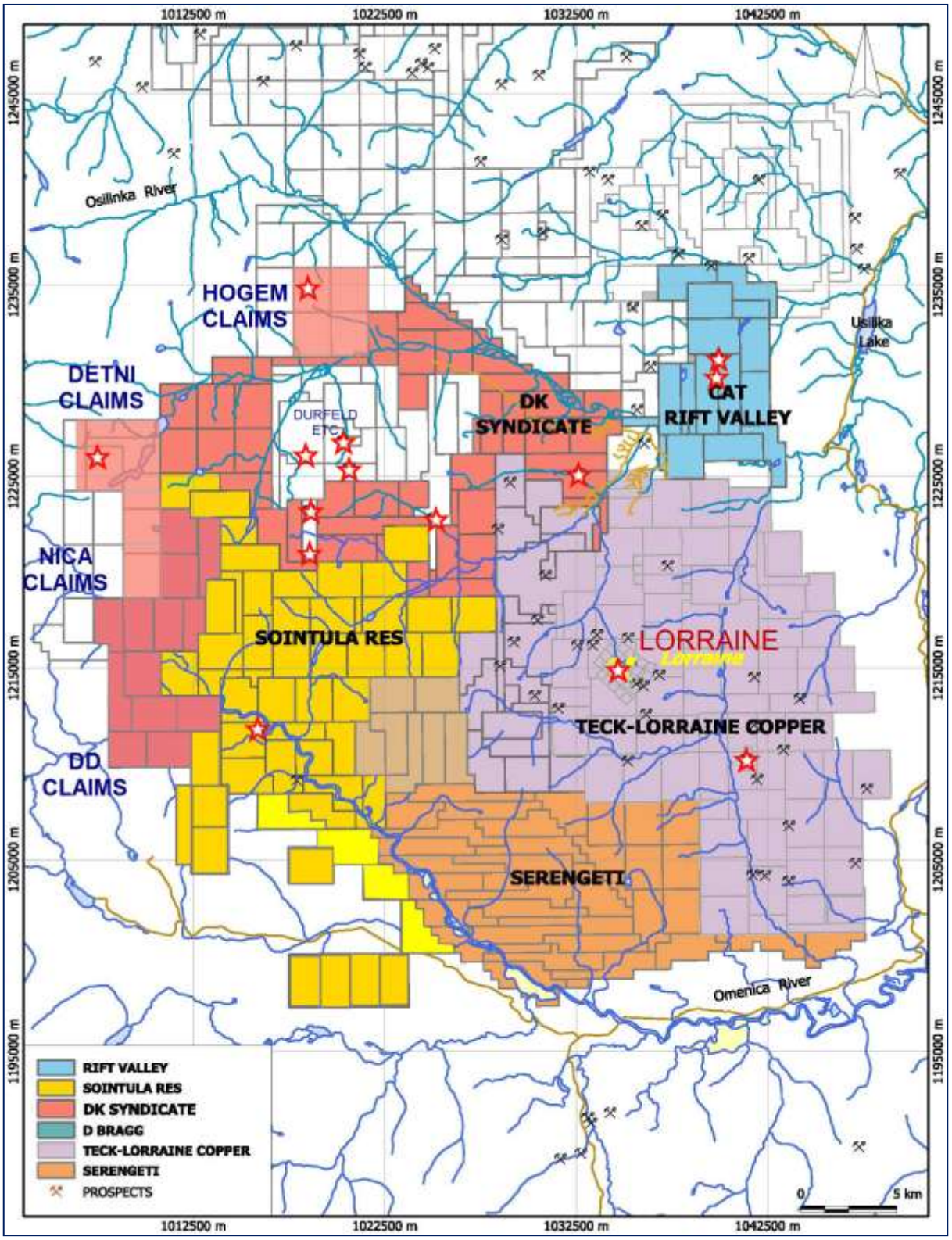
The Don-Don property area was covered by the wide spaced (4 km) magnetic and electromagnetic Quest airborne geophysical program funded by Geoscience BC. The Quest survey identified several EM conductors, which were staked by prospector Don Bragg.

2008-09

MacDonald states (2012): Lysander conducted a ground IP/Magnetometer survey in 2008 on their Pinchi Claim Block (Mustard, 2009). The work consisted of line cutting and induced polarization ("IP") survey in the Omineca River valley to test a prominent geophysical anomaly (the "Mustard Anomaly") derived from regional airborne magnetic and electromagnetic survey carried out by Lysander in 2007. The IP survey was conducted on ground that is now part of the DM claims group. A total of 40 line kilometres were cut and a total of 10.1 line kilometres of IP geophysical survey were conducted. The program was terminated early due to poor weather. The limited IP survey did confirm the "Mustard Anomaly" adjacent to the Pinchi Fault. Prior to commencement of the IP survey, Lysander had compiled regional government and industry geophysical data. They identified a strong magnetic high anomaly that conformed to the mapped extents of the Hogem Batholith (Figure 11). They loosely coined this anomaly the "Fist of God". Parallel lineaments in the data were suggestive of rift related faults – two of which (the West Fault and the Central Fault) appear related to the known margins of the Duckling Creek Complex.

FIGURE 1. LOCATION MAP

FIGURE 2. MINERAL TITLES IN THE AREA



GEOLOGICAL SETTING

Regional Geology

The Pinchi property is situated in the north-central portion of the Quesnel Terrane, part of the northwesterly trending Intermontane Belt and a major tectonic-metallogenic volcanic belt extending almost the full length of British Columbia (Figure 6 and Figure 7).

The Quesnel Terrane includes parts of the Paleozoic basement (Cache Creek – Asitka Groups), Upper Triassic and Lower Jurassic age volcanic and sedimentary lithologies comprising the Nicola, Takla and Stuhini Groups (locally Takla Group), granitic plutons of middle to late Mesozoic age, the Hogem Batholith and satellite Duckling Creek intrusions and Tertiary volcanic and sedimentary rocks. The northwest-elongate Late Triassic to Early Cretaceous Hogem Intrusive Complex, 170 kilometres long and 40 kilometres wide, is intruded into the Quesnel Terrane.

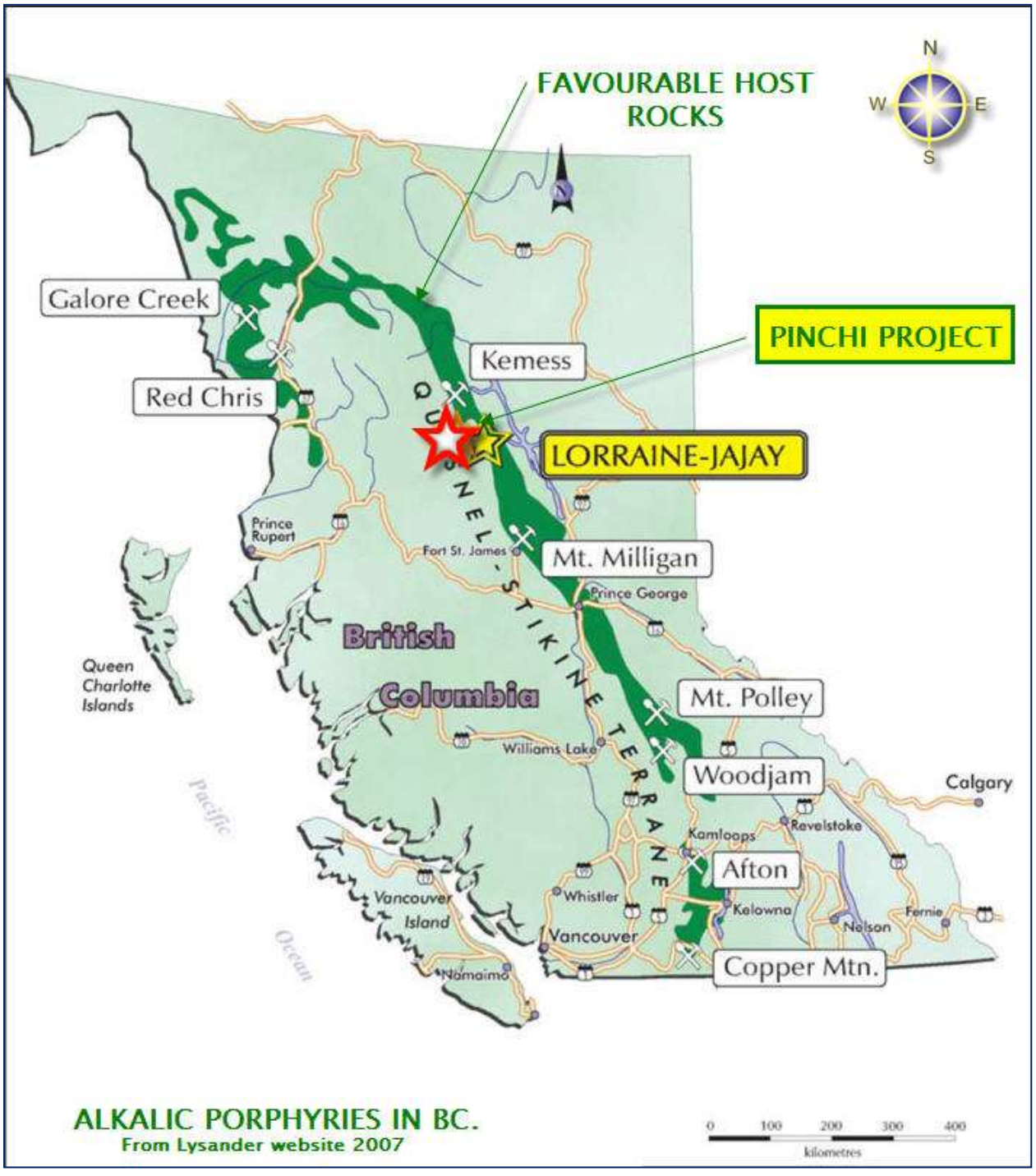
The Quesnel Terrane is host to several alkalic porphyry copper deposits notable for their significant gold content. Examples include

- Copper Mountain,
- Afton,
- Cariboo-Bell (Mt. Polley),
- Mt. Milligan,
- Lorraine and
- Kemess

Regional fault systems bound the Quesnel Terrane. The Pinchi Fault forms the west boundary and the Swannell Fault the east. The Pinchi fault, which in large part separates the Cache Creek Terrane from the Takla Group and Hogem batholithic intrusive rocks, cuts through the center of the property and may be a composite structure with several splays.

FIGURE 3. QUESNELLIA TERRANE WITH PORPHYRY COPPER GOLD DEPOSITS

(Contributed by Donald K. Mustard)



LIST OF COPPER GOLD ALKALIC PORPHYRY DEPOSITS IN B.C.

QUESNELLIA GOLD COPPER PORPHYRIES				
METAL	COPPER	GOLD	SILVER	
PRICES	$3.00	$1,500	$30	
PROPERTY	COPPER B POUNDS	GOLD M.OZ	SILVER M. OZ.	GMV $ BILLION
KERR SULPHURETS MITCHELL	12.7	49	261	$119.43
PRETIUM Brucejack/Snowfield	3	50	245	$91.35
RED CHRIS (M+I)	8.8	12.8	44	$46.92
GALORE CREEK	9	8	150	$43.50
MT MILLIGAN	5	13.5		$35.25
COPPER MOUNTAIN	6.43	2.1	24.5	$23.18
AJAX	3.04	2.8	0.07	$13.32
KWANIKA	2.5	2.6		$11.40
KEMESS NORTH/SOUTH	2.3	7	0.16	$17.40
AFTON	3	2.2	14	$12.72
MT. POLLEY	1.8	2.4	8	$9.24
WOODJAM				
LORRAINE				
TAS				
GJ				
AND OTHERS				
TOTALS rounded	**57.57**	**152.4**	**746.73**	$423.71

Local Geology

Local Geology of the Omenica River area is described by Amarc (2007) as follows:

The property is underlain by upper Paleozoic and lower Mesozoic oceanic rocks of the Cache Creek Complex – Phyllite, quartzite and metachert of the Early Permian to Late Jurassic Sowchea Succession contain lenses of limestone, marble, minor basalt and chert of the upper Pennsylvanian to lower Triassic Copley Limestone.

These fine-grained clastic and carbonate rocks are bounded on the northeast across the Pinchi fault by monzonitic to monzogranitic rocks of the Early Jurassic Hogem Plutonic suite and the

upper Triassic to Lower Jurassic Takla Group turbidites. The Cache Creek sedimentary packages are bounded to the southwest by Late Pennsylvanian to Middle Triassic serpentinized ultramafic rocks of the Cache Creek Trembleur Ultramafite Unit which also bound the sediments to the northeast at the north end of the claim group (Schiarizza, 1999).

Up until 2010, the only showing known was the Mariposite mercury occurrence. However the drill program by Lund Gold (McArthur 2010) revealed porphyry style copper gold mineralization in Drill hole No. 2, situated on the Omineca River (Grab 1 claim). The mineralization appears to be in Takla volcanic rocks affected by potassic alteration.

Of most interest in the area are a series of magnetic anomalies which are thought to be:

- Magnetic phases of the Duckling Creek mafic/alkalic igneous complex, or
- Magnetic basaltic volcanics of the Takla volcanic group, or
- Ultramafic lenses along the Pinchi fault system

The eastern part of the DM claims is underlain mainly by intrusive phases of the Hogem Batholith, including phases known as the Duckling Creek syenitic complex. The area is described by Ken MacDonald:

"Regionally, the Hogem Batholith, including the Lorraine, Tam, Dorothy, and Elizabeth prospects. Copper mineralization in the Duckling Creek syenite generally consists of chalcopyrite, bornite, chalcocite, covellite and malachite in strongly foliated and K-spar altered migmatite. Gold and silver values are commonly associated with the copper sulphides.

Limited drilling by Lund Gold in 2009 revealed weak but persistent chalcopyrite mineralization over an interval width of 80 meters in Takla Group volcanics; close to the fault bounded contact with the Hogem Batholith; and within the trace of the Pinchi Fault. This occurrence, although not strictly hosted in porphyritic intrusive rocks, may be indicative of stronger copper mineralization across the fault in intrusive rocks, or at depth in intrusive rocks beneath a roof pendant of volcanic rocks.

FIGURE 4. GEOLOGICAL SETTING AND MINERALIZATION

(From Lysander 2009)

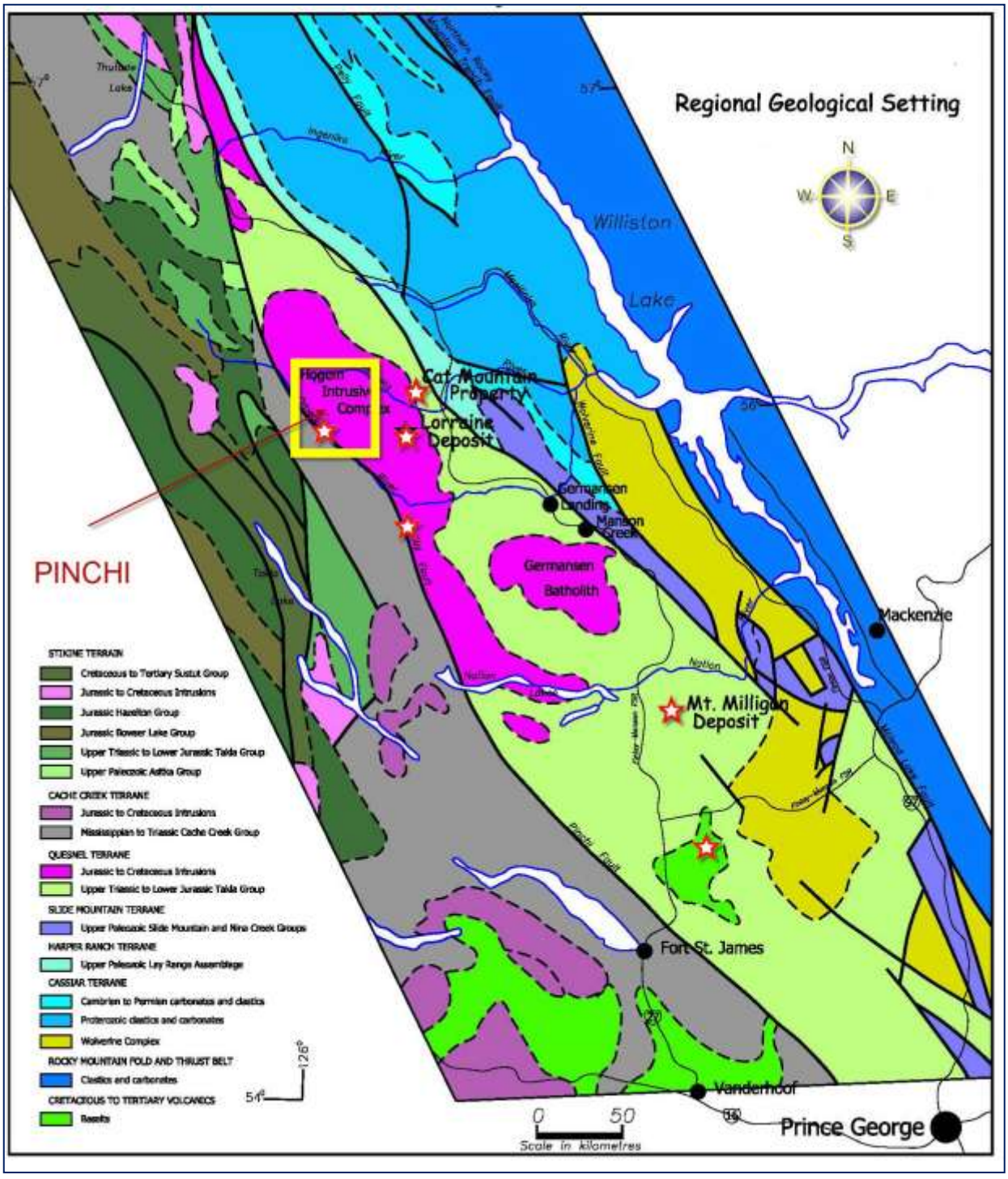


FIGURE 5. REGIONAL GEOLOGY (Price 2011)

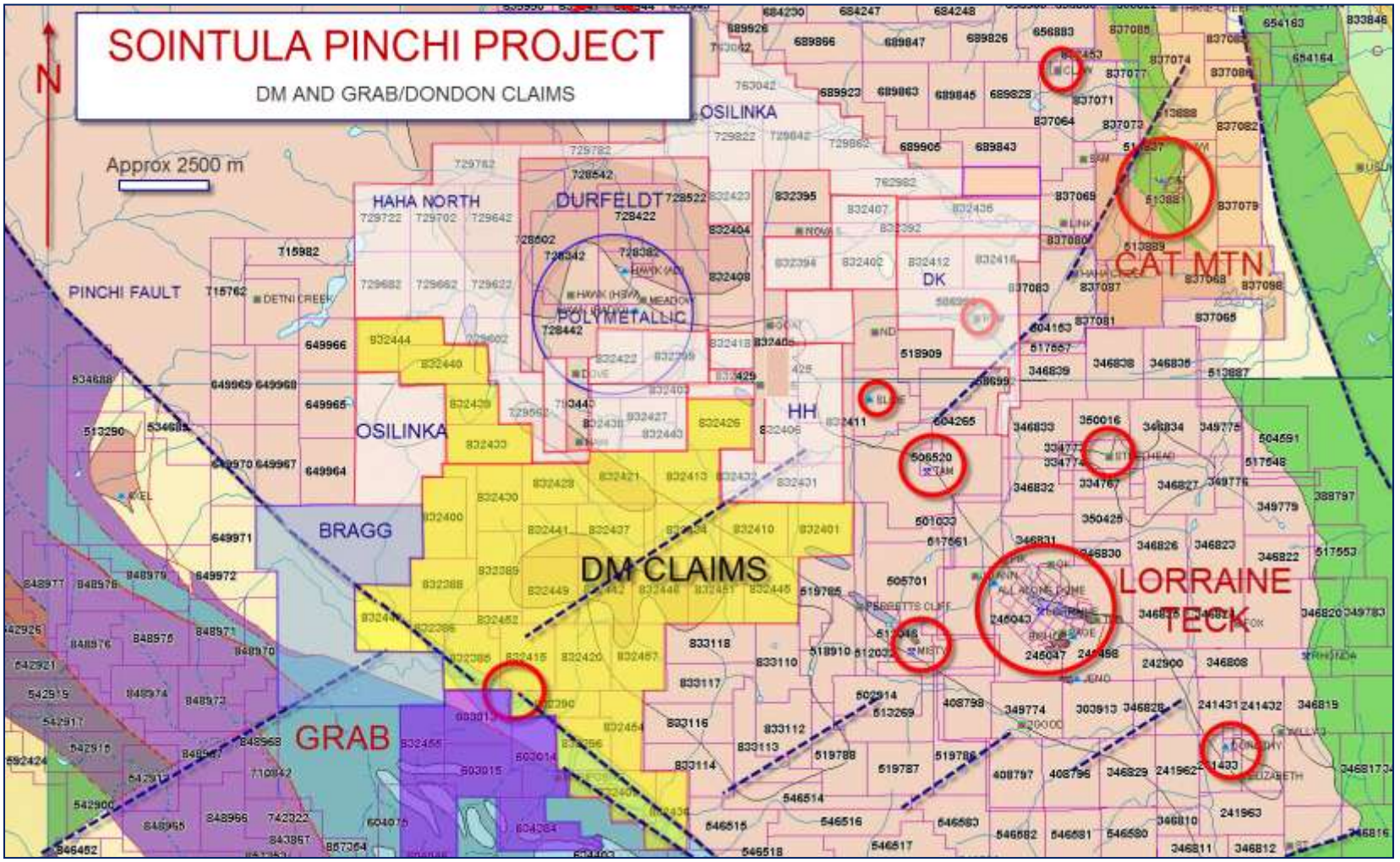
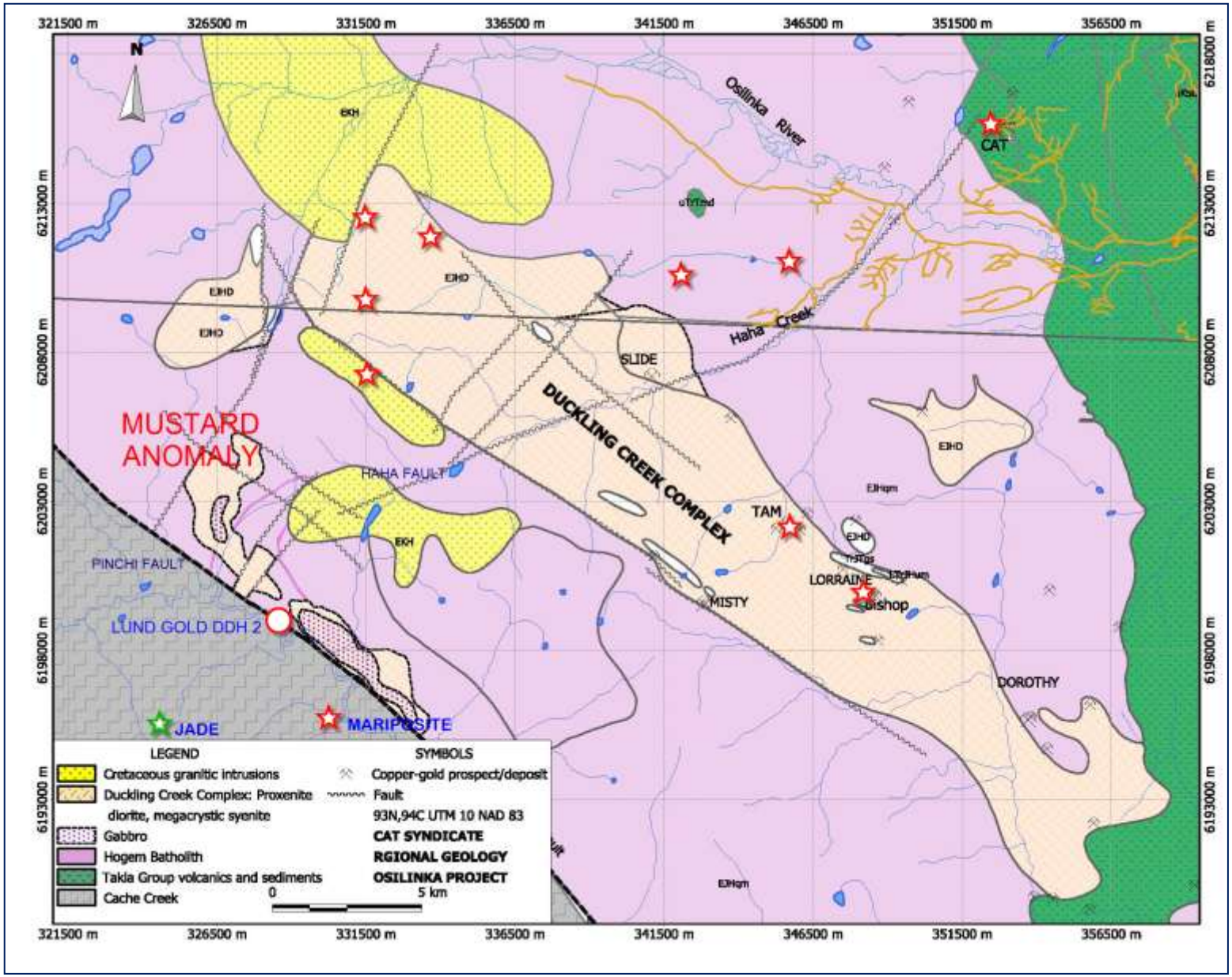


FIGURE 6. LOCAL GEOLOGY (PETER FOX 2012)



MINERALIZATION AND DEPOSIT TYPES

There are a variety of mineralization types in the area|:

1. Mercury mineralization (cinnabar) in altered ultramafics at Mariposite Creek
2. Nephrite Jade deposits at sediment and granite/ultramafic contacts
3. Placer gold
4. Stratiform mafic igneous vanadium layers in the Axelgold area.
5. Gold Silver polymetallic veins (Hawk and Dove property)
6. Porphyry copper mineralization (Grab 1 claim and nearby Lorraine Misty etc. deposits
7. Magnetite gold bodies associated with suspected porphyry gold/copper at Cat Mountain

Mariposite showing

As described by Minfile (MINFILE No 093N 065) the showing is located on Mariposite Creek, on the east side of Ogden Mountain, in a creek flowing eastward into Omineca River. Minfile Location is Latitude 55° 52' 37" N and Longitude 125° 42' 47" W or, UTM 10 (NAD 83) Northing 6195711 Easting 330279

The Mariposite occurrence is situated on Mariposite Creek, which drains into the Omineca River approximately 48 kilometres north-northeast of Takla Landing. Although sedimentary rocks assigned to the Carboniferous to Jurassic Cache Creek Complex predominate in the area, the occurrence is reported to be associated with a small sill(?) of altered serpentinite, formerly assigned to the Middle Permian to Late Triassic Trembleur intrusions and now termed Mississippian to Triassic Oceanic Ultramafites.

Mineralization is reported to consist of crystals of cinnabar hosted by carbonatized serpentinite outcropping in Mariposite Creek (Geological Survey of Canada Memoir 252, page 171).

In 1983 Golden Porphyrite conducted work on their Jo claims which covered Mariposite Creek, including the plotted location of the Mariposite cinnabar occurrence. Work done by Golden Porphyrite in 1983 consisted of Geological mapping and prospecting. An area of 40 square kilometers was mapped, 760 soil samples, 73 rock chip samples and 6 heavy sediment samples were collected. In 1984, Golden Porphyrite conducted further work including mapping and prospecting over an area of approximately 40 square kilometers. A total of 71 geochemical rock chip, 874 soil and 38 heavy sediment samples were collected.

The Grand North property was acquired by Amarc Resources Ltd. by staking in 2007. The property consisted of 26 claims covering an area of 11,683.71 hectares, stretching over 30 kilometres along the southwest side of the Omenica River An airborne magnetic gradiometer survey was flown over the property by in April 2007. The survey comprised 230.7 line km at a spacing of 200 metres. A series of west-northwest trending magnetic highs were outlined by the survey that likely reflect contrasts between volcanic and sedimentary rocks.

The occurrence is described in the following ARIS reports: 12549, 13971, 29785

Burton documents positive gold values in heavy mineral samples from several creeks:

- Mariposite Creek: a weakly anomalous value of 260 ppb Au
- On the Jo 127 claim An unnamed creek flowing eastward had anomalous values of 11,400 ppb and 1,150 ppb Au.
- On the Jo 128 claim, An unnamed SE flowing creek has values of 40, 200, 560 and 2600 ppb Au with tributaries with values of 1,600 and 28,000 ppb Au.

MacDonald (2012) reports that "Placer gold is known from this area; as well as significant occurrences of mineable quantities of nephrite. It's possible there are listwanite gold occurrences in this area which has seen little exploration. Mineralization is known from Cache Creek Group rocks in the Spruce Creek placer mining area, near Atlin, BC. The mineralization at the Golden View prospect (MINFILE 104N 042) is hosted in a tectonically dismembered ophiolitic assemblage of rocks dominated by listwanite-altered ultramafic and meta-igneous units. Both structure and contact relationships are known to be important factors in confining the alteration and mineralized zones.

Porphyry targets

Regionally, the Duckling Creek complex within the Hogem Batholith is host to most of the alkalic porphyry copper gold deposits in the Hogem Batholith, including the Lorraine, Tam, Dorothy, and Elizabeth prospects. Copper mineralization in the Duckling Creek syenite generally consists of chalcopyrite, bornite, chalcocite, covellite and malachite in strongly foliated and K-spar altered migmatite. Gold and silver values are commonly associated with the copper sulphides.

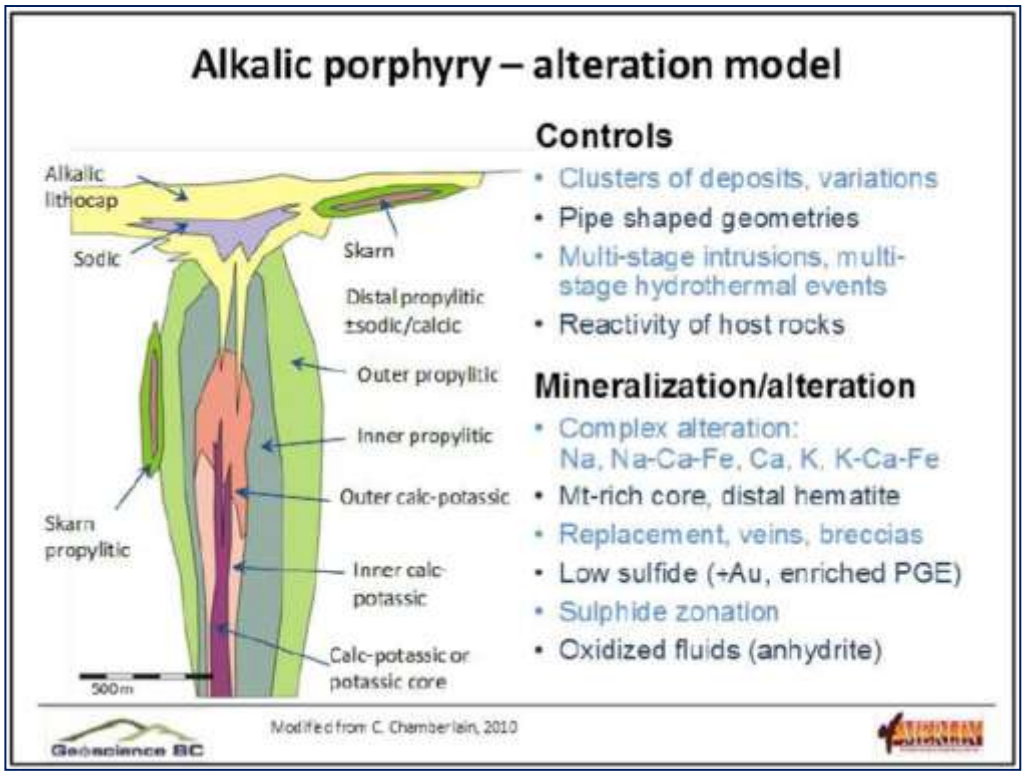
MacDonald comments: The proximity of the Pinchi Property to the Pinchi Fault and to the Hogem Batholith suggests the primary exploration target is an alkalic porphyry copper-gold deposit hosted in foliated, migmatized and K-spar altered Duckling Creek Syenite Complex. Alkalic porphyry deposits in BC are typically characterized by stockworks, veinlets and disseminations of pyrite, chalcopyrite, bornite and magnetite in large zones of bulk-mineable mineralization, in or adjoining porphyritic intrusions of diorite to syenite composition.

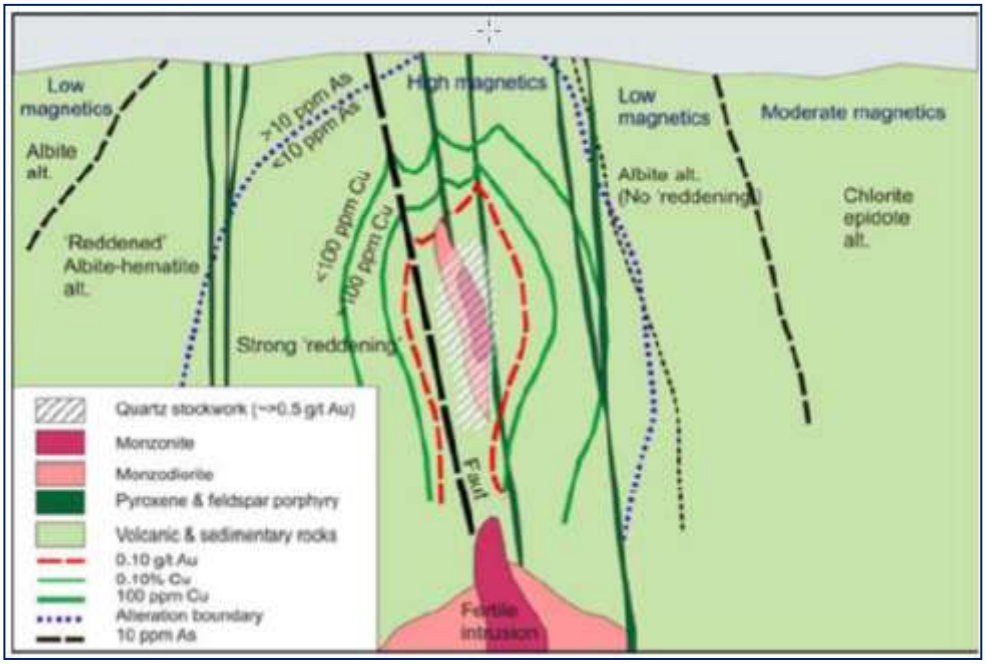
The mineralization is typically spatially, temporally and genetically associated with hydrothermal alteration of the intrusive bodies and host rocks. A generalized alteration model of an alkalic porphyry deposit is shown in the following Figure. Typical features include:

- Pipe shaped geometry
- Multistage intrusive events with accompanying and increasingly complex multi-stage
- hydrothermal (and over-printing) alteration assemblages
- Potassic core enveloped by Propylitic zones
- Magnetite-rich core can be useful for detection by airborne-ground geophysical methods
- Low-sulphide content but distinctive sulphide zonation evident

British Columbia alkalic porphyry deposits range from <10 to >300 Mt and contain from 0.2 to 1.5 % Cu, 0.2 to 0.6 g/t Au and >2 g/t Ag. Median values for 22 British Columbia deposits with reported reserves (with a heavy weighting from a number of small deposits in the Iron Mask batholith) are: 15.5 Mt with 0.58 % Cu, 0.3 g/t Au and >2 g/t Ag (Panteleyev, 1995).

FIGURE 7 AND 8 . DIAGRAMMATIC DEPOSIT MODELS (MDRU)
(Fiannuala Devine 2011)





EXPLORATION 2011

In 2011, orthophoto map preparation was completed by Photosat, and following this, a preliminary ground magnetic survey was completed by Meridian Mapping Ltd. Using helicopter access, under the supervision of Don Bragg, prospector and Dugald Dunlop, P.Geo. Ken MacDonald, P.Geo. visited the property during the work and began preparation of a NI 43-101 report. Don Bragg compiled costs for the project. The assessment report was written by Barry Price, M.Sc., P.Geo.

Between October 6th and 10th 2011, Meridian Mapping Ltd. completed a ground magnetometer survey over a portion of the Pinchi Property in the Omineca region of British Columbia for Sointula Resources Inc.

Ken MacDonald, P.Geo. conducted a field examination of the Pinchi Property over a two-day period from October 5th, 2011 for the purpose of examining the project site, collecting representative geological samples, assessing the geology, styles of mineralization and alteration on the property, and to confirm location on certain of the mineral claims. MacDonald also examined and sampled select pieces of drill core from one diamond drill hole drilled in 2009 by Lund Gold. The drill core from the 4-hole drill program was removed from the property in 2009 and has since been in secure storage in a fenced and locked yard owned by Falcon Drilling, a diamond drill contractor located in Prince George, BC.

No existing grid had been established in the immediate survey area. Survey lines were therefore run by GPS navigation with only the endpoints flagged. A total of 20 lines were surveyed on an azimuth of 35.3°. 18 lines were surveyed on the north side of the Omineca River, 17 of them on 200m spacing and the 18th (southern most line) on 400m spacing. Two lines were established on the south side of the Omineca River on a 200m spacing. A total of 48.2 line kilometers were surveyed over five field days.

The program outlined a number of strong magnetic targets which are worthy of follow-up. Specifications of the survey are attached in Meridians logistics report. The anomalies are shown on the following pages.

FIGURE 9. REGIONAL MAGNETIC PLAN (MAP PLACE)

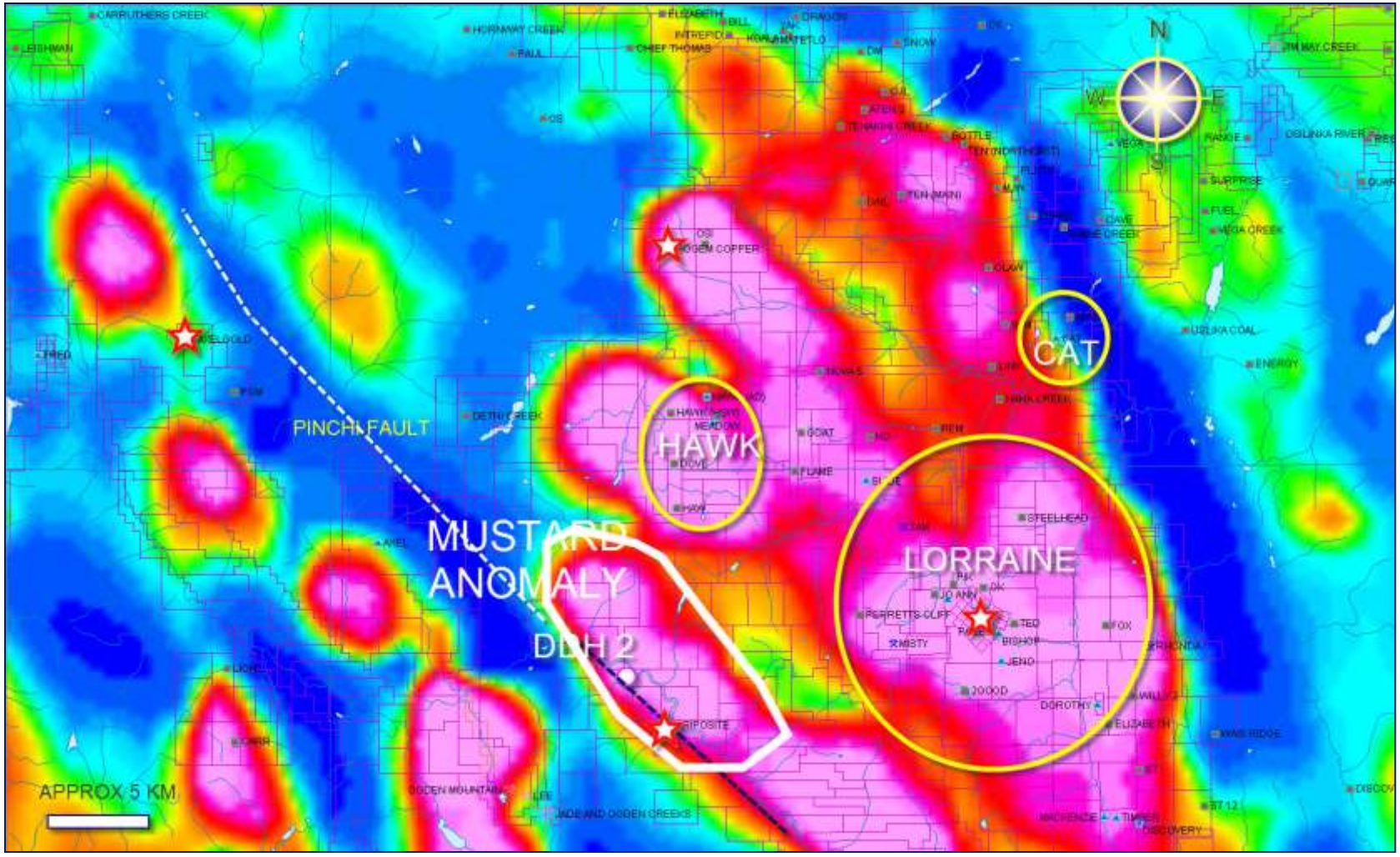


FIGURE 10. AIRBORNE MAGNETIC SURVEY (LYSANDER 2007)

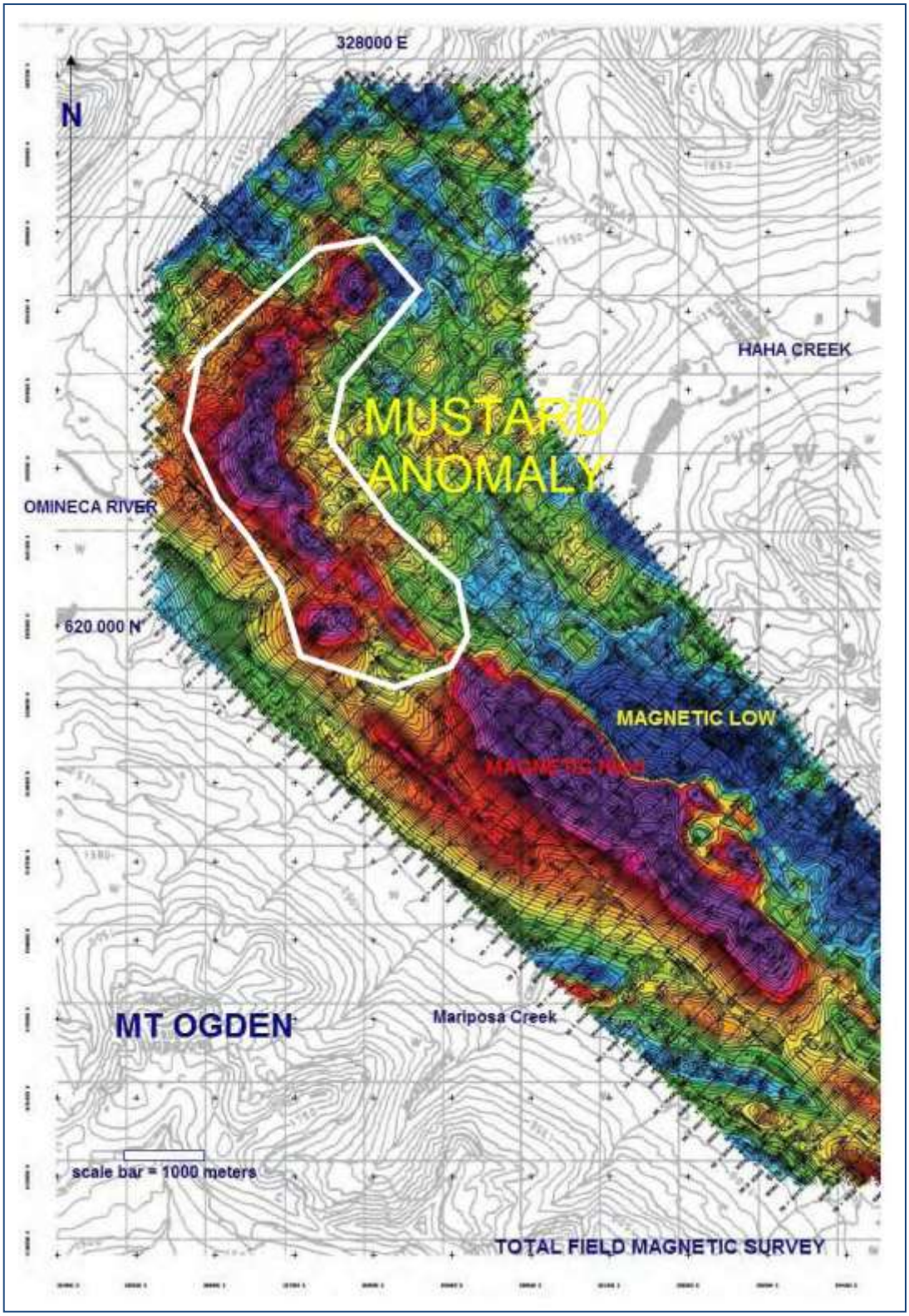


FIGURE 11. MERIDIAN GROUND MAGNETIC SURVEY RAW DATA

(As received from Meridian)

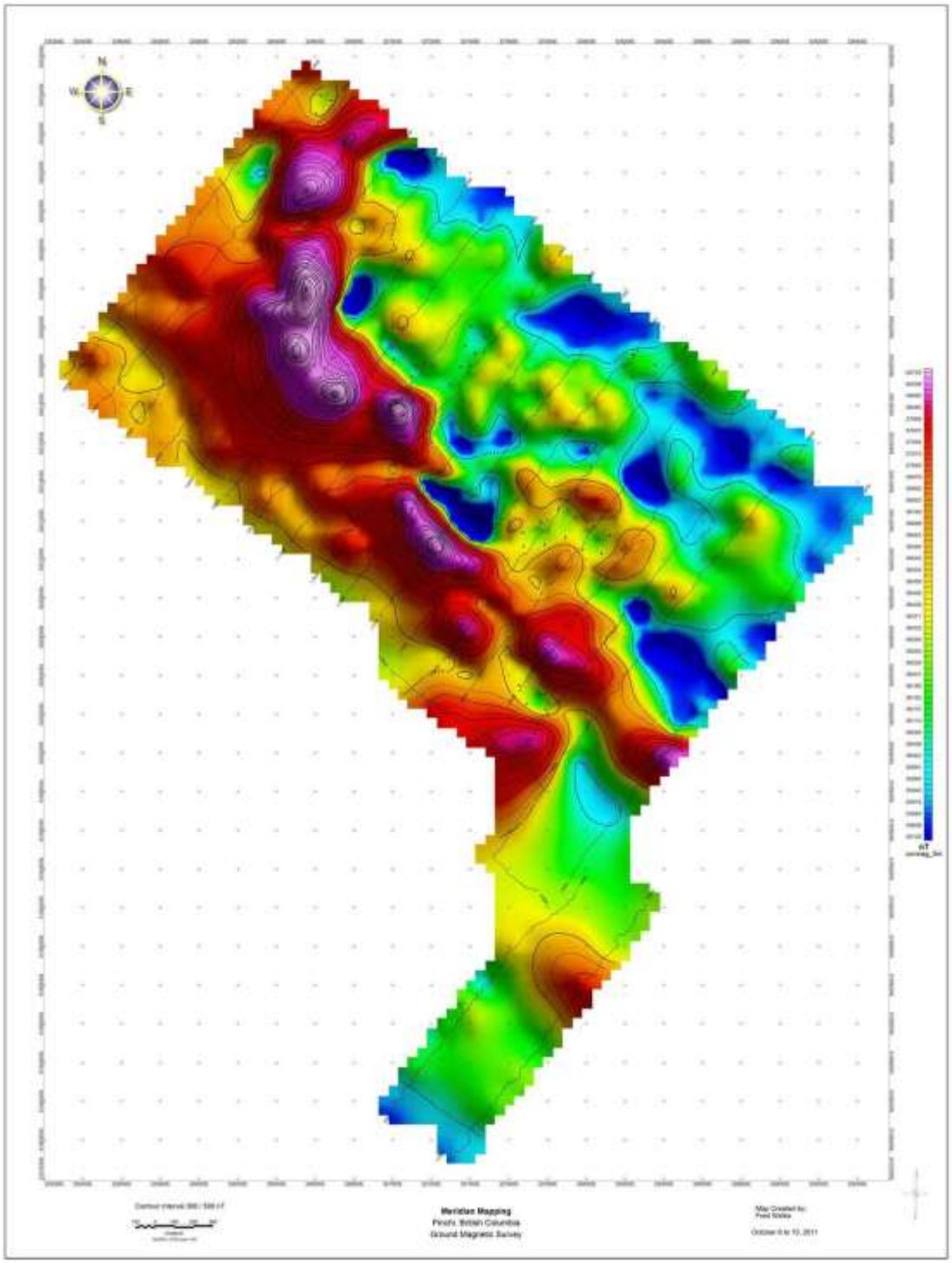


FIGURE 12. MAGNETIC ANOMALIES SUPERIMPOSED ON TOPOGRAPHY

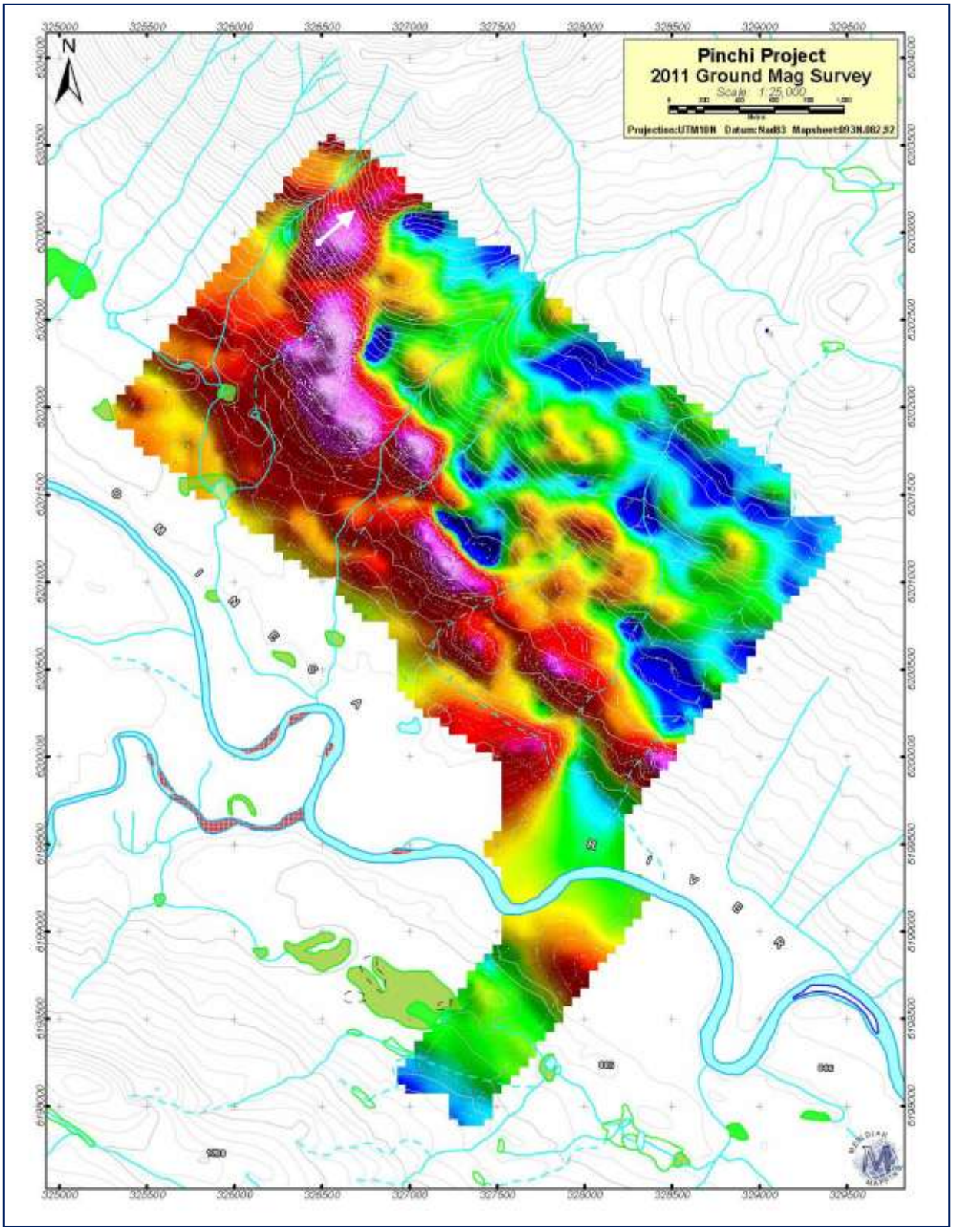
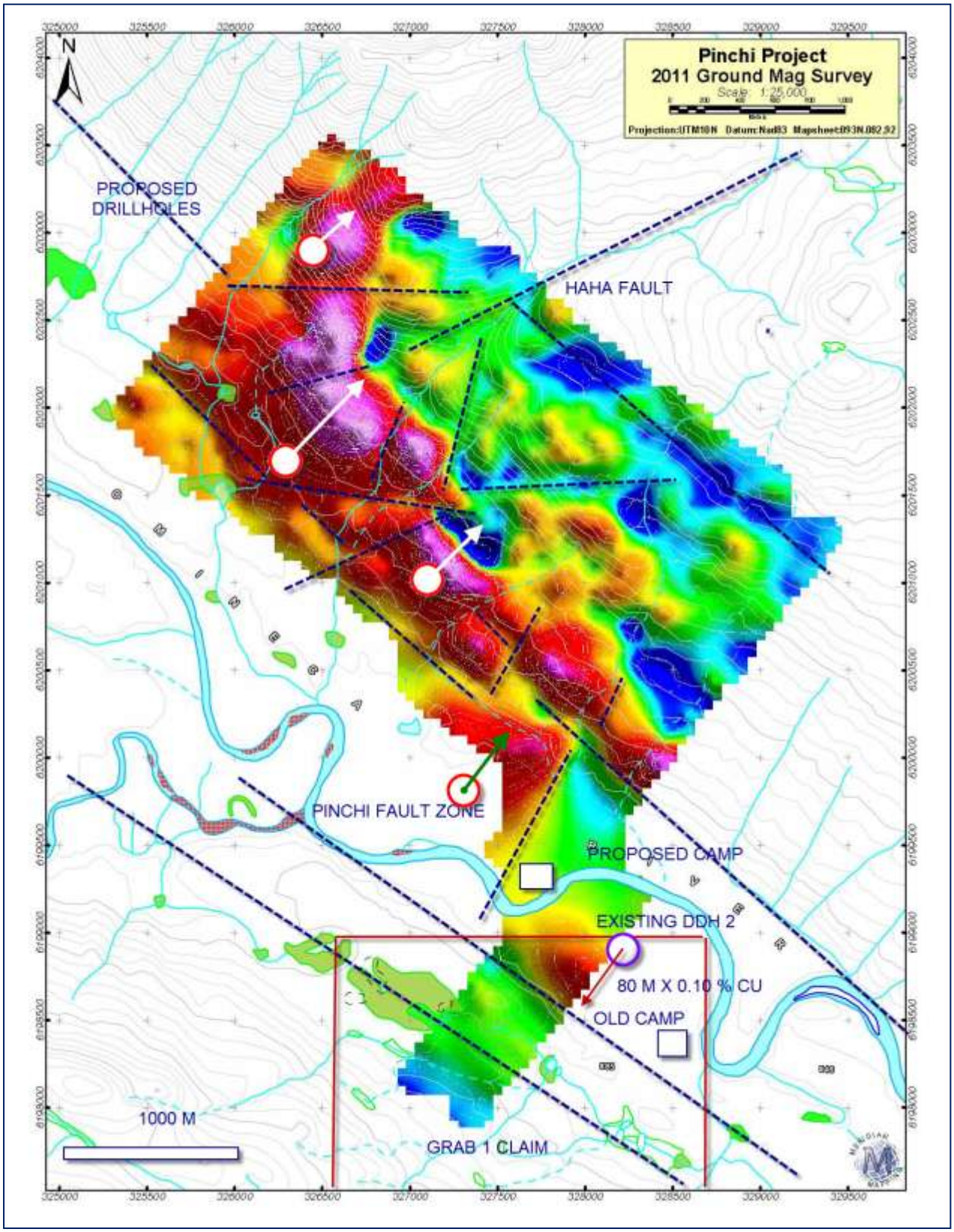


FIGURE 13. 2011 MAGNETOMETER SURVEY

(Interpretation by BJ Price Geological for this report)



2011 SAMPLES

Due diligence samples from the Lund Gold DDH 2 mineralized intercept of 80 m x 0.10 % Copper are given below:

KEN MACDONALD SAMPLES FROM LUND GOLD CORE. 2011									
Sample #	Depth (m)	Length (m)	DDH #	Sample #	From (m)	To (m)	Length (m)	Au ppb	Cu ppm
DL11-KM02	22.7	0.3	09DD 2	331228	22	23	1	300	2730
DL11-KM 03	41.6	0.4	09DD 2	331249	41	42	1	200	370
DL11-KM 04	54	0.35	09DD 2	331263	54	55	1	100*	3140
DL11-KM 05	70.3	0.4	09DD 2	331281	70	71	1	100	1450
DL11-KM 06	121	1	09DD 2	331335	121	122	1	100	382
DL11-KM 07	141.3	0.5	09DD 2	331357	141	142	1	100	2940

100 ppb = detection limit

The samples compare favorably with the Lund Gold sampling.

ADJACENT PROPERTIES

Don Don Grab Property

In 2009, Lund Gold Ltd. Explored the adjacent Don-Don and Grab claims owned by Don Bragg. Falcon Drilling of Prince George BC was contracted to drill test several of the Don-Don project geophysical anomalies located on the northern Grab 1 and 2 claims. A helicopter portable F-2000 drill was mobilized to the property November 15, 2009. The drill crew was based at the same Kelly Lake Atco trailer camp utilized for the line cutting and geophysics. Drill crews worked two shifts daily and mobilized by helicopter to the property.

Four holes were drilled from three set-ups (Fig. 6) and these holes tested two different geophysical anomalies. A total of 682 meters of BTW core (42mm) was drilled. Drill logs and assay sheets are located in Appendix 3.

Three holes 09DD-02, 3 and 4 tested the northern anomaly at two separate locations 400 meters apart. These holes intersected variably altered and mineralized volcanic rocks thought to be part of the Triassic-Jurassic age Takla group.

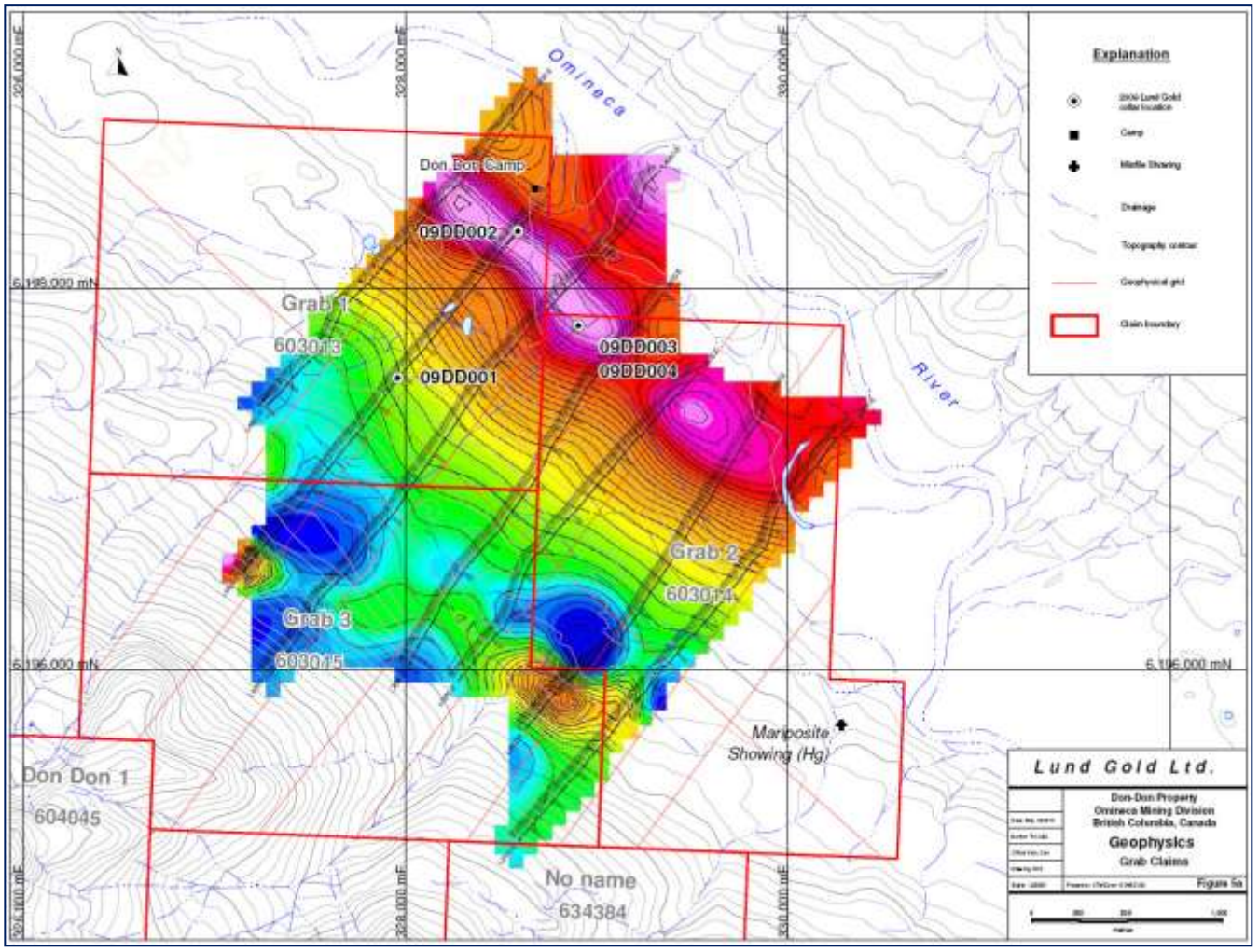
The western hole 09DD-02 intersected an eighty meter (20-100m) interval below cover, which averaged 80 ppb gold and 0.1% copper including an upper thirteen meters (20-35m) at 135 ppb gold and 0.13% copper. The adjacent two drill holes 09DD-03 and 4 tested the same geophysical anomaly 400 meters to the southeast. Both drill holes intersected variably altered and mineralized Takla volcanics but copper and gold values were weak and spotty. A drill test of the middle anomaly 09DD-01 intersected unmineralized but sheared and quartz-carbonate veined graphitic shale, siltstone and fine-grained sandstone thought to be part of the basal Takla formation (Fig. 7, 8, 9).

Drill results 09DD-02 from the northern geophysical anomaly are very interesting with locally anomalous copper-gold values occurring over an eighty meter interval.

Mineralization is of the porphyry copper gold type and the intercept offers promise for discovery of a larger body nearby on the east side of the Omineca River (i.e. on the DM claim block). This hypothesis can be tested by Induced polarization surveys and drilling.

The Don Don and Grab claims are now also owned by Sointula Resources, forming a large conjoined block of claims, although covered by a separate agreement from the DM claims.

FIGURE 14. LUND GOLD MAGNETIC SURVEY AND DRILLHOLES



INTERPRETATION AND CONCLUSIONS

Recommendations have been made by Consulting Geologist Ken MacDonald in his forthcoming NI 43-101 compliant report, which include:

- Data compilation, geochemical and geophysical
- Additional prospecting in Mariposite Creek area.
- 3D Induced Polarization surveys, and
- Diamond drilling (Proposed holes shown may be modified in the new report)

Ken MacDonald P.Geo. came to the following conclusions after his property visit:

"The Pinchi Property is considered a property of merit worthy of additional exploration. The property straddles the Pinchi Fault and is underlain by highly prospective geology on either side of the fault. Intrusive rocks to the east of the fault represent various phases of the large Hogem batholith which is recognized as an important metallogenic setting and is known to host porphyry copper-gold deposits such as the Lorraine and the Kwanika deposits. Porphyry copper-gold mineralization in the region is temporally related to migmatized and potassic-altered alkali pyroxenite to syenite intrusions of the Duckling Creek Syenite Complex, considered the most important lithology within the Hogem batholith to host economic concentrations of copper-gold mineralization. The key to unlocking the potential of the property will be systematic mapping, prospecting, and targeted geochemical/geophysical surveys that will assist in defining the extents and contacts of the prospective host syenite.

The property also demonstrates a potential for other mineral deposits types on the west side of the Pinchi Fault, including gold vein targets, gold-enriched alkalic intrusive targets, and listwanitic gold targets".

RECOMMENDATIONS

Based on the 2011 work program, consultants to Sointula have recommended a work program costing approximately $100,000 which will include:

- Cutting additional grid lines including and to the north of the 2011 magnetic grid, with the same orientation
- Completion of a 3D Induced Polarization survey across the grid
- Prospecting Mapping and soil sampling
- Possible radiometric survey
- To be followed, if results warrant with diamond drilling of IP and/or magnetic targets
- If finances are available, complete 2 follow up drillholes to the copper/gold zone discovered by Lund gold on the Grab 1 claim in 2010.

FIGURE 15. PROPOSED DRILL HOLE LOCATION – PINCHI PROPERTY

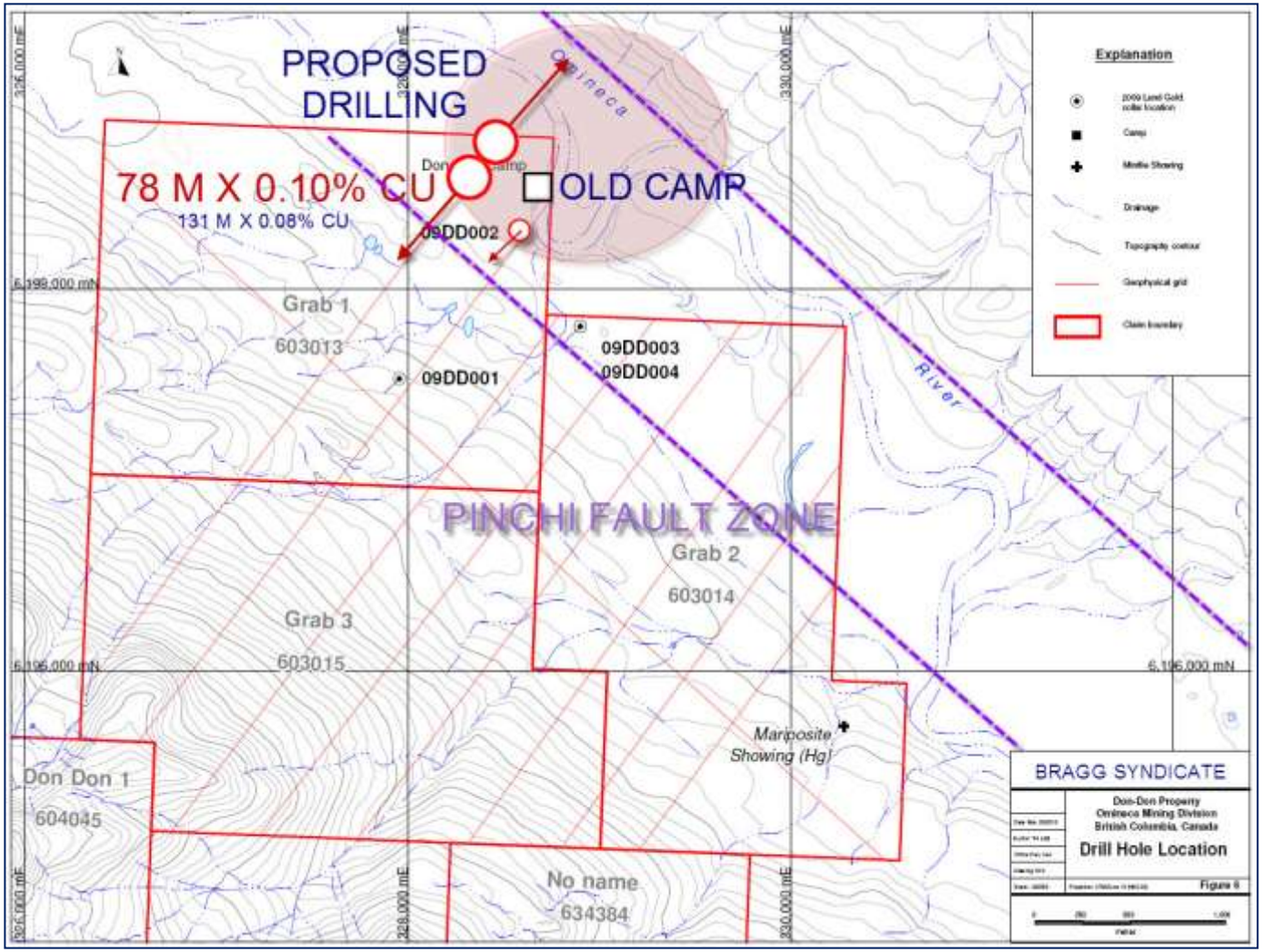
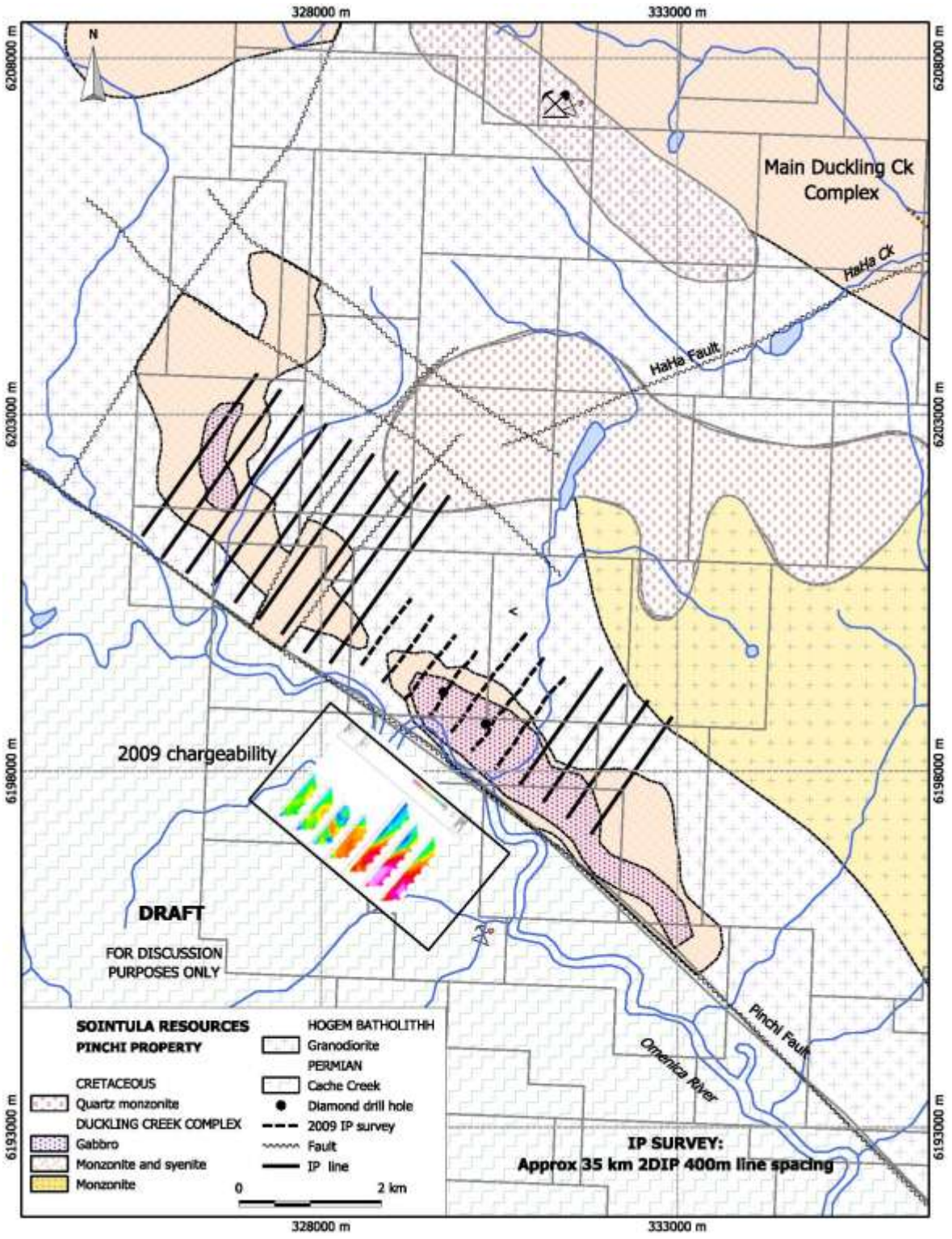


FIGURE 16. PROPOSED GRID (Peter Fox 2012)



SIGNATURE PAGE

Respectfully submitted

Barry J. Price, M.Sc., P.Geo. Qualified Person

June 22, 2012

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STATEMENT OF QUALIFICATIONS

I, BARRY JAMES PRICE, M.SC., P.GEO. do hereby certify that:

1. I am President of B.J. Price Geological Consultants Inc., with my office at Ste. 831 – 470 Granville Street, Vancouver BC., V6C 1V5.

2. I graduated with a B.Sc. Degree in Honors Geology from the University of British Columbia in 1965, and in addition, I completed a M.Sc. In Geology from UBC in 1972.

3. I am a registered as a Professional Geoscientist (P. Geo.) in the Province of British Columbia with the Association of Professional Engineers and Geoscientists of BC (APEGBC) No 19810 – 1992 and I am entitled to use the Seal, which has been affixed to this report.

4. I have worked as a geologist for a total of 46 years since my graduation from university. My experience includes work on similar porphyry deposits elsewhere in Mexico, Panama, and Canada and the US and have a broad consulting experience since 1969 in many foreign countries on a variety of geological targets. My experience in the subject area includes a field season at the Lorraine property adjacent to Cat Mountain

5. This report is for Assessment purposes and is not intended to be a NI 43-101 compliant report. Nevertheless it has been prepared with care.

6. I am responsible for the preparation of all sections of this report and have prepared the Statement of Costs assisted by Donald K. Bragg who was present during the survey and who compiled the expenses.

7. I have not visited the Pinchi property, but have worked extensively on Ogden Mountain to the west Lorraine property and Haha Creek to the east relied on numerous reports prepared by Gerald McArthur, P.Geo. Dr. Peter Fox, Donald K. Mustard and others.

8. I am not independent of the issuer as I am one of the participants in the vending group.

respectfully submitted June 22, 2012
B.J.PRICE GEOLOGICAL CONSULTANTS INC.

.....
Barry J. Price, M.Sc., P.Geo. Qualified Person

APPENDIX I - ITEMIZED COST STATEMENT

ITEMIZED COST STATEMENT

DM AND GRAB CLAIMS

EVENT NO 5116226

work filed Oct 28, 2011

Sept 4, 2011–Oct 18,2011

DETAILS	UNITS AND RATES		AMOUNT
Prorated preparation and planning and set up	8 hr. @ $40/hr.	$	320.00
Don Bragg prorated expenses		$	2,010.49
Mobilization demob,	32.5 hr. @$40/hr.	$	1,300.00
Mobilization demob truck rental	$100/day	$	240.00
Mobilization and Demob expenses		$	470.49
Food and Camp support	58 hrs. @ $40/hr.	$	2,320.00
Truck rental on job	$100/day	$	420.00
Trailer rent	$70/DAY	$	336.00
Camp and Kitchen Rent	$90/day	$	432.00
meals served	66 @$15/ea.	$	1,005.00
Camp supplies and expenses		$	239.57
Helicopter		$	9,667.57
Helicopter Fuel costs and tax		$	1,589.71
Fuel delivery		$	1,911.83
Meridian Mapping mag survey	Inv. 11-084	$	15,712.29
		$	37,974.95
Management Fee	Don Bragg	$	1,600.00
All items are prorated with other projects			
Please see attached receipts and statements			
Ken MacDonald P.Geo.	20% of 4538.31	$	871.62
B.J. price, Geological and Assessment report	2 days	$	2,000.00
TOTAL FOR SOINTULA		$	42,446.57
AMOUNT USED IN FILING		$	40,630.85
ADD PAC FROM DKBRAGG	30%	$	12,189.26
		$	52,820.11
AMOUNT ACTUALY CLAIMED ON EVENT		$	52,363.47

BARRY J. PRICE FOR DONALD K. BRAGG

APPENDIX III – WORK FILING AND COPIES OF INVOICES

(PDF VERSION ONLY AS FILE WOULD BE TOO LARGE)

INVOICE

Dated Nov 17 2011

SOINTULA RESOURCES INC.

PINCHI PROPERTY WORK 2011

6588 152 St, Surrey , B.C. V3S 3L1
TEL: (604) 597-7490
donbragg@amebc.ca
Donald K.Bragg

Soint - 1

DATES	DETAILS	DAYS
24-Aug-11	preparing and Planning for trip	1.5
Aug 26-28	Planning \pinchi grid	3
30-Aug-11	Planning, re Mag surveys, phoning	1.5
31-Aug-11		
02-Sep-11	Re Magnetometer survey, phoning	2
03-Sep-11		
		8

PAGE	DETAILS	UNITS AND RATES	AMOUNT	
a1	Prorated preparation and planning and set up	8 hr @ $40/hr	$	320.00
a1	Mobilization demob,	32.5 hr @$40/hr	$	1,300.00
a1	Mobilization demob truck rental	$100/day	$	240.00
a2	Mobilization and Demob expenses		$	470.49
a3	Food and Camp support	58 hrs @ $40/hr	$	2,320.00
a3	Truck rental on job	$100/day	$	420.00
a3	Trailer rent	$70/DAY	$	336.00
a3	Camp and Kitchen Rent	$90/day	$	432.00
a4	meals served	66 @$15/ea	$	1,005.00
a5	Camp supplies and expenses		$	239.57
a6	Helicopter		$	9,667.57
a7	Helicopter Fuel costs and tax		$	1,589.71
a7	Fuel delivery		$	1,911.83
	PAC used	20% x 11732.62	$	2,346.52
	Filing assessment Fee to government	Pd by D. Bragg	$	5,096.47
	Cash in lieu on Title 832455	Pd by D. Bragg	$	1,741.58
	Filing fee for above		$	174.63
	Management Fee		$	1,600.00
	All items are prorated with other projects			
	Please see attached receipts and statements			
	TOTAL FOR SOINTULA			$ 31,211.37

D K. Bragg

DONALD K. BRAGG

Payable on receipt, Interest will be added at 1%/mo after 30 days

INVOICE

SOINTULA RESOURCES INC

Aug 24	Preparing & planning for trip, phoning Interior Helicopters M. Hon Mankowski, Meridian Mapping, etc.	1.5	
Aug 26 & 28	Planning Pinchi grid for Mag Survey - phoning etc	3	
Aug 30 & 31	Phoning re Magnetometer Surveys, planning etc	1.5	
Sept 2 & 3	Re Mag Grid, phoning & planning	2	
	Total	8	
	Prorated preparing and planning + setup 8 hrs @ $40.00/hr		320.00
a1	Prorated Mobilization & Demobilization 32.5 hr @ $40.00/hr		1300.00
a1	Prorated Mobilization & Demobilization Truck rental		240.00
a2	Prorated Mobilization & Demobilization Expenses		470.49
a3	Prorated Field and Camp Support 58 hr @ $40.00/hr R Bragg		2320.00
a3	Prorated truck rent		420.00
a3	Prorated trailer rent		336.00
a3	Prorated camp and kitchen gear rent		432.00
a4	Meals served 66 @ $15.00/meal		1005.00
a5	Prorated Camp Supplies and expenses		239.57
a6	Helicopter		9667.57
a7	Helicopter fuel costs + Tax H5		1589.71
a7	Prorated fuel delivery		1911.83
	PAC used $11,732.62 @ 20¢/$1.00		2346.52
	Filing assessment $52363.47 Filing fee		5096.47
	Paying Cash in lein on 932455		1741.58
	Filing Fee		174.63
	Management Fee		1600.00
			$31211.37

Somtula
Statment of Costs

Filed

	Mobilization & De mobilization Costs including the following		
a1	Prorated wages D.K. Bragg 32.5 hr @ 40.00/hr	1300.00	
a1	Prorated truck costs	240.00	
a2	Prorated Expensis	470.49	2010.49
a3	D.K. Bragg Wages in field 58hr @ 40.00/hr		2320.00
a3	Prorated truck rent		420.00
a3	Prorated trailer rent		336.00
a3	Prorated camp and kitchen gear rent		432.00
a4	Meals served 67 @ $15.00 /-meal		1005.00
a5	Prorated camp supplies & expensis		239.57
a6	Helicopter		9667.57
a8	Fuel consumed + tax 896ℓ x 1.6758 = $1514.01 + 11% tax 75.10		1589.71
a9	Prorated fuel delivery		1911.83
a10	Ken Mc Donald P. Geol 20% of 4358.31		871.62
	Report		2520.00
	Magnetometer Survey		15712.29
	Management fee		1600.00
			~~40,630.85~~
			40636.08

a 1

Mobilization & Demobilization Costs
D.K. Bragg time

		Somtula	Rift Valley	DKSYN	Total hrs
Sept 4	Packing truck	1	1	2	4
Sept 5	Surrey to Mackenzie	2	4	7	13
6	Mackenzie to Camp	1	2	1	4
9	Camp to Surrey	2	8	6	16
Sept 30	Buying Supplies, Pack truck	4.5	4	3	11.5
Oct 1	Pack truck, Surrey to Prince George	5	5	4	14
Oct 2	Prince George to Camp	5	5.5	5	15.5
14	Camp to Prince George	4	4	2.5	10.5
15	Prince George to Fort St. James to Cache Creek	5	3	2	10
16	Cache Creek to Surrey & unload truck	3	4	3	10
		32.5 hrs	40.5 hrs	35.5 hrs	108.5
	Bragg time percentage on Mob & Demob	30%	37%	33%	
	Bragg time in field	30%	32%	38%	
	Average used for prorating all other costs & expenses	30%	34.5	35.5	
	Truck Rent Mob & Demob $800	$240.00	$276	$284	

a2 Mobilization & Demobilization
Expenses

Sept 5	Gas Boston Bar	319770 Km	72.661 l @ 125.9	1	91.48	
5	Supper Cache Creek			2	27.70	
5	Gas Prince George	320355 km	175 l @ 1.319	3	231.71	
6	Breakfast			4	13.04	
6	Gas Mackenzie	320548 km	25.984 l @ 1.319	5	34.27	
9	Gas Prince George	320263 Km	69.017 l @ 1.319	6	91.03	
9	Lunch			7	17.48	
9	Supper			8	23.90	
9	Gas Boston Bar	321840 Km	74.334 l @ 1.279	9	95.08	
Oct 1	Lunch			10	26.88	
1	Gas 150 mile House	322618 Km	23.504 @ 1.289	11	30.30	
1	Gas Williams lake		65.113 @ 1.289	12	83.93	
1	Chips & peanuts				5.57	772.37
1	Supper Prince George 2 people			13	32.41	
2	Breakfast " " 2 people			14	25.03	
2	Gas Prince George		99.962 l @ 1.279	15	127.86	
2	Gas Mackenzie	323075	29.777 l @ 1.279	16	38.08	
2	Lunch 2 people			17	51.21	
14	Breakfast			18	9.06	
14	Gas Prince George	324091	69.057 l @ 1.359	19	93.85	
15	Esters Inn	Including 3 meals		20	157.90	
15	Gas Prince George	324428	56.414 l @ 1279	21	72.15	
15	Oil			22	8.00	
15	Cache Creek	324876	74.578 l @ 1.289	23	96.13	
15	Supper			24	19.17	
	Motel			25	50.40	
16	Breakfast			26	14.69	1568.31

Saintula	1568.31	@ 30%	470.49
Rift Valley	1568.31	@ 34.5%	541.07
DKSYN	1568.31	@ 35.5%	556.75
			1568.31

Husky Energy 1

319770 Km

Canyon Husky

[illegible] Canada Highway
[illegible] Bay BC
V0K 1L0
[illegible] 867 9288

Store#	Batch Seq	Register#	Slip#
0756	[illegible]	65	69914

Loyalty: CAA [illegible]######4014
GST #R209896[illegible]RT

Item	Amount
87 Fuel - Full Serve 72.661 litres x $1.259	$91.48 #
HST INC.:	$4.36
Sub Total:	**$91.48**

Purchase **$91.48**

#**********9224 Exp **/** C
VISA CREDIT
09/05/2011 17:36:48
075665EK 65 RESP:001 ISS:00
Ref:027001001088 Auth:093964
AID: A0000000003101001
TVR: 000[illegible]000 TSI: F800

Approved

BEARS CLAW LODGE
PO BOX 520
CACHE CREEK BC 2

Term ID: 28173678

Purchase

xxxxxxxxxxx9224
VISA Entry Method: C

Amount:	$ 25.70
Tip:	$ 2.00
Total:	$ 27.70

2011/09/05 19:56:57
Seq #: 0011590570 Appr Code: 096514
Resp Code: 01/027

VISA CREDIT
A0000000003101001
6A E7 3C 33 41 E2 5F 09
00 00 00 80 00
[illegible] 56 66 F2 C6 68 88

APPROVED
Thank You

MONTE ROSA RESTAURANT
520 MACKENZIE BOULEVARD
MACKENZIE BC 4

CARD	**********9224
CARD TYPE	VISA
DATE	2011/09/06
TIME	0058 09:30:24
RECEIPT NUMBER	
C30872035-001-158-003-0	
PURCHASE	
AMOUNT	$11.54
TIP	$1.50
TOTAL	

$13.04

VISA CREDIT
A0000000003101001
CA34E95DBA310FB0
0000008000
326C9CE9852FDD0A

APPROVED

AUTH# 006840 01-027
THANK YOU

HUSKY MOHAWK 3

320355 Km

Husky Travel Centre

1148 Pacific Street
Prince [illegible], BC V2N 2K8
(250) [illegible]521
GST# R848936027 Merchant ID:4512273
ORIGINAL
Receipt 737/5438
Type: SALE
Loyalty Number 620273****454014

Qty	Name	Price	Total
1	87 GAS	$ 1.319	$ 231.71
	Pump: 4		
	Litres: 175.[illegible]		
	Subtotal		$ 231.71
	HST Fuel		$ 11.03
	Total		$ 231.71

Purchase $ 231.71
#[illegible]*******9224 Exp **/** S
[illegible] 05/06/2011 01:01:02
[illegible] RESP:001 ISS:00
Ref: [illegible]11299 Auth:030163
[illegible] - Thank you

9/6/11 1:01:07 AM

PETRO-CANADA 5
75 CENNTENNIAL DR
MACKENZIE
BC V0J 2C0 320548 Km

E-HST: Pending (250) 997-4141
2011-09-06 PC0580947:9146201 09:50

FUEL	(L)	($/L)	($)
Pump 6			
Regular	[illegible]4	1.319	34.27*
Total Owed			34.27
CASH TENDERED			34.27
CHANGE DUE			0.00

*TAXES INCL. #TAXES EXCL.
E-HST TOTAL $ 1.63

Husky MOHAWK 6

321263 Km

Husky Travel Centre

1148 Pacific Street
Prince George, BC V2N 2K8
(250) 563-5521
GST# R845832526 Merchant ID:4512273

ORIGINAL
Receipt 72641480
Type: SALE
Loyalty Number 620273****454014

Qty	Name	Price	Tal
1	87 GAS	$ 1.31[illegible]	$ 91.03
	Pump:	1	
	Litres:	69.0[illegible]	
	Subtotal		$ 91.03
	HST Fuel		$ 4.[illegible]
	Total		$ [illegible].03

Purchase 91.03
#**********9224 Exp **/** C
VISA 09/09/2011 [illegible]
651972HK 72 RESP:001 ISO:[illegible]
Ref:053001001009 28469 Auth:012256
Approved - Thank you

9/9/11 1:57:12 PM

HUSKY HOUSE RESTAURANT 6541 7

PRINCE GEORGE [illegible]
( )

Store#	Batch Seq	Register#	Slip#
6519	950	65	27102

Loyalty CAA 620273[illegible]4014
GST #845832526

Item	Amount
Restaurant	[illegible].98
Sub Total:	$15.98

TIP: 1.50
Total: 17.48

PreAuthorization $15.98

#**********9224 Exp **/** C
VISA CREDIT
09/09/2011 14:45:03
651965EK 65 RESP:001 ISO:00
Ref:034001001003 Auth:050549
AID: A0000000003101001
TVR: 0000008000 TSI: F800

Approved

BEAR'S CLAW LODGE
PO BOX 520
CACHE CREEK, BC 8

Term ID: 26173678

Purchase

xxxxxxxxxxx9224
VISA Entry Method: C

Total: $ 23.90

2011/09/09 20:07:19
Seq #: 00116380260 Appr Code: 015409
Resp Code: 01/027

VISA CREDIT
A0000000003101001
6E F9 3A 06 83 5A 42 0D
00 00 00 80 00
2E B4 65 39 98 76 E8 B2

APPROVED

Husky Energy 9

Canyon Husky 321840 Km

48165 Trans Canada Highway
Boston Bar, BC
V0K 1C0
(604) 867-9288

Store#	Batch Seq	Register#	Slip#
0756	877 1	65	70539

Loyalty CAA 620273######4014
GST #820989671RT

Item	Amount
87 Fuel - Full Serve 74.339 litres x $1.279	$95.08 #
HST INC.: $4.53	
Sub Total:	**$95.08**

Purchase $95.08

#**********9224 Exp **/** C
VISA CREDIT
09/09/2011 21:56:31
075665EK 65 RESP:001 ISO:00
Ref:032001001001 Auth:089112
AID: A0000000003101001
TVR: 0000008000 TSI: F800

DATE 10

NOM / NAME Herl

ADRESSE / ADDRESS

VENDU PAR / SOLD BY	C.R. / COD	FACTURER / CHARGE	À CRÉDIT / ON ACCOUNT	MONTANT REPORTÉ / AMOUNT FWD

1	CCm	6 95
2	MUSHCAS	7 75
3	CANTSSP.	10 -
4		
5		24 -
6	PD	288
7		
8		26 88
9		
10		
	TPS/GST TVH/HST	
N° DE TAXE / TAX REG. No.:	TVP/PST	
41	TOTAL	
	REÇU PAR / RECEIVED BY	

LIVRET DE VENTE 308
SALES BOOK

322618 Km

10

Husky Travel Centre

1335 Caribou Hwy 97 S
Williams Lake, BC V2G 1A2
(250) 392-7600
GST# 828998666RT0001 Merchant ID:4846
ORIGINAL
Receipt 71036406
Type: SALE
Loyalty Number 620273****454014

Qty Name	Price	Total
1 87 GAS	$ 1.289	$ 83.93
Pump:	6	
Litres:	65.113	
Price / Litre:	$ 1.289	
Subtotal		$ 83.93
HST Fuel		$ 4.00
Total		$ 83.93

Purchase $ 83.93
#**********9224 Exp **/** S
VISA 10/01/2011 18:29:55
908471HK 71 RESP:001 ISO:00
Ref:090001001035 42426 Auth:086069
Approved - Thank you

10/1/11 6:29:59 PM

Pos:71 Cashier:16 Store:9084

12

150 Mile Hus

11

GST# [illegible] 71460
Receipt 72
Type: SALE
Loyalty Number [illegible]4014

Qty Name	Price	Total
[illegible]	1.289	$ 30.30
Pump:	3	
Litres:	23.504	
[illegible]al		0.
[illegible]uel		1.44
[illegible]		$ 30.30

Purchase $ 30.30
#**********9224 Exp **/** S
VISA 10/01/2011 18:00:07
270972HK 72 RESP:001 ISO:00
Ref:220001001015 45077 Auth:001783
Approved - Thank you

10/1/11 6:00:12 PM

HUSKY HOUSE RESTAURANT
#6541
PRINCE GEORGE, BC

13

O11 [illegible] 2 #Party 1
ANITA [illegible]ck: 37 21:07 10/01/11

1 HAMBURGER STEAK, add soup	12.98
1 COFFEE	2.29
1 spaghetti meat sauce	10.99
Sub Total	26.26
HST	3.15
10/01 21:50 TOTAL :	29.41

PLEASE PAY YOUR SERVER
!

GST\HST#848936027 R10001
WIN FUEL FOR LIFE
KEEP RECEIPT TO WIN
ENTER AT MYHUSKY.CA
THANK YOU!
EARN CAA DOLLARS HERE

HUSKY HOUSE RESTAU[illegible] 6541
P[illegible] GEORGE, BC
( )

14

[illegible]	Reg [illegible]#	Slip#
[illegible]	[illegible]	28462

[illegible] AA 620273####[illegible]
GST #845[illegible]526

Item	Amount
Restaurant	$25.03
Sub Total:	$25.03
TIP:	
Total:	

PreAuthorization $25.03

#[illegible]****9224 Exp **/** C
VISA [illegible]
10/02/2011 07:51:50
651965EK 65 RESP:001 ISO:00
[illegible]079001001003 Auth:044798
AID A000000003101001
TVR 0000008000 TSI: F80[illegible]

Husky Travel Centre

15

1148 Pacific Street
Prince George, BC V2N 2[illegible]
(250) 563-5521
GST# R845832526 Merchant ID:4512[illegible]73
ORIGINAL
Receipt 72651103
Type: SALE
[illegible]yalty Number 620273****454014

Qty Name	Price	Total
1 87 GAS	$ 1.279	$ 0.07
Pump:	5	
Litres:	.051	
1 87 GAS	$ 1.279	$ 11.61
Pump:	[illegible]	
[illegible]res:	9.077	
1 87 GAS	1.279	$ 116.18
Pump:		
Litres:	90.[illegible]	
Su[illegible]		$ 127.86
HST [illegible]		$ 6.09
Total		$ 127.86

Purchase $ 127.[illegible]
#*******[illegible]*****9224 Exp **/** S
VISA 10/02/2011 08:34:39
651972HK 72 RESP:001 ISO:00
Re[illegible] 76001001008 40412 Auth:031552
Approved - Thank [illegible]

[illegible]/2/11 8:34:42 AM

PETRO-CANADA
75 CENNTENNIAL DR
MACKENZIE
BC V0J 2C0 323075 Km

16

F-HST: Pending (250) 997-4141
2011-10-02 PC0597171:9146201 11:37
TERMINAL: 019146201 OPER: A

FUEL	(L)	($/L)	($)
Pump 6			
Regular	29.777	1.279	38.08*
Total Owed			38.08

TOTAL PAID
CREDIT CARD 38.08

*TAXES INCL. #TAX[illegible]

F-HST TOTAL $ 1.81

VISA ************9224 C
INV. 498317 AUTH. 015528
Purchase
C 0010010010 [illegible]

VI[illegible] [illegible]EDIT
A000000003101001
0000008000

VERIFIED BY PIN

00 APPROVED - THANK YOU

Date 10/02/2011

M T-3 17

SOLD BY / VENDU PAR	COD / C.R.	CHARGE / DÉBITER	ON ACC'T / ACOMPTE	ACCT. FWD. / REPORTÉ	
C					
1					
2 SFYoung				11	95
3					
4 SCM				11	95
5					
6 HSSF				13	95
7					
8 2 x Coffee				4	30
9					
10				42	15
11 HST				5	06
12					
13				47	21
14					
15					

49

VILLAGE GARDEN
RESTAURANT 17
530 MACKENZIE BOULEVARD
MACKENZIE BC

CARD	************9224
CH[illegible]	VISA
DATE	2011/10/02
TIME	0897 12:41:15

RECEIPT NUMBER
C30858540-001-909-001-0

PURCHASE	
AMOUNT	$47.21
TIP	$4.00
TOTAL-CAD	

$51.21

VISA CREDIT
A000000003101001
0020008000
D45D4016E000E[illegible]
67FA62978E01384B

MONTE ROSA RESTAURANT
520 MACKENZIE BOULEVARD
MACKENZIE BC 18

CARD **********9224
CARD TYPE VISA
DATE 2011/10/14
TIME 9501 09:38:48
RECEIPT NUMBER
C30872035-001-190-009-0

PURCHASE
AMOUNT $7.56
TIP $1.50
TOTAL

$9.06

VISA CREDIT
A0000000031010O1
DC5A9D9F28538055
0000008000
6AC28EBE58A5EF03

Husky Travel Centre

1148 Pacific Street 19
Prince George, BC V2N 2K8
(250) 563-5521
GST# R84893602? Merchant ID:4512273
ORIGINAL
Receipt 72656712 324091
Type: SALE
Loyalty Numb 620273****454014

Qty	Name	Price	Total
1	89 GAS	$ 1.359	$ 93.85
	Pump: 3		
	Litres: 69.057		
	Subtotal		$ 93.85
	HST Fuel		$ 4.47
	Total		$ 93.85

Purchase $ 93.85
#*** 9224 Exp **/** S
VISA 10/14/2011 13:20:57
651971 #K 71 RESP:001 ISO:00
Ref:089001001004 19560 Auth:016883
Approved - Thank you

10/14/11 1:21:02 PM

Husky Travel Centre

1148 Pacific Street 21
Prince George, BC V2N 2K8
(250) 563-5521
GST# R84563252? Merchant ID:4512273
ORIGINAL
Receipt 72656705 324428
Type: SALE
Loyalty Number 620273****454014

Qty	Name	Price	Total
1	87 GAS	$ 1.279	$ 72.15
	Pump: 3		
	Litres: 56.414		
	Subtotal		$ 72.
	HST Fuel		$ 3.4
	Total		$ 72.15

Purchase $ 72.15
#**********9224 Exp **/** S
VISA 10/15/2011 13:42:28
651972HK 72 RESP:001 ISO:00
Ref:089001001010 47483 Auth:068355
Approved - Thank you

10/15/11 1:42:31 PM

Husky Travel Centre

1148 Pacific Street 22
Prince George, BC V2N 2K8
(250) 563-5521
GST# R84[illegible]32526 Merchant ID:4512273
ORIGINAL
Receipt 72656797 324428
Type: SALE
Loyalty Number 620273****454014

Qty	Name	Price	Total
1	CHEVRON UNLD SUPREM	$ 6.99	$ 6.9
1	ENL	$ 0.05	$ 0.05
1	ENVIRONMENTAL CHRG	$ 0.10	$ 0.10
	Subtotal		$ 7.14
	HST		$ 0.8
	Total		$ 8.00

Purchase $ 8.00
#**********9224 Exp **/** S
VISA 10/15/2011 13:50:00
651972HK 72 RESP:001 ISO:00
Ref:089001001011 47486 Auth:087778
Approved - Thank you

10/15/11 1:50:04 PM

1151 Commercial Crescent
Prince George, B.C.
V2M 6W6

Phone (250) 562-4131
Fax (250) 562-4145
Toll Free 1-800-663-6844

info@esthersinn.com
www.esthersinn.com

Esther's INN

Your Tropical Oasis in Northern BC

GUEST ACCOUNT

20a

Thank you for choosing to stay at Esther's Inn.

BRAGG DON
6288-152

SURREY, BC
V3S 3L1
LUND GOLD

Arrive 10/14/11 Depart 10/15/11 **Room # 144 Invoice # 437980-1**

DATE	CLERK	DEPARTMENT	DESCRIPTION	AMOUNT
1-INCIDENTALS				
10/14/11	CBW	7-Rest. Tick	21	12.20
10/14/11	CBW	41-12% HST Re	On Rest. Ticket	1.46
10/14/11	CBW	9-Rest. Grat	21	1.50
10/14/11	HAR	7-Rest. Tick	45	18.55
10/14/11	HAR	41-12% HST Re	On Rest. Ticket	2.23
10/14/11	HAR	9-Rest. Grat	45	2.00
10/15/11	KMR	7-Rest. Tick	12	12.95
10/15/11	KMR	41-12% HST Re	On Rest. Ticket	1.55
10/15/11	KMR	9-Rest. Grat	12	1.50
10/15/11	TH	92-Visa		-53.94

Tax Reg. # R137413522

BALANCE DUE → 0.00

BILLING INSTRUCTIONS

COMPANY

ADDRESS

CITY POSTAL

ATTENTION

I agree that my liability for this bill is not waived and agree to be held personally liable in the event that the indicated person, company or association fails to pay for any part or the full amount of these charges.

SIGNATURE

X _____

FOR CASH OR DEBIT CARD PREPAYMENT GUESTS ONLY

I hereby acknowledge receipt of $ _____ refund due from pre-authorization charged at check-in.

Are you planning a:

Corporate Retreat
Meeting
Convention
Retirement Party
Anniversary
Concert
Family Reunion
Christmas Party
or Wedding?

Allow our professional catering team to assist you with all your planning needs.

To discover how easy it is, go to *www.esthersinn.com* or contact us directly at **(250) 564-3311.**

We look forward to your next visit!

Thank you for staying at Esther's Inn
See you next time!

Esther's INN
Your Tropical Oasis in Northern BC

1151 Commercial Crescent
Prince George, B.C.
V2M 6W6

Phone (250) 562-4131
Fax (250) 562-4145
Toll Free 1-800-663-6844

info@esthersinn.com
www.esthersinn.com

GUEST ACCOUNT

Thank you for choosing to stay at Esther's Inn.

20 b

BRAGG DON
6288-152

SURREY, BC
V3S 3L1
LUND GOLD

Arrive 10/14/11 Depart 10/15/11

Room # 144 Invoice # 437980-2

DATE	CLERK	DEPARTMENT	DESCRIPTION	AMOUNT
2-ROOM AND TAX				
10/14/11	RVR	2-Room Charg		91.00
10/14/11	RVR	40-2% AHRT	On Room Charge	1.82
10/14/11	RVR	39-12% HST Ro	On Room Charge	11.14
10/15/11	TH	92-Visa		-103.96

Tax Reg. # R137413522

ESTHER'S INN
1151 COMMERCIAL DRIVE
PRINCE GEORGEBC

CARD **********9224
CARD TYPE VISA
DATE 2011/10/14
TIME 420Z 13:44:00
CLERK ID 01
RECEIPT NUMBER
006626424-001-026-030-0

PRE-AUTHORIZATION
AMOUNT $178.96

TIP

TOTAL 157.90

VISA CREDIT
A0000000031010O1
1AEDC2F711DB1B7E
0000008000
81D80145EC8F7084

APPROVED

BALANCE DUE → 0.00

I agree that my liability for this bill is not waived and agree to be held personally liable in the event that the indicated person, company or association fails to pay for any part or the full amount of these charges.

COMPANY

ADDRESS

CITY

ATTENTION

SIGNATURE

X

D PREPAYMENT GUESTS ONLY

I hereby ackno

____ refund due from pre-authorization charged at check-in.

Are you planning a:

Corporate Retreat

Meeting

Convention

Retirement Party

Anniversary

Concert

Family Reunion

Christmas Party

or Wedding?

Allow our professional catering team to assist you with all your planning needs.

To discover how easy it is, go to ***www.esthersinn.com*** or contact us directly at **(250) 564-3311.**

We look forward to your next visit!

Thank you for staying at Esther's Inn
See you next time!

HUSKY TRAVEL CENTRE

959 S TRANS CANADA HWY
CACHE CREEK , BC V0K 1H0
(250) 457-6643
GST# R119999944 Merch [illegible]881
Receipt 72581033
Type SALE
Loyalty Number 620273****454014

23

324876 Km

Qty	Name	Price	Total
1.87	GAS	$ 1.289	$ 96.13
	Pump: 8		
	Litres: 74.578		
	Subtotal		$ 96.13
	HST Fuel		$ 4.58
	Total		$ 96.13

Purchase $ 96.13
#**********9224 Exp **/** S
VISA 10/15/2011 19:34:24
112572HK 72 RESP:001 ISO:00
Ref:101001001019 44546 Auth:026957
Approved - Thank you

10/15/11 7:34:27 PM

HUSKY HOUSE
RESTAURANT

27

QTY [illegible] Sale 1 #Part
BARLENA [illegible] 29.19

1 COFFEE 2.49
1 VEAL CUTLET 13.49

Sub Total: 15.98
HST 1.89
10/15 19:49 TOTAL: 17.67

PLEASE PAY CASHIER!

cache creek husky tc

cache creek, BC
( ) -

27

Store#	Batch Seq	Register#	Slip#
1125	1016 13	65	24799

Loyalty: CAA 620273######4014
GST #119999944

Item	Amount
Restaurant	$17.67
Sub Total:	**$17.67**
Customer Tip:	$1.50
Purchase	**$19.17**

#**********9224 Exp **/** C
VISA CREDIT
10/15/2011 20:20:25
112565EK 65 RESP:001 ISO:00
Ref:106001001004 Auth:007428
AID: A0000000031010O1
TVR: 0000008000 TSI: F800

Approved

25

ROBBIE'S MOTEL
1867 TRANS CANADA HWY
CACHE CREEK, BC V0K 1H0
250-457-6221

GUEST REGISTRATION

I REGARDLESS OF CHARGE INSTRUCTIONS, THE UNDERSIGNED GUEST ACKNOWLEDGES THE BELOW AS A PERSONAL INDEBTEDNESS.

NAME D.K. Bragg (PLEASE PRINT)
COMPANY Rift Valley Resources
ADDRESS 6588 152nd St
CITY Surrey BC
CREDIT CARD# TYPE
SIGNATURE D.K. Bragg

RATE $ 45.00
DATE IN Oct 15/11
MAKE OF CAR
ROOM No.
DATE OUT
CAR LICENCE No.
No. IN PARTY 1
CLERK INITIAL K.R.
PROV.-STATE
PAYMENT RECEIVED BY Rose Kg.

NOTICE TO GUESTS
THIS PROPERTY IS PRIVATELY OWNED AND MANAGEMENT RESERVES THE RIGHT TO REFUSE SERVICE TO ANYONE. WE WILL NOT BE RESPONSIBLE FOR ACCIDENTS, OR INJURY TO GUESTS OR FOR LOSS OF MONEY, JEWELRY, OR VALUABLES OF ANY KIND.
1100 A.M. IS CHECKING OUT TIME. GUESTS STAYING OVER PLEASE NOTIFY OFFICE. THE MANAGEMENT RESERVES THE RIGHT TO ASSIGN AND RE-ASSIGN THE ROOMS FOR ACCOMMODATION AS THE MANAGEMENT DEEMS FIT. WE OPERATE UNDER THE HOTEL KEEPER'S ACT.

INVOICE THIS IS THE ONLY ITEMIZED ACCOUNT RENDERED

HST REGISTRATION NO: 868151903

DAYS OCCUPIED							
SUNDAY							
MONDAY							
TUESDAY							
WEDNESDAY							
THURSDAY							
FRIDAY							
SATURDAY							
TOTALS	45	00					
% TAX H.S.T.	5	40					
% ROOM TAX							
RECEIVED ON ACCOUNT							
TOTAL	50	40					

E.&O.E.

25

Sale

XXXXXXXXXXXX9224
VISA Entry Method: CHIP
20:32:21
Inv #: 0000064 Appr Code: 000326
Amount Batch#: 000581
Total: $ 50.40

26

cache creek husky tc

cache creek, BC
( ) -

Store#	Batch Seq	Register#	Slip#
1125	1017 17	65	24821

Loyalty: CAA 620273######4014
GST #119999944

Item	Amount
Restaurant	$13.19
Sub Total.	**$13.19**
Customer Tip	$1.50
Purchase	**$14.69**

#**********9224 Exp **/** C
VISA CREDIT
10/16/2011 10:18:57
112565EK 65 RESP:001 ISO:00
Ref:107001001005 Auth:056636
AID: A0000000031010O1
TVR: 0000008000 TSI: F600

a3 Wages in Field
D K. Bragg

	Somtula	Rift Valley	DKSYN	Total hrs
Sept 6		8		8
7		11		11
8			14	14
Oct 3	9	1	3	13
4	12	1	1.5	14.5
5	13.5	1	2	16.5
6	9	5	1	15
7	4		10	14
8	5.5		8	13.5
9	5		10	15
10		10	4.5	14.5
11		5.5	11	16.5
12		10	4	14
13		9	4	13
Totals	58 hr	61.5	73	192.5

Prorated truck rent	30%	34.5%	35.5%
14 days $1400.00	$420.00	$483.00	497.00
Prorated trailer rent			
16 days @ $70.00/day = $1120.00	336.00	386.40	$ 397.60
Prorated Camp & Kitchen gear rent			
16 days @ $90.00/day = $1440.00	432.00	$ 496.80	$ 511.20

a4 Meals Served

		No of Men in camp	No of Meals Served	Somtula	Rift Valley	DKSYN
Sept	6	1	2		2	
	7	1	3		3	
	8	1	3			3
	9	1	1			1
Oct	2	2	2	2	1	
	3	2	6	2	2	2
	4	6	14	6	6	2
	5	6	18	16	1	1
	6	6	16	8	7	1
	7	4	12	9		3
	8	4	12	9		3
	9	4	12	9		3
	10	4	11	6	2	3
	11	3	9		6	3
	12	3	9		8	1
	13	1	3		2	1
	14	1	1		1	
	Totals		135	67	41	27

a5

Camp Supplies & Expensis
To be Prorated

Sept 6	Duct tape & floater lamp	1	21.25
6	Fix Icon radio	2	16.80
17	Naptha, toilet seat, tarps etc	3	75.28
30	Extra groceries	4	30.15
Oct 2	Camp supplies, chain oil, damper ect	5	42.57
10	Gas from Heath Cornell 20 gal No receipt		90.00
	½ bottle of propane from home		25.00
	2 tins naptha from home		31.00
	Regular gas $343.54 + H5 = $17.18		360.72
	Oil $60.00 + H5 = $7.20		67.20
Oct 15	Meal in Prince George	6	18.61
	Phone calls		20.00
			798.58

Sointula	$798.58	× 30%	$ 239.57
Rift Valley	$798.58	× 34.5%	$ 275.51
DKSYN	798.58	× 35.5%	$ 283.50

1

1

HAGEN'S HOME HARDWAR CASH INVOICE
BOX 1720 700A MACKE 1781690
MACKENZIE, B.C. V0J 09/06/2011
PH:(250)997-4555 FAX 10:05
P- 3 C- 4 W- 4 P- 1
GST #R120370408RT

CASH SALE 1.000

LANTERN,FLOAT 41-2087 W/6V A H
5330607 2.000 5.99 EA 11.98
TAPE,DUCT CLOTH HH 48MMX50M A H
5540220 1.000 6.99 EA 6.99

SUBTOTAL 18.97
H.S.T. 2.28

TOTAL 21.25
VISA 21.25

THANK YOU FOR SHOPPING AT HAGEN'S
HOME HARDWARE/THE SOURCE C965

HAGEN'S HOME HARDWARE/THE SOURCE
BOX 1720 700A MACKENZIE BLVD
MACKENZIE, B.C. V0J 2C0
T: 250 997-4555
F: 250 997-4212

TYPE: PURCHASE

ACCT: VISA $ 21.25

CARD NUMBER: **********9224
DATE/TIME : 11/09/06 10:07:39
REFERENCE #: 66169407 0013520070 F
AUTHOR. # : 021463

CHIP CARD SWIPED

01/027 APPROVED - THANK YOU

X _____
SIGNATURE

CARDHOLDER WILL PAY CARD ISSUER ABOVE
AMOUNT PURSUANT TO CARDHOLDER AGREEMENT

IMPORTANT - Retain this copy
for your records

CUSTOMER COPY - 1781690

2

ALPHA-ONE MOBILE RADIO
(Division of Lokken Investments Ltd.)
GST #135342665
Box 2167
MACKENZIE, B.C. V0J 2C0
Phone 250-997-5997 Fax 250-997-6409

DATE Sept 6/11

NAME

ADDRESS

30327

CITY PROVINCE POSTAL CODE TELEPHONE

MAKE MODEL SERIAL NUMBER

NATURE OF SERVICE DATE PROMISED

QUANTITY	DESCRIPTION	AMOUNT
1	LIGHTER PLUG	5 00

Joel Lokken

Pd VISA

SPECIAL INSTRUCTIONS

TOTAL MATERIAL	5 00
TECHNICAL SERVICE TIME	10 00
SUBTOTAL	15 00
HST / GST	1 80
PST	
TOTAL	16 80

TECHNICIAN

DATE COMPLETED CASH ON COMPLETION OF WORK

SIGNATURE

Signature above constitutes acceptance of above service performed as being satisfactory - and that equipment has been left in good condition.

3

CANADIAN TIRE 443
7599 KING GEORGE HWY
SURREY, BC V3W 5A8 604-572-3739
ALL RETURNS WILL BE REFUNDED IN THE
SAME TENDER (AND CREDIT CARD) AS
ORIGINAL PURCHASE- EXCEPTION DEBIT
REG #:68 09/17/2011 18:37:53 TRANS #:189
OPERATOR #: 443705 Float: 001

052 5497-4	BULB 100/300W M $	6.29
2X052-5675-0	@ $ 3.490 ea.	
	BULB 60W SW LL $	6.98
2X076-0054-2	@ $ 15.290 ea.	
	NAPHTHA [illegible]ORT $	30.58
2X098-0760-8	@ $ 0.400 ea.	
	ENVIRONMENTAL F $	0.80
052-7223-4	PWR BAR VALUE O $	5.77
099-0070-8	BAT EXTEND WARR $	9.99
10-3478-2	EL [illegible]8DT-875 AU $	119.99

THERE ARE NO RE[illegible]ON BATTERIES.
NO EXCEPTIONS [illegible]L SALE.

3X040-5030-[illegible]	@ $ 2 [illegible] ea.	
	9X12' TARP	8.67
(SAVED $ 15.27 @ 5.09 ea.)		
063-1059-6	TOILSEAT,WOOD,B $	15.79
051 [illegible]5-2	24X500ML WTR JM $	2.77
098 3922-6	WATER BTL DEP $ $	[illegible]
098-3924-2	WATER BTL DEP $ $	[illegible]
	SUBTOTAL $	209 [illegible]
	12% HST $	24.[illegible]
	5% HST $	0.00
	TOTAL $	234.13
	M/C TEND $	234.13

CT M/C PURCHASE
CT M/C #: **********3927
CARD READ
2011/09/17 18:40:00
REFERENCE #: 00100[illegible]0 S
AUTHORIZATION #: 000518
00 APPROVED - THANK YOU 000
IMPORTANT
Retain this copy for your records

BASE CT MONEY ON THE CARD	$	2.80
PRODUCT BONUS MONEY-CARD		
1X 9X12' TARP	$	0.40
1X 9X12' TARP	$	0.40
1X 9X12' TARP	$	0.40
TOTAL PRODUCT BONUS MONEY-CARD	$	1.20
TOTAL NEW CT MONEY ON CARD	$	4.00
CT MONEY ON THE CARD BALANCE	$	6.00

TODAY YOU SAVED

Light bulbs	6.98
Naptha	30.58
Enviromental	.80
Tarps	8.67
Toilet Seat	15.79
24x 500 ml Water	2.77
Deposit	1.92
12% HST	7.77
Total	75.28

4

WELCOME
TO
MACKENZIE CO-OP
G.S.T. #R103437125
PROMO 40
SEPT 30 - OCT 7, 2011
YOUR LOCAL FRESH MARKET
RED HOT SALE

NON MEMBER
MEMBER#: 2

PUREX BATH TIS DBL	$6.99 H
ADVERTISED SPECIAL	
SPONGETOWEL ENVIRO	$7.99 H
ADVERTISED SPECIAL	
NV CHEWY BAR	$4.19 H
NV CHEWY BAR	$4.19 H
ROGERS OAT FLAKE	$3.99
ADVERTISED SPECIAL	
BALANCE DUE	$30.15

TYPE: Purchase

ACCT: VISA $ 30.15

CARD NUMBER: **********9224
DATE/TIME: 10/02/2011 12:56:38
REFERENCE #: 0011120370 C
TERM: 66189991
AUTHOR.# : 091135
AID: A000000003101001
TVR: 0000008000

VERIFIED BY PIN

VISA CREDIT
01 Approved - Thank you 027

IMPORTANT:
retain this copy for your records

CUSTOMER COPY
****

VISA $30.15
Seq. # = 091135
CHANGE $0.00

TAX-CODE	TAXABLE-VAL	TAX-VALUE
HST 12%	$23.36	$2.80 H

Today You Saved
$4.95

C0114 #6652 12:52:47 20OCT2011
S01560 R002

5

HAGEN'S HOME HARDWAR CASH INVOICE
BOX 1720 700A MACKE 1786018
MACKENZIE, B.C. V0J 10/02/2011
PH:(250)997-4555 FAX 11:09
P- 3 C- 8 W- 8 P- 1
GST #R120370408RT

CASH SALE 1.000

DAMPER,STOVE CAST 1406 6IN			A	H
5538661	1.000	5.49 EA		5.49
OIL,CHAIN LIGHT 4L UNIVAL WINTE			A	H
8650897	2.000	12.49 EA		24.98
ECO FEE		n	A	
ENV40	2.000	.40 EA		.80
OIL,CSTRL DIESL 1L 4076-42 15W4			A	H
8645317	1.000	6.69 EA		6.69
ECO FEE		n	A	
ENV15	1.000	.15 EA		.15

SUBTOTAL 38.11
H.S.T. 4.46

TOTAL 42.57
VISA 42.57

THANK YOU FOR SHOPPING AT HAGEN'S
HOME HARDWARE/THE SOURCE C965

6

[illegible] sky Energy

HUSKY HOUSE RESTAURANT 6541
PRINCE GEORGE, BC
( ) -

Store#	Batch Seq	Register#	Slip#
6519	1023	65	2926[illegible]

Loyalty: CAA 620273######4014
GST #845832526

Item	Amount
Restaurant	$17.11
Sub[illegible]	$17.11
TIP	150
Total	18.61

PreAuthorization $17.11

[illegible] Exp [illegible]
VISA CREDIT
10/15/2011 [illegible]
[illegible] 65 BESP 001 ISO:00
[illegible] Auth 025142
000000310100I
[illegible] TSI: F800

Approved

HAGEN'S HOME HARDWARE/THE SOURCE
BOX 1720 700A MACKENZIE BLVD
MACKENZIE, B.C. V0J 2C0
T: 250 997-4555
F: 250 997-4212

TYPE: PURCHASE

ACCT: $ 42.57

CARD NUMBER:
DATE/TIME : 11/10/02 11:08:40
REFERENCE #: 66169407
AUTHOR. # :

TRANSACTION NOT COMPLETED

CUSTOMER COPY - 1786018

HAGEN'S HOME HARDWARE/THE SOURCE
BOX 1720 700A MACKENZIE BLVD
MACKENZIE, B.C. V0J 2C0
T: 250 997-4555
F: 250 997-4212

TYPE: PURCHASE

ACCT: VISA $ 42.57

CARD NUMBER: **********9224
DATE/TIME : 11/10/02 11:12:16
REFERENCE #: 66169407 0013780010 C
AUTHOR. # : 064631

INTERIOR HELICOPTERS LTD.

PO Box 1478
Fort St James V0J 1P0

26

637,39, 42,
43,44,45

Oct 15, 2011

SSointula Resources
6588 - 152 Street
Surrey, B.C.

SSointula Resources
6588 - 152 Street
Surrey, B.C.

206	1.6	hour(s)	#637 - Oct. 5	HS	950.00	1,520.00
fort	57.0	litre(s)	Fuel Surcharge	HF	1.53	87.21
206	2.1	hour(s)	#639 - Oct. 6	HS	950.00	1,995.00
206	0.8	hour(s)	#642 - Oct. 7	HS	950.00	760.00
206	1.5	hour(s)	#643 - Oct. 8	HS	950.00	1,425.00
206	1.0	hour(s)	#644 - Oct. 9	HS	950.00	950.00
206	2.0	hour(s)	#645 - Oct. 10	HS	950.00	1,900.00

HF - HST 5%
HS - HST 12 %
HST 1,030.36

INTERIOR HELICOPTERS LTD. HST: #893470070

9,667.57

a7

Fuel Consumption Sands Invoice
Pro rated

		Time Sointula	Litres fuel		Time Rift Valley	Litres fuel
Oct 5		1.6 hr	125		0.6 hr	68
6		2.1 hr	236		0.4 hr	50
7		0.8 hr	91			
8		1.5 hr	171			
9		1.0 hr	114			
10		0.8 hr	91			
10	Ferry	0.6 hr	68.5	Ferry	0.6	68.5
Totals		8.4 hr	896.5		1.6 hr	186.5 l

Fuel used Sointula 896.5 l + 32.4 = 928.90 l ÷ 1147.8 l = 80.9 %
Rift Valley 186.5 l + 32.4 = 218.90 l ÷ 1147.8 l = 19.1 %
To be shared → Meridian 64.8 l
Total 1147.8 l

Sointula 928.90 l x 1.6299 = 1514.01
Tax H 0.05% 75.70 $ 1589.71
Rift Valley 218.90 l x 1.6299 = 356.79
Tax H 0.05% 17.84 $ 374.63
1870.80 93.54

Pro rated Camp Supplies & expenses
Reg Gas $ 343.54 + H $ 17.18 Transferred to a5 $ 360.72
Oil $ 60.00 + H $ 7.20 Transferred to a5 $ 67.20

Pro rated Fuel delivery
Trailer Rental $ 780 + H $ 93.60 $ 873.60 $ 873.60
Pick up Trailer $ 1330.00 + H 159.60 $ 1489.60 $ 1489.60

Totals $ 2363.20 $ 4755.46

Sointula $ 2363.20 x 80.9 % $ 1911.83
Rift Valley $ 2363.20 x 19.1 % $ 451.37
$ 2363.20

Prorating Sointula Helicopter hrs Don Don 1 12 %
DM 7.4 88 %
8.4

Sands Bulk Sales Ltd.

1059 Eastern Street
Prince George, British Columbia V2N 5R8

INVOICE

Invoice No.: 11338-1
Date: 10/02/2011
Ship Date:
Page: 1
Re: Order No.

Sold to:

Cash Sales

Ship to:

Don Bragg
6588 152nd Street
Surrey, B.C.
V3S 3L1

Business No.: 890256548

Item No.	Unit	Quantity	Description	Tax	Base Price	Disc %	Unit Price	Amount
005-JETA 005-JETA.1	Litres	-1,601	JET A Fuel (Includes FET at $0.0400, BC PFT at $0.0200, BC CBT at $0.0653) Delivered 2748.8 out of Tank 6 1147.8L was used by Don Bragg balance to Yellowhead Helicopters	H5	1.6299		1.6299	-2,609.47
005-9175 005-9175.1	Litres	205	Regular Gas Dyed with Ethanol (Includes FET at $0.1000, BC PFT at $0.0300, BC CBT at $0.0556)	H5	1.6758		1.6758	343.54
004-TR	Each	12	Trailer Rental 12 days @ $65	H	65.0000		65.0000	780.00
004-FRTH	Each	14	14 Hours Pick UP Unit	H	95.0000		95.0000	1,330.00
005-220112-012	Each	1	Chevron Syn Supreme 5x30 6x.946L EHC/P Included at $.015/L 11338	H	60.0000		60.0000	60.00
			Subtotal:					-95.93
			H - HST 12% H5 - HST 5% HST					147.11

Shipped By: Tracking Number:

Comment: "Thank For Your Business"

Sold By:

Total Amount 51.18

Sands Bulk Sales Ltd.

1059 Eastern Street
Prince George V2N 5R8
Canada

INVOICE

Invoice No.: 11338
Date: 2011.09.30
Ship Date:
Page: 1
Re: Order No.

Sold to:

Cash Sales

Ship to:

Don Bragg
Working with Interior Helicopters

Business No.: 89025 6548 RT0001

Item No.	Unit	Quantity	Description	Tax	Unit Price	Amount
JETA JETA.1 JETA.2 JETA.3	Litres Litres Litres Litres	2,748.8	JET A Fuel FET Included at $0.0400 BC PFT Included at $0.0200 BC CBT Included at $0.0653 BOL 11338 Working with Inrterior Helicopters (To be paid by credit card) H5 - HST 5% Exempt from Provincial Portion HST	H5	1.6299	4,480.27 224.01

Sands Bulk Sales Ltd. HST: #890256548RT0001

Shipped By: Tracking Number:

Comment: "Thank You For Your Business"

Sold By:

Total Amount 4,704.28

Husky Energy

Sands Distribution Ltd.
1059 EASTERN STREET
PRINCE GEORGE, BC
V2N 5R8
(250) 563 2655

Store#	Batch Seq	Register#	Slip#
6570	50 2	65	02440

GST #

Item	Amount
Non Loyalty	$4,704.28
Sub Total:	**$4,704.28**

Purchase **$4,704.28**

#**********9224 Exp **/** C
VISA CREDIT
10/14/2011 13:06:56
657065EK 65 RESP:001 ISU:00
Ref:011001001001 Auth:096529
AID: A000000003101001
TVR: 0000008000 TSI: F800

Approved

SANDS
www.sandsbulk.ca

Sands Bulk Sales LTD
1059 Eastern Street
Prince George, BC V2N 5R8

Phone: 250-563-2855 • Fax: 250-564-2978 • Toll Free: 1-877-564-7600

Delivery Advice

Date: Sept 30th 2011 Equipment: Truck: 18

Customer: Ron Beck Trailer:

Location: Osilinka Camp Area. Bowser: 309

Driver: Haskell.

P/O #: BOL#:

Time: Start: End: Total Hours:

Description of Work Performed: 2748.8 Litres, sold to above Custome. from tank #6.

Product	Litres	Start Dip	End Dip
	160 817. 11 814.3	2748,8 Litres	
A. Ethosn. Sept 30th 2011			

Received By:

Print Name: A. Ethosn. PIN:

Signature:

Delivery Advice
NS 11338

White - Customer Canary - Accounting Pink - Delivery

AWA

Re Assessment on 36 DM Claims
Oct 28 2011

Total ha of 36 DM claims 13840.8659 ha

Statment of Costs		$ 40.630.85
PAC	28.87 %	$ 11 732.62
		$ 52 363.47

MERIDIAN Mapping Ltd
9400 Bel Air Drive, Coldstream, BC, V1B-1C3
Tel: (250)558-5068 Fax: (250)558-5068
www.MeridianMapping.ca

INVOICE

Bill To: **c/o Barry Price, P.Geo**
Sointula Resources Inc.
Suite 810 – 675 West Hastings St.
Vancouver, BC
V6B 1N2

Invoice: 11-0084
Date: 10/27/2011
Project: Pinchi

Pinchi Project Ground Mag 2011 – Invoice #1 – 10/01/2011 to 10/12/2011

GIS:

Date	By	Work Description	Work Code	Hours	Rate	Total
10-05	DD	Draft proposed grid	ArcView GIS	1	$75.00	$75.00
10-20	DD	Generate final preliminary map & email	ArcView GIS	1.5	$75.00	$112.50
10-24	DD	Compose 1:35K map showing final prelim data and IP	ArcView GIS	1	$75.00	$75.00
					Total	**$262.50**
					HST	**$31.50**

Time:

Dates	Description	Rate	Units	Cost
10-01 to 10-12	Geologist/Project Manager	$600.00	5.5	$ 3,300.00
10-01 to 10-12	Senior Field Tech	$500.00	6.5	$ 3,250.00
			Total	**$6,550.00**
			HST	**$ 786.00**

Rentals:

Dates	Description	Rate	Units	Cost
10-01 to 10-12	Basic Field Equipment	$12.50/m.d.	12	$ 150.00
10-01 to 10-12	4wd Vehicles	$35/day	8	$ 280.00
10-01 to 10-12	Vehicle Mileage	$0.35/Km	878	$ 307.30
10-01 to 10-12	Chainsaws/Tools	$25/day	8	$ 200.00
10-01 to 10-12	Generator	$25/day	8	$ 200.00
10-01 to 10-12	Travel Trailer	$100/day	8	$ 800.00
10-01 to 10-12	Laptop/Printer	$30/day	8	$ 240.00
10-01 to 10-12	VHF road radios	$5/day	16	$ 80.00
10-01 to 10-12	Satellite Internet system	$20/day	8	$ 160.00
10-01 to 10-12	Iridium satellite telephone	$10/day	8	$80.00
			Total	**$2497.30**
			HST	**$ 299.68**

Expenses:

Dates	Description	Rate	Units	Cost
10-01 to 10-12	Accommodation	At Cost		$ 40.00
10-01 to 10-12	Meals	At Cost		$ 13.72
10-01 to 10-12	Groceries	At Cost		$ 0.00
10-01 to 10-12	Fuel & oil	At cost		$ 373.88
10-01 to 10-12	Field Supplies	At cost		$ 0.00
10-01 to 10-12	Hub International –Mag Insur Rider	19% of cost		$ 28.53
10-01 to 10-12	Magnetometer rental. (13% of monthly rate)	19% of cost		$ 1,787.55
10-01 to 10-12	Welke Enterprises – Initial mag processing	At cost		$ 600.00
10-01 to 10-12	Petra Geophysical – final processing	At cost		$ 600.00
			Total	**$3,443.68**
			HST	**$ 413.24**

Sub-Total : $ 12,753.48
Project Admin (10%) : $ 1,275.35
GST on Project Supervision (12%): $ 153.04

Total : $ 14,028.83
Total HST : $1,683.46

Grand Total : $ 15,712.29

GST#: 862438629RT
Terms: Due on Receipt
Interest Charged At 1.5% Per Month on Overdue

Thank you for your business.
We accept: Cash or Cheque

APPENDIX IV – LOGISTICAL DATA FOR MAGNETIC SURVEY

(Pdf version only)

MERIDIAN Mapping Ltd
9400 Bel Air Drive, Coldstream, BC, V1B-1C3
Tel: (250)558-5068 Fax: (250)558-5068
www.MeridianMapping.ca

LOGISTICS REPORT

On

GROUND MAGNETIC SURVEY

PINCHI PROJECT
OMINECA MINING DISTRICT, BC
55° 56‟ N Lat, 125° 46‟ W Long
NAD 83 UTM Zone 10 327000E, 6202000N
NTS Mapsheet(s): 93N/13
BCGS Mapsheet(s): 093N.082 & 92

October 6th to 10th 2011

For

SOINTULA RESOURCES INC.
Suite 810 – 675 West Hastings Street
Vancouver, British Columbia
V6B 1N2

By

Meridian Mapping Ltd.

Coldstream, British Columbia

November 2011

INTRODUCTION:

Between October 6th and 10th 2011, Meridian Mapping Ltd. completed a ground magnetometer survey over a portion of the Pinchi Property in the Omineca region of British Columbia for Sointula Resources Inc.

PROPERTY LOCATION & ACCESS:

The Pinchi Property is located on the Omineca River in the Omineca Mining Division approximately 300 Km northwest of Prince George, BC.

Access was gained from Mackenzie BC via the Kemess Mine, Osilinka and Thane Creek Forest Service Roads. A secondary logging road branching north off the Thane Creek FSR at kilometer 7 provided access to the Cat Mountain mining camp which was used as a base during the survey. Daily helicopter flights provided access to the Pinchi property 28 kilometers to the southwest.

SURVEY SPECIFICATIONS:

Survey Grid:

No existing grid had been established in the immediate survey area. Survey lines were therefore run by GPS navigation with only the endpoints flagged.

A total of 20 lines were surveyed on an azimuth of 35.3°. 18 lines were surveyed on the north side of the Omineca River, 17 of them on 200m spacing and the 18th (southern most line) on 400m spacing. Two lines were established on the south side of the Omineca River on a 200m spacing.

A total of 48.2 line kilometers were surveyed over five field days.

Magnetic Survey:

The magnetic survey was conducted by two operators using two GPS equipped GSM Ver 7.0 19W Overhauser walking magnetometers manufactured by GEM Systems of Richmond Hill, Ontario (see Appendix I for detailed instrument specifications). This instrument measures variations in the total intensity of the earth‟s magnetic field to an absolute accuracy of +/- 0.1 nT. They were used in „walking mode‟ and set to record a reading every 2 seconds. A third GSM 19 magnetometer was employed as a stationary base to measure the diurnal variations in the earth‟s magnetic field. Data was recorded at a 3 second interval at the base. This base data was used to apply diurnal correction to the rover data. A 250 meter length of overlap line was walked each morning by both units. Data from this overlap line was used to level the data between the two instruments as well as between survey days.

Positional Control:

The GSM 19W magnetometers are equipped with Novatel SuperStar II DGPS boards. The GPS attaches 3-dimensional coordinates, differentially corrected in real-time using the WAAS service, to each magnetometer reading. Accuracies of +/- 1.5m can be achieved in ideal conditions, however ~5m is more typical under tree canopy. Garmin GPSMap 60CSx units, which provide a similar accuracy, were also used for navigation and recorded track data at a 2 second interval for backup.

DATA PROCESSING:

Preliminary Processing:

Preliminary processing of the field data included:

- Diurnal correction of the rover data using data from the stationary base.
- Leveling of data from the individual units and multiple survey days using data from the overlap line.
- Cleaning GPS „spikes‟ and extrapolating positions to fill GPS gaps.

- Trimming of unnecessary data.
- Preliminary QA/QC of both magnetic and positional data to ensure quality and completeness of field data prior to the field crew leaving the project.

Final Processing:

Final processing of the total field magnetometer data was performed in Geosoft Oasis Montaj, and followed conventional processing techniques. Processing steps were as follows:

- Diurnally corrected total magnetic profile data was despiked either manually, or by a non-linear filter, as required. This step removes one-station spikes that are caused by instrument dropouts or sensor "knocks".
- The despiked data was then lightly smoothed using a 7 fiducial-long low pass filter. This step removed the 10 to 15nT saw-tooth noise which is inherent in walking magnetometer data.
- A total magnetic intensity (TMI) grid was generated by gridding the final filtered data using the minimum curvature algorithm, with a grid cell size typically 1/5 of the line separation.
- A calculated 1st vertical derivative (1VD) grid was generated from the TMI grid using a convolution grid filter.
- An analytic signal (AS) grid was generated from the TMI grid using a fast Fourier transform algorithm.
- Geotiff maps of TMI profiles, TMI colour grid, TMI B&W contours, 1VD colour grid, 1VD B&W contours, AS colour grid, AS B&W contours, and line path maps were exported.

DATA DELIVERABLES:

Deliverable data includes:

1. Total Magnetic Intensity
2. Calculated 1st Vertical Derivative
3. Analytic Signal
4. B&W Contour Plots of above three.
5. Profiles of Total Magnetic Intensity
6. Survey Line Path Plot

Respectfully Submitted,
Meridian Mapping Ltd.

Dugald Dunlop
B.Sc. (Geology)

APPENDIX I – EQUIPMENT SPECIFICATIONS

Overhauser

Magnetometer / Gradiometer / VLF (GSM-19 v7.0)

Version 7.0

Our World is **Magnetic.**

GEM's unique Overhauser system combines data quality, survey efficiency and options into an instrument that takes the leading place in the industry.

And the latest v7.0 technology upgrades provide even more value:

Data export in standard XYZ (i.e. line-oriented) format for easy use in standard commercial software programs

Programmable export format for full control over output

GPS elevation values provide input for geophysical modeling
Enhanced GPS positioning resolution

Standard GPS:
<1.5m SBAS (WAAS, EGNOS, MSAS)
High resolution CDGPS Option:
<0.6m SBAS (WAAS, EGNOS, MSAS)
<0.6m CDGPS (Canada, USA, Mexico)
<0.7m OmniStar VBS2

Multi-sensor capability for advanced surveys to resolve target geometry

Picket and line marking / annotation for capturing related surveying information on-the-go

And all of these technologies come complete with the most attractive savings and warranty in the business!

Overhauser (GSM-19) console with sensor and cable. Can also be configured with additional sensor for gradiometer (simultaneous) readings.

The GSM-19 v7.0 Overhauser instrument is the total field magnetometer / gradiometer of choice in today's earth science environment -- representing a unique blend of physics, data quality, operational efficiency, system design and options that clearly differentiate it from other quantum magnetometers.

With data quality exceeding standard proton precession and comparable to costlier optically pumped cesium units, the GSM-19 is a standard (or emerging standard) in many fields, including:

- **Mineral exploration** (ground and airborne base station)
- **Environmental and engineering**
- **Pipeline mapping**
- **Unexploded Ordnance Detection**
- **Archeology**
- **Magnetic observatory measurements**
- **Volcanology and earthquake prediction**

Taking Advantage of the Overhauser Effect

Overhauser effect magnetometers are essentially proton precession devices - except that they produce an order-of magnitude greater sensitivity.

These "supercharged" quantum mag-nometers also deliver high absolute accuracy, rapid cycling (up to 5 readings / second), and exceptionally low power consumption.

The Overhauser effect occurs when a special liquid (with unpaired electrons) is combined with hydrogen atoms and then exposed to secondary polarization from a radio frequency (RF) magnetic field.

The unpaired electrons transfer their stronger polarization to hydrogen atoms, thereby generating a strong precession signal -- that is ideal for very highsensitivity total field measurements.

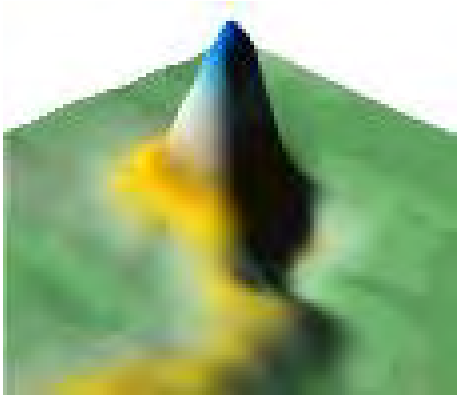
In comparison with proton precession methods, RF signal generation also keeps power consumption to an absolute minimum and eliminates noise (i.e. generating RF frequencies are well out of the bandwidth of the precession signal).

In addition, polarization and signal measurement can occur simultaneously - which enables faster, sequential measurements. This, in turn, facilitates advanced statistical averaging over the sampling period and/or increased cycling rates (i.e. sampling speeds).

Other advantages are described in the section called, "GEM's Commercial Overhauser System" that appears later in this brochure.

Maximizing Your Data Quality with the GSM-19

Data quality is a function of five key parameters that GEM has taken into consideration carefully in the design of the GSM-19. These include sensitivity, resolution, absolute accuracy, sampling rates and gradient tolerance.



Data from Kalahari Desert kimberlites. Courtesy of MPH Consulting (project managers), IGS c. c. (geophysical contractor) and Aegis Instruments (Pty) Ltd., Botswana.

Sensitivity is a measure of the signal-to-noise ratio of the measuring device and reflects both the underlying physics and electronic design. The physics of the Over-hauser effect improves sensitivity by an order of magnitude over conventional proton precession devices. Electronic enhancements, such as high-precision precession frequency counters (see the v6.0 & v7.0 - New Milestones section) enhance sensitivity by 25% or more.

The result is high quality data with sensitivities of 0.02 nT / √Hz. This sensitivity is virtually the same as the sensitivity of costlier optically-pumped cesium systems.

Resolution is the minimum step of the counter used to measure precession frequency and its conversion into magnetic field. It is generally higher than the sensiti-vity to avoid a contribution of the counter to overall system noise. The GSM-19 has unmatched resolution (0.01 nT).

This level of resolution translates into well-defined, characteristic anomalies; impro-ved visual display; and enhanced numeri-cal data for processing and modeling.

Absolute accuracy defines maximum deviation from the true value of the measu-

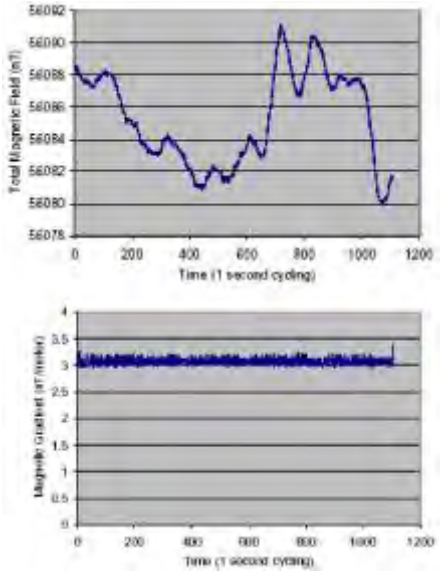
knows the true value of the field, absolute accuracy is determined by considering factors involved in determining the field value and their accuracy, including the gyromagnetic constant, maximum offset of the time base frequency, etc.

With an absolute accuracy of +/- 0.1 nT, the GSM-19 is ideal for total field work and gradient measurements maintain the same high standard of quality. Both configurations are also specially designed to minimize overall system noise, so you can be sure that results truly reflect the geologic signal that is of most interest to you.

Sampling rates are defined as the fastest speed at which the system can acquire da-ta. This is a particularly important parame-ter because high sampling rates ensure accurate spatial resolution of anomalies and increase survey efficiency.

GEM's Overhauser system has 3"measurement modes" or maximum sampling rates - "Standard" (3 sec. / reading), "Walking" (0.5 sec. / reading) and "Fast" (0.2 sec. / reading). These rates make the GSM-19 a versatile system for all ground uses (including vehicle-borne applications).

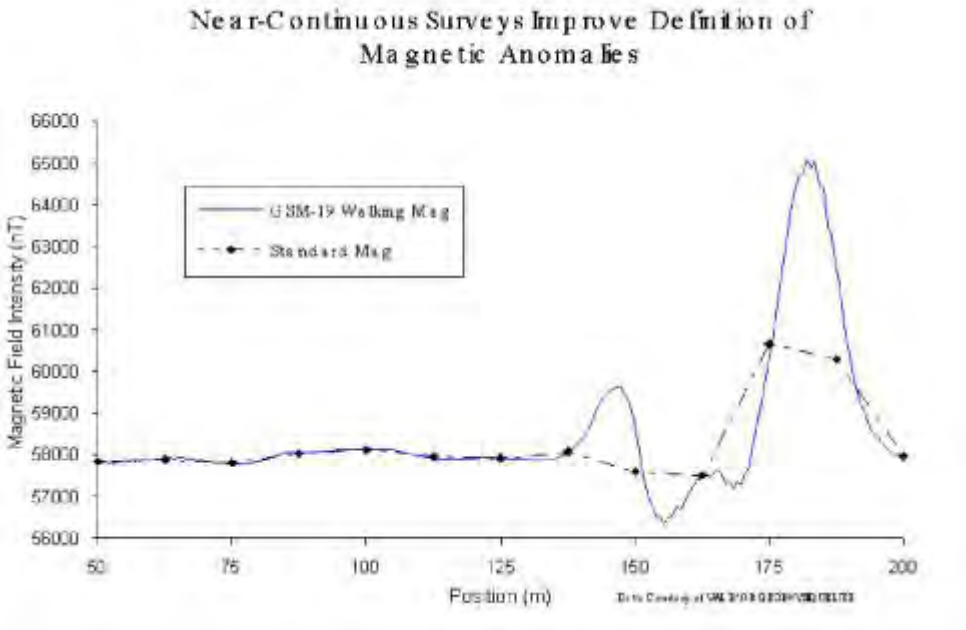
Gradient tolerance is the ability to obtain reliable measurements in the presence of extreme field variations. GSM-19 tolerance is maintained through internal



Total Field and Stationary Vertical Gradient showing the gradient largely unaffected by diurnal variation. Absolute accuracy is also shown to be very high (0.2 nT/meter).

signal counting algorithms, sensor design and Overhauser physics. For example, the Overhauser effect produces high amplitude, long-duration signals that facilitate measurement in high gradients.

The system's tolerance (10,000 nT/m) makes it ideal for many challenging environments, such as highly magnetic rocks in mineral exploration or near cultural objects in environmental, UXO or archeological applications.



Much like an airborne acquisition system, the GSM-19 "Walking" magnetometer option delivers very highly-sampled, high sensitivity results that enable very accurate target location and / or earth science decision-making.

Increasing Your Operational Efficiency

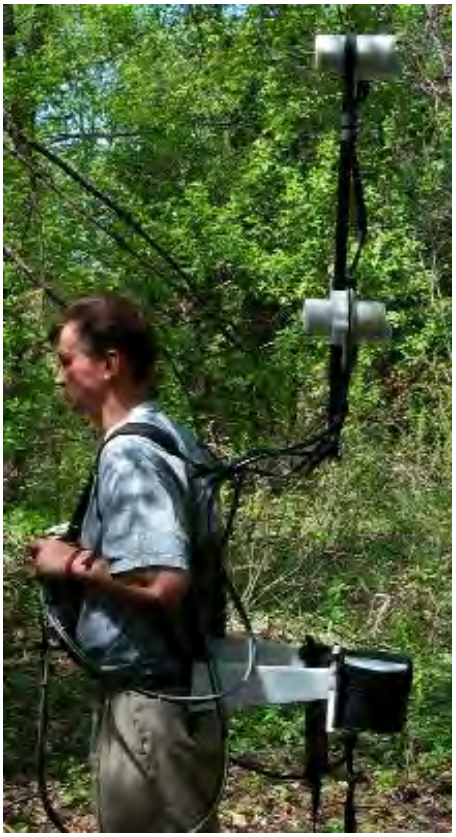
Many organizations have standardized their magnetic geophysical acquisition on the GSM-19. This reflects enhancements such as memory capacity; light weight; GPS and navigation; no warm-up time; no dead zones or heading errors; easy dumping and processing.

Memory capacity controls the efficient daily acquisition of data, acquisition of positioning results from GPS and the ability to acquire high volumes of data to meet daily survey objectives.

V7.0 upgrades have established the GSM-19 as the commercial standard for memory with over 838,000 readings (based on a basic configuration of memory, a survey with time, coordinate and field values).

Optional increments of memory to over 2 million readings making the GSM-19 an ideal system for acquisition of data with integrated GPS readings (when required).

Portability characteristics (ruggedness, light weight and power consumption) are essential for operator productivity in both normal and extreme field conditions.



GEM's Overhauser magnetometer is established globally as a robust scientific instru-ment capable of withstanding temperatu-re, humidity and terrain extremes. It has the reputation as the lightest and lowest power system available, reflecting Overhau-ser effect and RF polarization advantages.

In comparison with other systems, the GSM-19 is the choice of operators as an easy-to-use and robust instrument

GPS and navigation options are very important for earth science professionals. GPS technologies are revolutionizing data acquisition, productivity, increasing spatial resolution and providing a new level of data quality for informed decision-making.

GEM has made GPS a cornerstone of its magnetic R&D program. Real time GPS and DGPS options are now available in different survey resolutions. For more details, see the GPS and DGPS section.

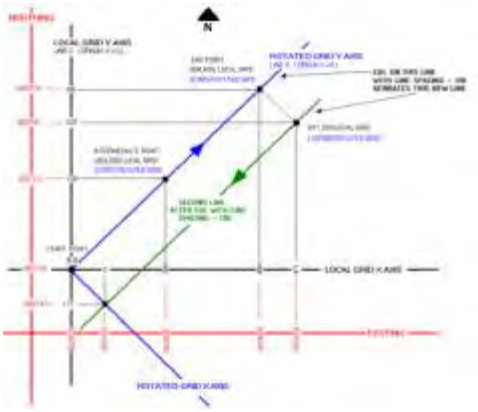
GEM has also developed a GPS Navigation feature with real-time coordinate transformation to UTM, local X-Y coordinate rotations, automatic end-of-line flag, guidance to the next line, and survey "lane" guidance with cross-track display and audio indicator.

Other enhancements include way point preprogramming of up to 1000 points. Professionals can define a complete survey on PC and download points to the magnetometer via RS-232 before leaving for the field.

The operator performs the survey using the way points as a survey guide. This capability decreases survey errors, improves efficiency and ensures more rapid survey completion.

Dumping and processing effectiveness is also critical consideration. Historically, up to 60% of an operator's "free" time can be spent on data dumping. Data dumping times are significantly reduced through GEM's implementation of high-speed, digital data links (up to 115 kBaud).

This functionality is facilitated through a new RISC processor and GEM's proprietary GEMLinkW acquisition/display software. This software serves as a bi-directional RS-232 terminal. It also has integrated processing functionality to streamline key processing steps, including diurnal data reduction. GEMLinkW is provided free to all GSM-19 customers. Regular updates are



Navigation and Lane Guidance

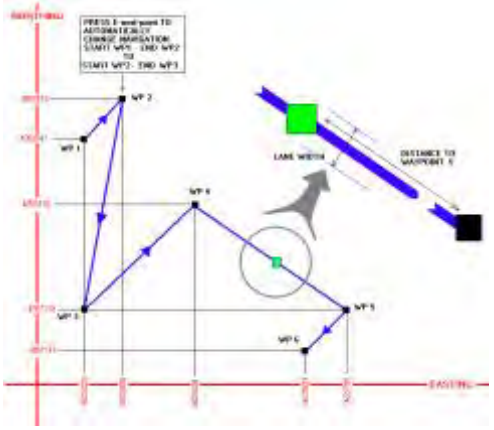
The figure above shows the Automatic Grid (UTM, Local Grid, and Rotated Grid). With the Rotated Grid, you can apply an arbitrary origin of your own definition. Then, the coordinates are always in reference to axes parallel to the grid. In short, your grid determines the map, and not the NS direction.

The Local Grid is a scaled down, local version of the UTM system, and is based on your own defined origin. It allows you to use smaller numbers or ones that are most relevant to your survey.

The figure below shows how programmable waypoints can be used to plan surveys on a point-by-point basis.

Initially, you define waypoints and enter them via PC in the office or via PC in the field or office. When you perform your survey, the unit guides you to each point.

While walking between waypoints, lane guidance keeps you within a lane of pre-defined width using arrows (< - or - >) to indicate left or right. The display also shows the distance (in meters) to the next waypoint.



Adding Value through Options

When evaluating the GSM-19 as a solution for your geophysical application we recommend considering the complete range of options offered by GEM. These options can be added at time of original purchase or later to expand capabilities as your needs change or grow.

GEM's approach with options is to provide you with an expandable set of building blocks:

o Gradiometer
o Walking Magnetometer / Gradiometer
o Fast Magnetometer / Gradiometer
o VLF (3 channel)
o GPS (built-in or external)

GSM-19G Gradiometer Option

The GSM-19 gradiometer is a versatile, entry level system that can be upgraded to a full-featured "Walking" unit (model GSM-19GW) in future. The GSM-19G configuration comprises 2 sensors and a "Standard" console that reads data to a maximum of 1 reading every 3 seconds.

An important GEM's design feature allows gradiometer sensors measure the 2 magnetic fields concurrently to avoid any temporal variations that could distort gradiometer readings. Other features, such as single-button data recording, are included for operator ease-of-use.

GSM-19W / GW "Walking" Magnetometer / Gradiometer Option

GEM Systems pioneered the innovative "Walking" option that enables the acquisi-tion of nearly continuous data on survey lines. Since introduction, the GSM-19W and GSM-19GW have become one of the most popular magnetic instruments in the world.

Similar to an airborne survey in principle, the system records data at discrete time intervals (up to 5 readings per second) as the instrument is carried along the line.

At each survey picket (fiducial), the operator touches a designated key. The system automatically assigns a picket coordinate to the reading and linearly interpolates the coordinates of all intervening readings (following survey completion during post-processing). A main benefit is that the high sample den-sity improves definition of ge-ologic struc-tures and other targets (UXO, archeological relics, drums, etc.).

It also increases survey efficiency because the operator can record data almost continuously. Another productivity feature is the instantaneous recording of data at pickets. This is a basic difference between the "Walking" version and the GSM-19 / GSM-19G (the "Standard" mode version which requires 3 sec. to obtain a reading each time the measurement key is pressed).

GSM-19W / GW Magnetometer

The GSM-19 reads up to 5 readings per sec. (sensors and console are the same as other models.) This system is ideal for vehicle-borne surveys, such as UXO, archaeological or some mineral exploration applications, where high productivity is required.

GSM-19 "Hands-Free" Backpack Option

The "Walking" Magnetometer and Gradiometer can be configured with an optional backpack-supported sensor. The backpack is uniquely constructed - permitting measurement of total field or gradient with free hands.

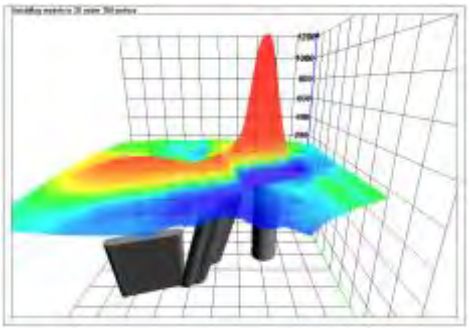
This option provides greater versatility and flexibility, which is particularly valuable for high-productivity surveys or in rough terrain.

GSM-19V / GV "VLF" Option

With GEM's omnidirectional VLF option, up to 3 stations of VLF data can be acquired without orienting. Moreover, the operator is able to record both magnetic and VLF data with a single stroke on the keypad.

3rd Party Software - A One-Stop Solution for Your Potential Field Needs

Now it's even easier to take data from the field and quality control stage through to final map preparation and modeling.



GEM-VIS provides links to fast 3D modeling via Encom's professional QuickPro software.

GEM provides very comprehensive solution available for working with magnetometer data:

o Free GEMLinkW Transfer and Internet Upgrade software
o Optional, low-cost GEM-VIS Quality Control, Visualization and Analysis
o Optional Data Processing
o Optional QuickMag Pro Automated Modeling and Inversion

V7.0 and V6.0 - Technology Developments

One of the main differences between GEM and other manufacturers is GEM's 30 years consistent focus on developing leading-edge magnetic technologies.

This commitment has led to many innovations in sensor technology; signal counting; firmware and software; and hardware and console design, culminating in the release of v7.0.

v7.0 and the previous release (v6.0) of the GSM-19 system provides many examples of the ways in which GEM continues to advance magnetics technologies for its customers.

Enhanced data quality:

o 25% improvement in sensitivity (new frequency counting algorithm)
o new intelligent spike-free algorithm (in contrast to other manufacturers, GEM does not apply smoothing or filtering to achieve high data quality)

Improved operational efficiency:

o Enhanced positioning (GPS engine with optional integrated / external GPS and real-time navigation)
o 16 times increase in memory to 32 Mbytes standard
o 1000 times improvement in processing and display speed (RISC microprocessor with 32-bit data bus)
2 times faster digital data link
(115 kBaud through RS-232)

Innovative technologies:

o Battery conservation and survey flexibility (base station scheduling option with 3 modes - daily, flexible and immediate start)
o Survey pre-planning (up to 1000 programmable waypoints that can be entered directly or downloaded from PC for greater efficiency)
o Efficient GPS synchronization of field and base units to Universal Time (UTC)
o Cost saving with firmware upgrades

GEM's Proven Overhauser System

In a standard Proton magnetometer, current is passed through a coil wound around a sensor containing a hydrogen-rich fluid. The auxiliary field created by the coil (>100 Gauss) polarizes the protons in the liquid to a higher thermal equilibrium.

When the current, and hence the field, is terminated, polarized protons precess in the Earth's field and decay exponentially until they return to steady state. This process generates precession signals that can be measured as described below. Overhauser magnetometers use a more efficient method that combines electron-proton coupling and an electron-rich liquid (containing unbound electrons in a solvent con-taining a free radical). An RF magnetic field that corresponds to a specific energy level transition, stimulates the unbound electrons.

Instead of releasing this energy as emitted radiation, the unbound electrons transfer it to the protons in the solvent. The resulting polarization is much larger, leading to stronger precession signals.

Overhauser and proton precession, measure the scalar value of the magnetic field based on the proportionality of precession frequency and magnetic flux density (which is linear and known to a high degree of ac-curacy). Measurement quality is calculated using signal amplitude and its decay cha-racteristics. Values are averaged over the sampling

As the world's experienced manufacturer of commercial Overhauser systems, GEM's technical focus on the GSM-19 has resulted in a superior magnetic measuring device with high sensitivity, high cycling speed, low noise, and very low power consumption over a wide temperature range.

With minor software modifications (i.e. addition of a small auxiliary magnetic flux density while polarizing), it can be easily configured for high sensitivity readings in low magnetic fields (for equatorial work).

GPS - Positioning You for Effective Decision Making

The use of GPS technology is increasing in earth science disciplines due to the ability to make better decisions in locating anomalies, and in improving survey cost effectiveness and time management.

Examples of applications include:

o Surveying in remote locations with no grid system (Arctic for diamond exploration)

o High resolution exploration mapping

o High productivity ferrous ordnance (UXO) detection

o Ground portable magnetic and gradient surveying for environmental and engineering applications

o Base station monitoring for observing diurnal magnetic activity and disturbances with integrated GPS time

GEM addresses requests for GPS and high-resolution Differential GPS (DGPS) through internal and external options. Customer units can also be integrated. GPS surveys return a variety of real data to the user, including Time, Latitude and Longi-tude, UTM, Elevation and # of Satellites. This data is available to be applied in various ways by the user. The table below shows GPS modes, ranges and services.

Description	Range	Services
GPS Option A		Time reception only
GPS Option B	<1.5m	DGPS*
GPS Option C	<0.6m	DGPS*, OmniStar
GPS Option D	<0.6m <0.6m <0.7m	CDGPS, DGPS*, OmniStar
Output		
Time, Lat / Long, UTM, Elevation and number of Satellites		
***DGPS with SBAS (WAAS / EGNOS / MSAS)**		

Key System Components

Key components that differentiate the GSM-19 from other systems on the market include the sensor and data acquisition console. Specifications for components are provided on the right side of this page.

Sensor Technology

GEM's sensors represent a proprietary innovation that combines advances in electronics design and quantum magnetometer chemistry.

Electronically, the detection assembly includes dual pick-up coils connected in series opposition to suppress far-source electrical interference, such as atmospheric noise. Chemically, the sensor head houses a proprietary hydrogen-rich liquid solvent with free electrons (free radicals) added to increase the signal intensity under RF polarization.

From a physical perspective, the sensor is a small size, light-weight assembly that houses the Overhauser detection system and fluid. A rugged plastic housing protects the internal components during operation and transport.

All sensor components are designed from carefully screened non-magnetic materials to assist in maximization of signal-tonoise. Heading errors are also minimized by ensuring that there are no magnetic inclusions or other defects that could result in variable readings for different orientations of the sensor.

Optional omni-directional sensors are available for operating in regions where the magnetic field is near-horizontal (i.e. equatorial regions). These sensors maximize signal strength regardless of field direction.

Data Acquisition / Console Technology

Console technology comprises an external keypad / display interface with internal firmware for frequency counting, system control and data storage / retrieval. For operator convenience, the display provides both monochrome text as well as real-time profile data with an easyto-use interactive menu for performing all survey functions.

The firmware provides the convenience of upgrades over the Internet via the GEMLinkW software. The benefit is that instrumentation can be enhanced with the latest technology without returning the system to GEM -- resulting in both timely implementation of updates and reduced shipping / servicing costs.

Specifications

Performance

Sensitivity:	0.022 nT / √Hz
Resolution:	0.01 nT
Absolute Accuracy:	+/- 0.1 nT
Range:	20,000 to 120,000 nT
Gradient Tolerance:	< 10,000 nT/m
Samples at:	60+, 5, 3, 2, 1, 0.5, 0.2 sec
Operating Temperature:	-40C to +50C

Operating Modes

Manual: Coordinates, time, date and reading stored automatically at minimum 3 second interval.
Base Station: Time, date and reading stored at 1 to 60 second intervals.
Remote Control: Optional remote control using RS-232 interface.
Input / Output: RS-232 or analog (optional) output using 6-pin weatherproof connector.

Storage - 32 MB (# of Readings)

Mobile:	1,465,623
Base Station:	5,373,951
Gradiometer:	1,240,142
Walking Mag:	2,686,975

Dimensions

Console:	223 x 69 x 240 mm
Sensor:	175 x 75mm diameter cylinder

Weights

Console with Belt:	2.1 kg
Sensor and Staff Assembly:	1.0 kg

Standard Components

GSM-19 console, GEMLinkW software, batteries, harness, charger, sensor with cable, RS-232 cable and USB adapter, staff, instruction manual and shipping case.

Optional VLF

Frequency Range: Up to 3 stations between 15 to 30.0 kHz. Parameters: Vertical in-phase and out-of-phase components as % of total field. 2 components of horizontal field amplitude and total field strength in pT.

Resolution:	0.1% of total field

Our World is Magnetic.

About GEM Advanced Magnetometers

GEM Systems, Inc. delivers the world's only magnetometers and gradiometers with built-in GPS for accurately positioned ground, airborne and stationary data acquisition. The company serves customers in many fields including mineral exploration, hydrocarbon exploration, environmental and engineering, Unexploded Ordnance Detection, archeology, earthquake hazard prediction and observatory research.

Key products include the Proton Precession, Overhauser and Optically-Pumped Potassium instruments.

Each system offers unique benefits in terms of sensitivity, sampling, and acquisition of high-quality data. These core benefits are complemented by GPS technologies that provide metre to sub-metre positioning.

With customers in more than 50 countries globally and more than 25 years of continuous technology R&D, GEM is known as the only geophysical instrument manufacturer that focuses exclusively on magnetic technology advancement.

GEM SYSTEMS
ADVANCED MAGNETOMETERS

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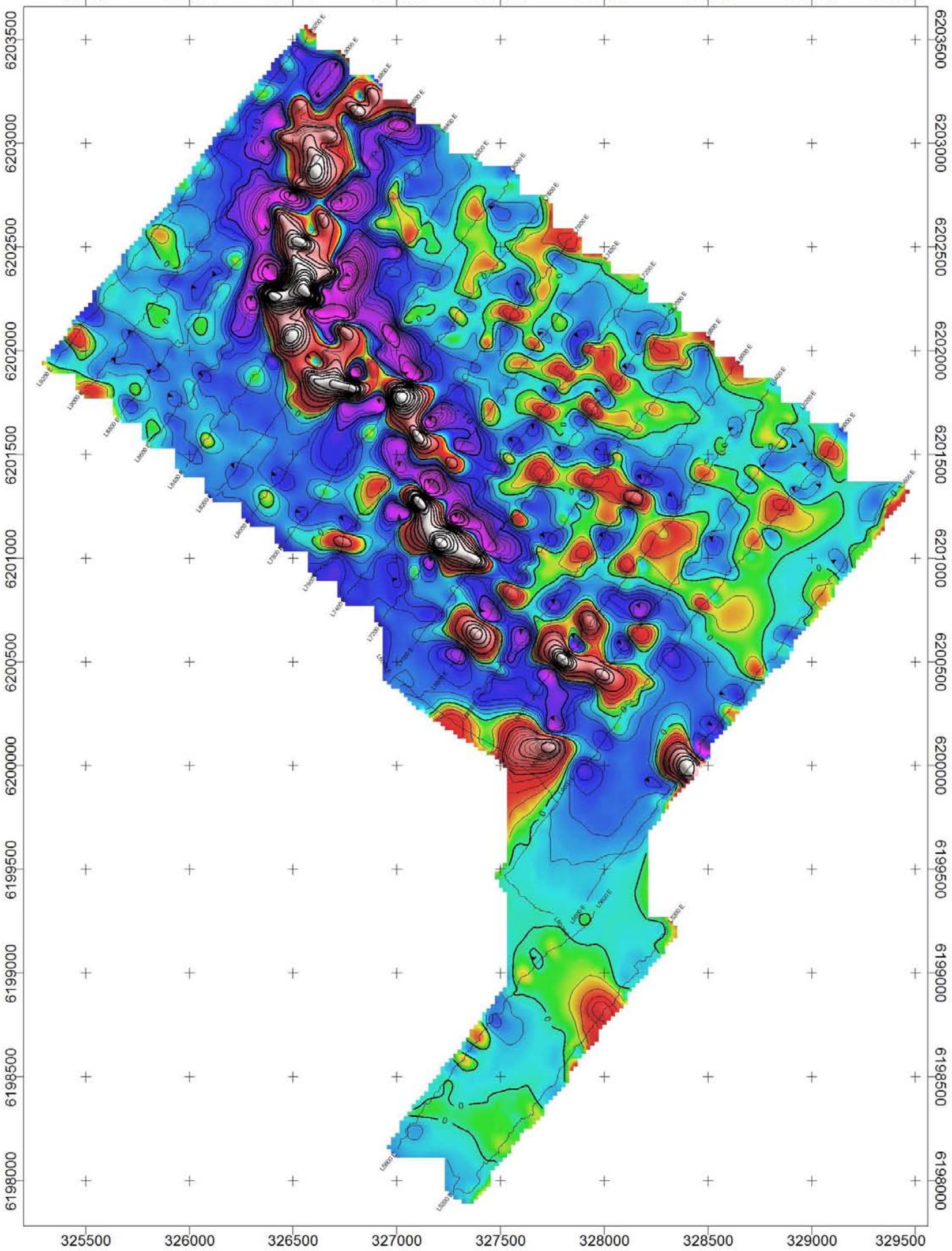


Scale 1:20000

250 0 250 500 750 1000

(meters)

NAD83 / UTM zone 10N

52.6
21.9
9.9
5.7
3.7
2.6
1.8
1.2
0.8
0.4
0.1
-0.2
-0.5
-0.7
-1.0
-1.3
-1.6
-1.9
-2.3
-2.7
-3.1
-3.5
-4.0
-4.4
-4.8
-5.3
-6.0
-7.0
-8.3
-10.1
-13.7
-22.6

1VD (nT/m)

SURVEY SPECIFICATIONS:
Survey Date: Oct 6 - 10, 2011
Nominal Line Spacing: 200 metres
Nominal Station Spacing: ~ 1 metre

INSTRUMENTATION:
GSM-19 Walking GPS (two) units
GSM-19 Base Station unit

CONTOUR INTERVAL:
2 & 10 nT/m

SOINTULA RESOURCES INC.

Pinchi Project

North-Central British Columbia

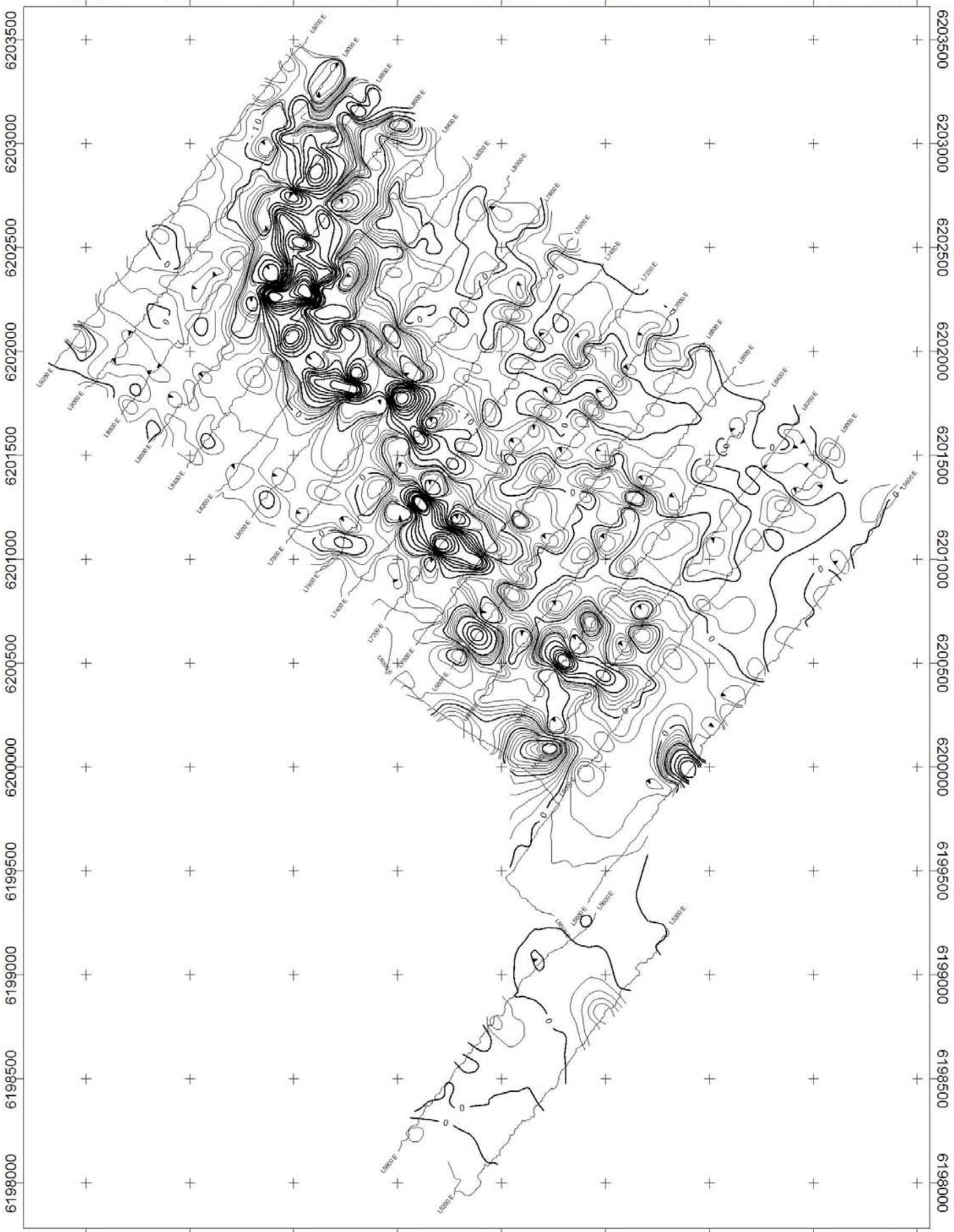
NTS 93 N/13 Ogden Creek

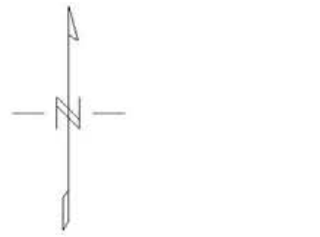
Calculated 1st Vertical Derivative

Walking GPS Magnetometer Survey

MERIDIAN MAPPING

November 2011





Scale 1:20000

250 0 250 500 750 1000

(meters)

NAD83 / UTM zone 10N

SURVEY SPECIFICATIONS:
Survey Date: Oct 6 - 10, 2011
Nominal Line Spacing: 200 metres
Nominal Station Spacing: ~ 1 metre

INSTRUMENTATION:
GSM-19 Walking GPS (two) units
GSM-19 Base Station unit

CONTOUR INTERVAL:
2 & 10 nT/m

SOINTULA RESOURCES INC.

Pinchi Project

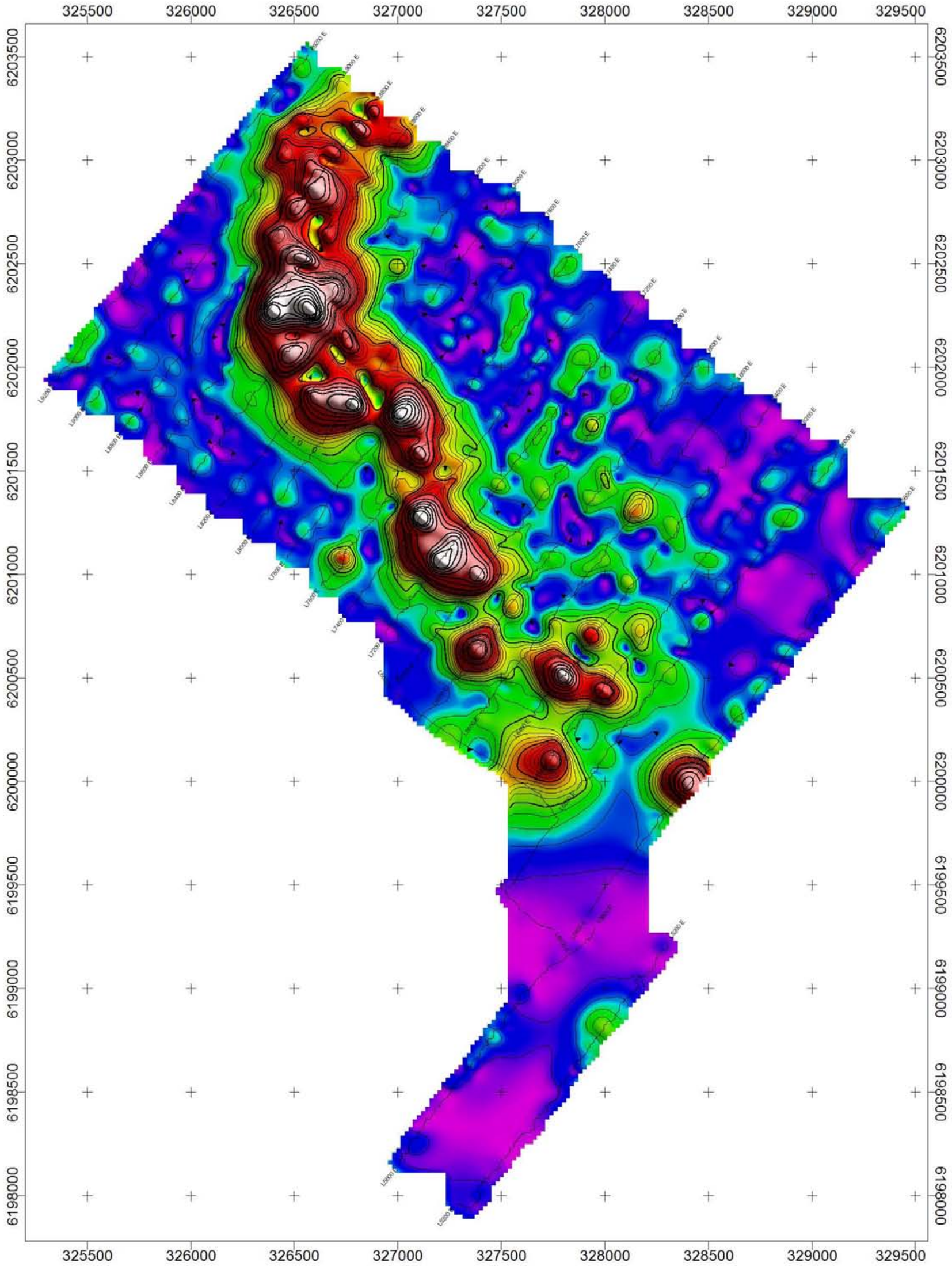
North-Central British Columbia

NTS 93 N/13 Ogden Creek

Calculated 1st Vertical Derivative

Walking GPS Magnetometer Survey

November 2011



Scale 1:20000

250 0 250 500 750 1000

(meters)

NAD83 / UTM zone 10N

74.5
45.0
31.0
23.8
19.0
15.2
12.1
10.0
8.7
7.7
6.8
6.2
5.6
5.2
4.8
4.5
4.2
4.0
3.7
3.5
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.5
1.3
1.0
0.6

Analytic Signal (nT/m)

SURVEY SPECIFICATIONS:
Survey Date: Oct 6 - 10, 2011
Nominal Line Spacing: 200 metres
Nominal Station Spacing: ~ 1 metre

INSTRUMENTATION:
GSM-19 Walking GPS (two) units
GSM-19 Base Station unit

CONTOUR INTERVAL:
2 & 10 nT/m

SOINTULA RESOURCES INC.

Pinchi Project

North-Central British Columbia

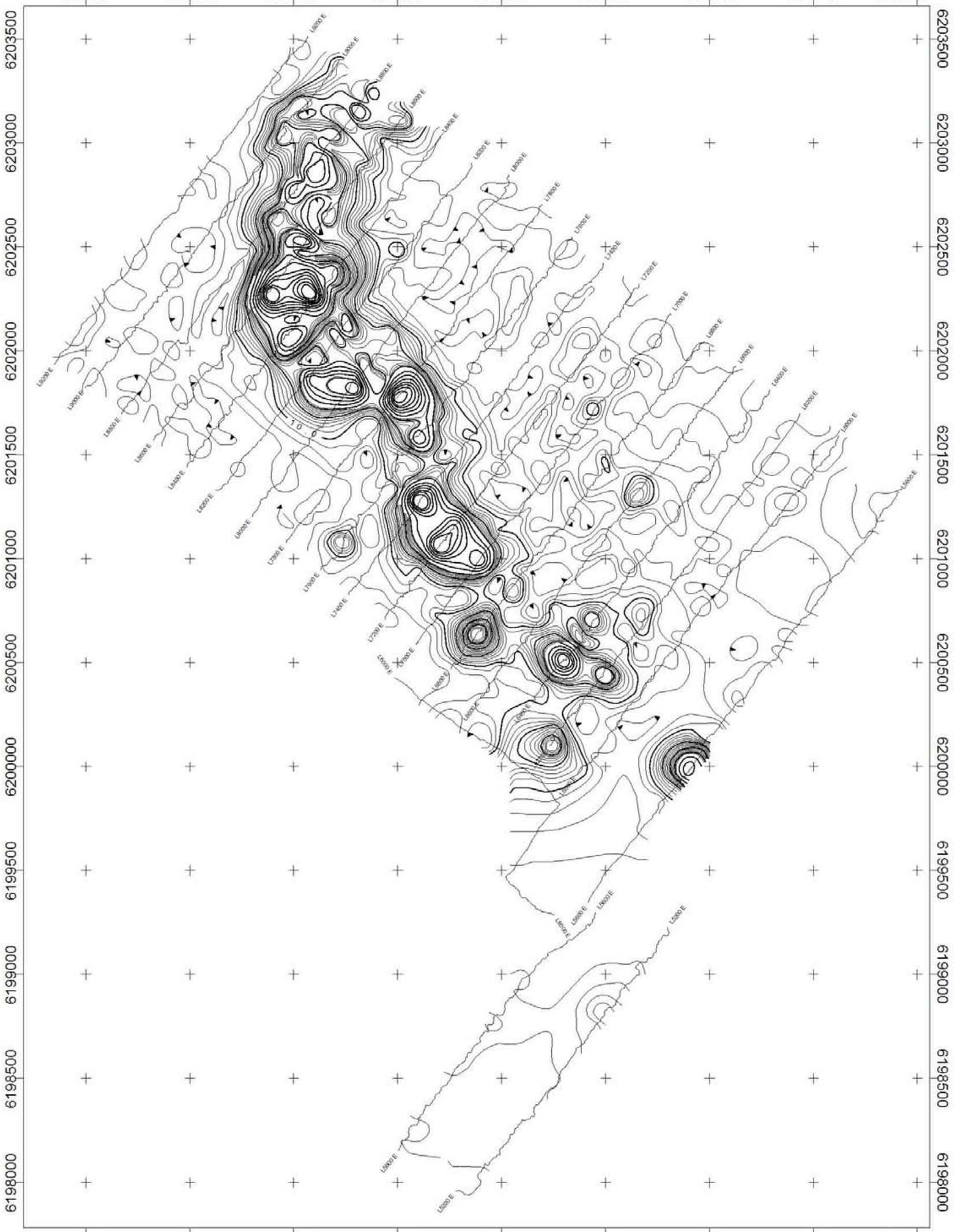
NTS 93 N/13 Ogden Creek

Analytic Signal

Walking GPS Magnetometer Survey

MERIDIAN MAPPING

November 2011



Scale 1:20000

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(meters)

NAD83 / UTM zone 10N

SURVEY SPECIFICATIONS:
Survey Date: Oct 6 - 10, 2011
Nominal Line Spacing: 200 metres
Nominal Station Spacing: ~ 1 metre

INSTRUMENTATION:
GSM-19 Walking GPS (two) units
GSM-19 Base Station unit

CONTOUR INTERVAL:
2 & 10 nT/m

SOINTULA RESOURCES INC.

Pinchi Project

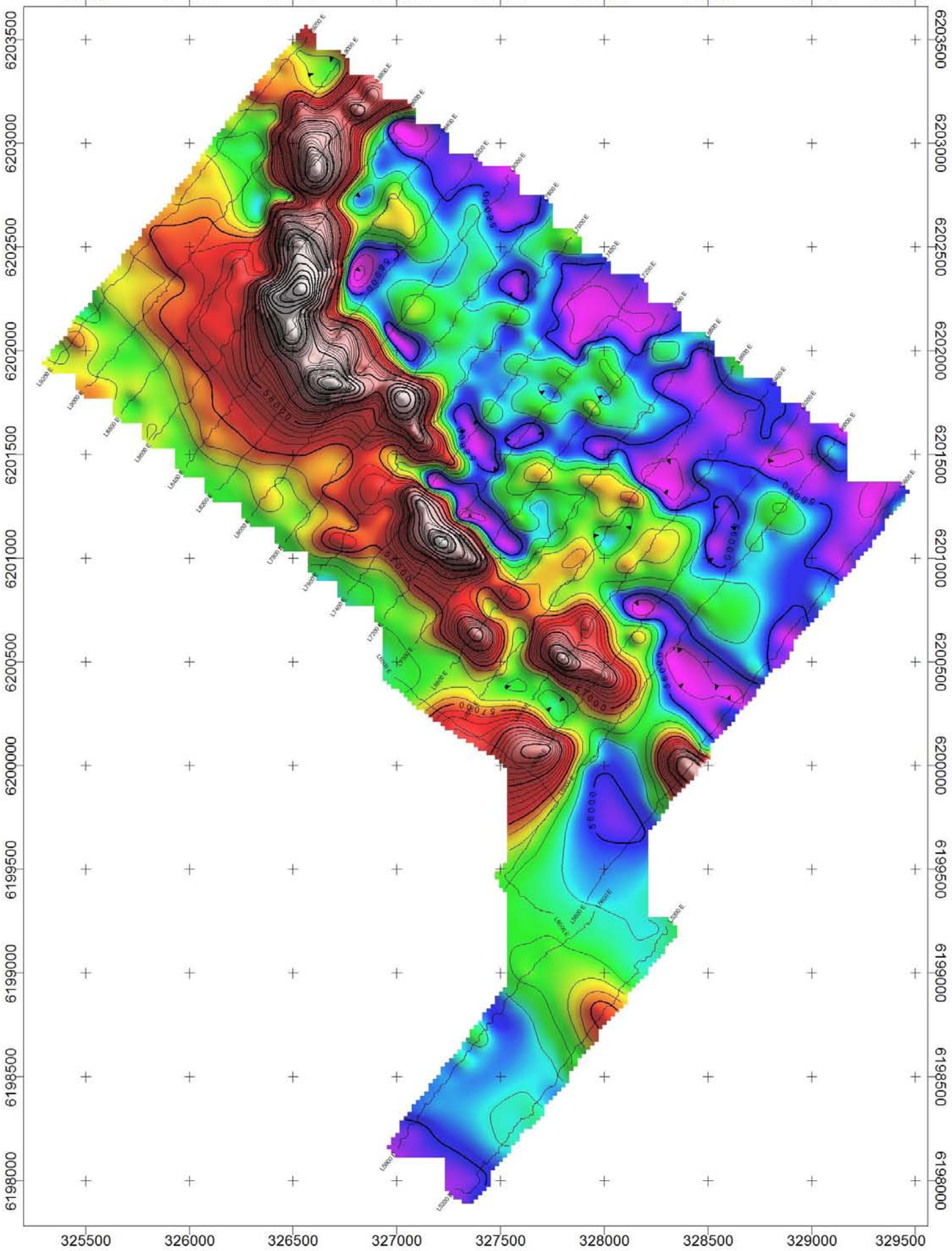
North-Central British Columbia

NTS 93 N/13 Ogden Creek

Analytic Signal

Walking GPS Magnetometer Survey

November 2011



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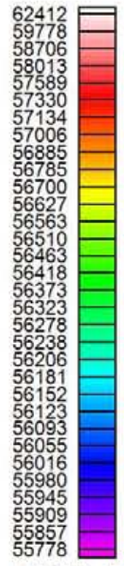
(meters)

NAD83 / UTM zone 10N



SURVEY SPECIFICATIONS:
Survey Date: Oct 6 - 10, 2011
Nominal Line Spacing: 200 metres
Nominal Station Spacing: ~ 1 metre

INSTRUMENTATION:
GSM-19 Walking GPS (two) units
GSM-19 Base Station unit

CONTOUR INTERVAL:
200 & 1000 nT

SOINTULA RESOURCES INC.

Pinchi Project

North-Central British Columbia

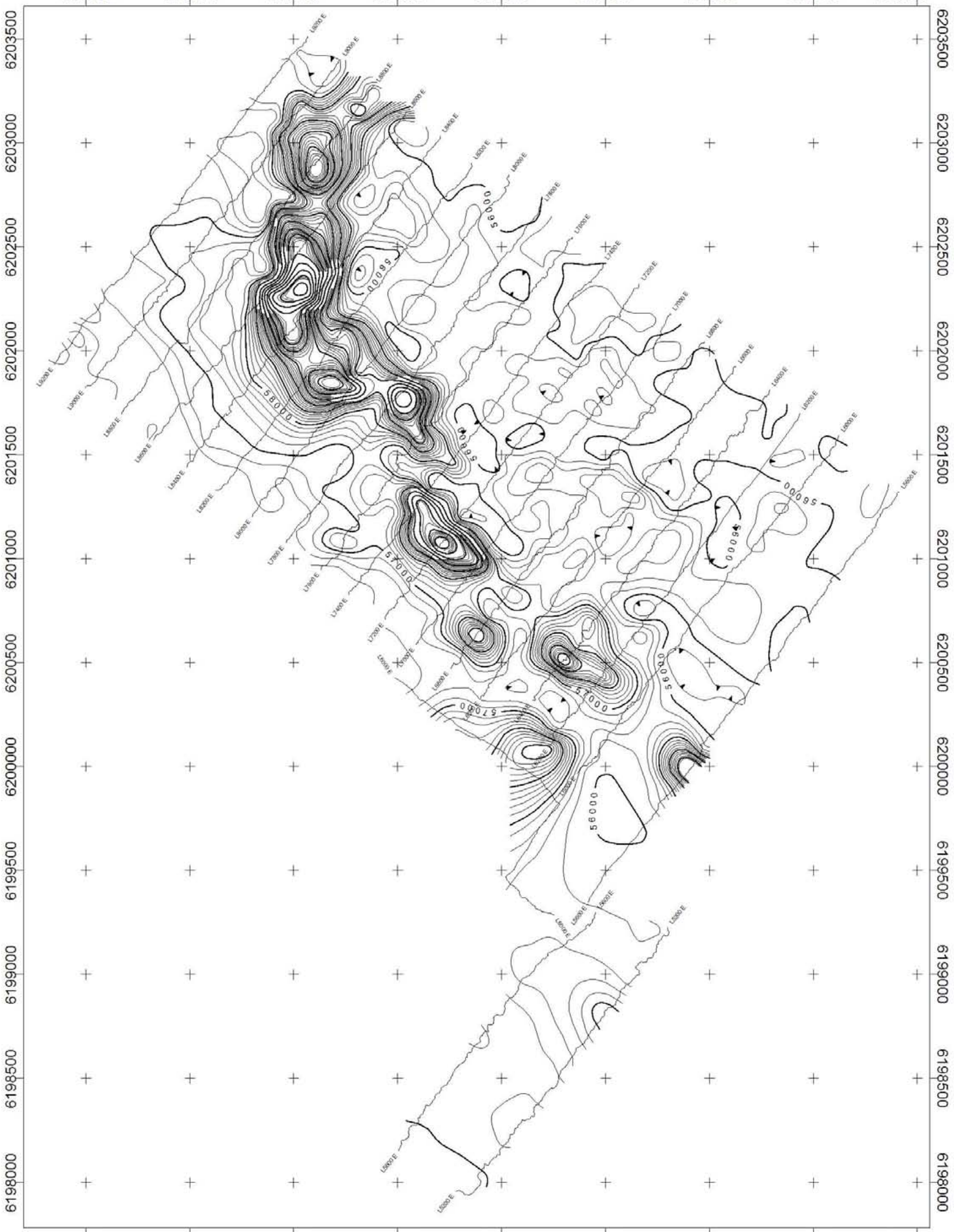
NTS 93 N/13 Ogden Creek

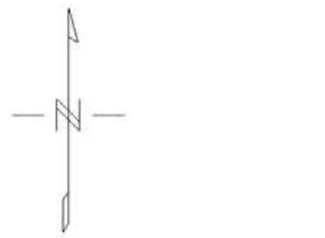
Total Magnetic Intensity

Walking GPS Magnetometer Survey

MERIDIAN MAPPING

November 2011





Scale 1:20000

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(meters)

NAD83 / UTM zone 10N

SURVEY SPECIFICATIONS:
Survey Date: Oct 6 - 10, 2011
Nominal Line Spacing: 200 metres
Nominal Station Spacing: ~ 1 metre

INSTRUMENTATION:
GSM-19 Walking GPS (two) units
GSM-19 Base Station unit

CONTOUR INTERVAL:
200 & 1000 nT

SOINTULA RESOURCES INC.

Pinchi Project

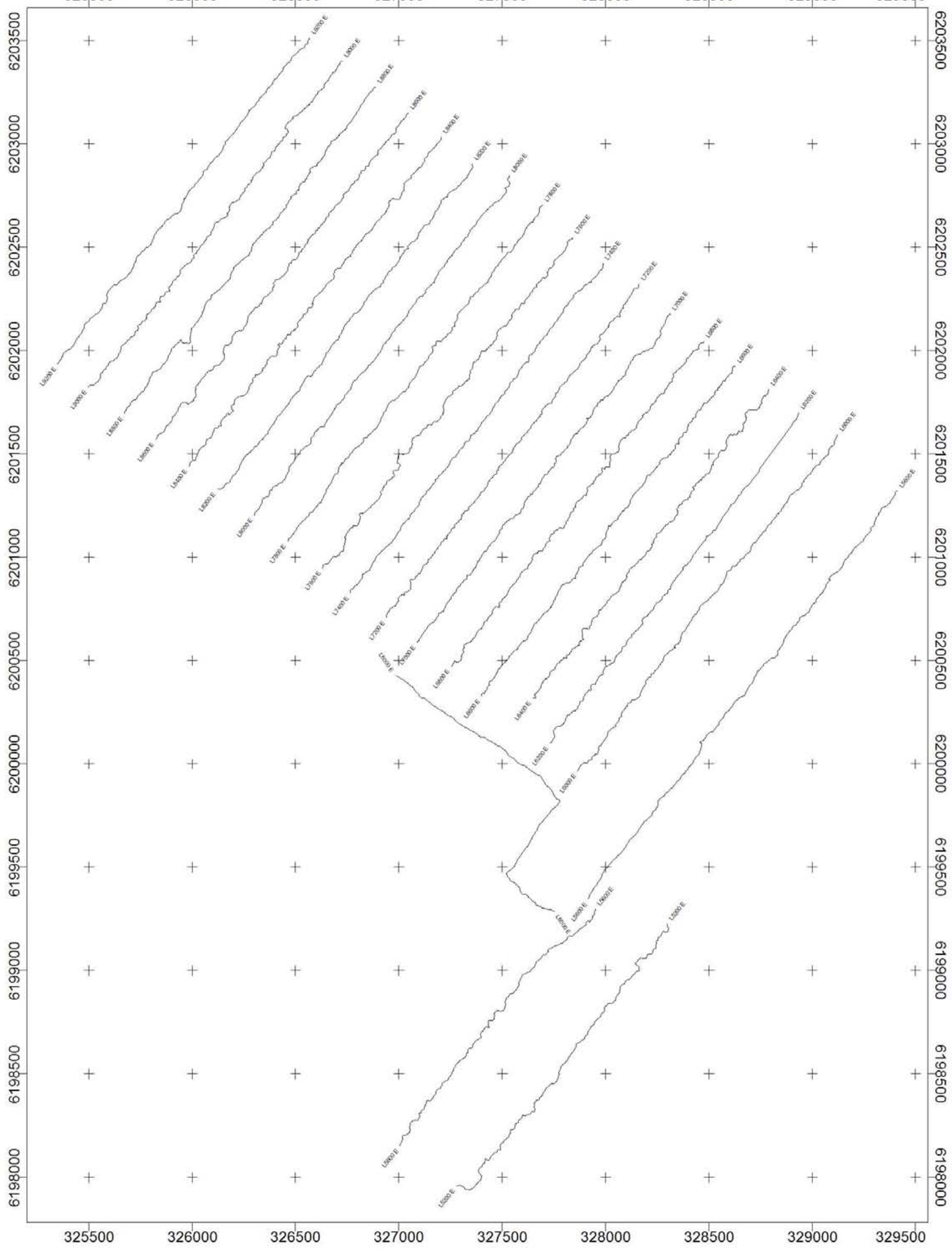
North-Central British Columbia

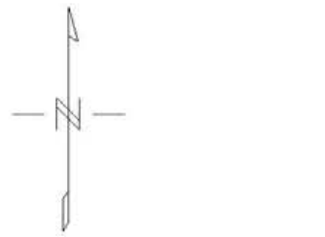
NTS 93 N/13 Ogden Creek

Total Magnetic Intensity

Walking GPS Magnetometer Survey

November 2011





Scale 1:20000

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(meters)

NAD83 / UTM zone 10N

SURVEY SPECIFICATIONS:
Survey Date: Oct 6 - 10, 2011
Nominal Line Spacing: 200 metres
Nominal Station Spacing: ~ 1 metre

INSTRUMENTATION:
GSM-19 Walking GPS (two) units
GSM-19 Base Station unit

CONTOUR INTERVAL:
200 & 1000 nT

SOINTULA RESOURCES INC.

Pinchi Project

North-Central British Columbia

NTS 93 N/13 Ogden Creek

Total Magnetic Intensity

Walking GPS Magnetometer Survey

November 2011

325500 326000 326500 327000 327500 328000 328500 329000 329500

6203500 6203000 6202500 6202000 6201500 6201000 6200500 6200000 6199500 6199000 6198500 6198000

Scale 1:20000

250 0 250 500 750 1000

(meters)

NAD83 / UTM zone 10N

SURVEY SPECIFICATIONS:
Survey Date: Oct 6 - 10, 2011
Nominal Line Spacing: 200 metres
Nominal Station Spacing: ~ 1 metre

INSTRUMENTATION:
GSM-19 Walking GPS (two) units
GSM-19 Base Station unit

PROFILE SCALE:
400 nT/mm (56,800 nT base level)

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Pinchi Project

North-Central British Columbia

NTS 93 N/13 Ogden Creek

Total Magnetic Intensity

Walking GPS Magnetometer Survey

MERIDIAN MAPPING

November 2011