



Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Soil geochemistry, IP geophysics

TOTAL COST: \$97,952.17

AUTHOR(S): Gerald G. Carlson

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-4-726; October 12, 2018 to October 12, 2023

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5722995; July 1, 2018 to December 12, 2018

PROPERTY NAME: Spius

CLAIM NAME(S) (on which the work was done): SPIUS15A, SPIUS15B, SPIUS15C, SPIUS15D, SPIUS16A, SPIUS16B

COMMODITIES SOUGHT: Cu, Mo

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092HNNW027

MINING DIVISION: New Westminster and Nicola

NTS/BCGS: 92H/14

LATITUDE: 49 ° 55 ' 05 " LONGITUDE: 121 ° 16 ' 01 " (at centre of work)

OWNER(S):

1) Pacific Ridge Exploration Ltd.

2) _____

(Registered owner)

MAILING ADDRESS:

1100 - 1111 Melville Street, Vancouver, BC, V6E 3V6

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

1) Pacific Ridge Exploration Ltd.

2) _____

MAILING ADDRESS:

1100 - 1111 Melville Street, Vancouver, BC, V6E 3V6

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

Mt. Lytton Batholith, Eagle Granodiorite, Quesnel Terrane, Porphyry Cu-Mo

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 3052, 5389, 6145, 33913, 36631, 37323

Property Files 8727, 8729

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	11.5 km	SPIUS15B, SPIUS15C, SPIUS15D	\$59,664.20
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne		_____	_____
GEOCHEMICAL (number of samples analysed for...)			
Soil	170 Samples; 51 element ICP-AES and ICP-MS	SPIUS15B, SPIUS15C, SPIUS15D	\$34,649.97
Silt	_____	_____	_____
Rock	_____	_____	_____
Other	_____	_____	_____
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	\$3,638.00
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:	\$97,952.17



**Report on the 2018 IP Geophysical and
Soil Geochemical Program**

on the

SPIUS PROPERTY

Spius Creek, New Westminster and Nicola Mining Divisions, British Columbia

NTS: 92H/14

2016 WORK CENTERED AT APPROXIMATELY:

**49°55'05" N Latitude, 121°16'01" W Longitude
624,405 m E, 5,530,970 m N, UTM NAD 83, Zone 10N**

Owners and Optionors:

**Michael A. Blady (25%, FMC no. 278776),
Gerald G. Carlson (25%, FMC no. 104271),
John A. Chapman (25%, FMC no. 104633),
Christopher R. Paul (25%, FMC no. 269478)**

For Work Performed between October 15 and October 25, 2018

by

Gerald G. Carlson, Ph.D., P.Eng.

December 30, 2018

Revised August 26, 2019

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SUMMARY

The Spius mineral property (the “Property”) is in the Nicola and New Westminster Mining Divisions, British Columbia, 40 km southwest of Merritt and 10 km east-northeast of Boston Bar. The Property is in the Spius Creek watershed centered at approximately 49°55’05” N and 121°16’01” W on NTS map sheet 92H/14 and is known in MINFILE as “Gossan” (No. 092HNW027). The Property comprises six mineral claims covering 2,101 hectares.

The Spius claims are accessed from Merritt by heading SE for 25 km on the Coldwater Road to the well-maintained Patchett/Spius FSR. The Property lies within the Eagle Plutonic Complex: Rocks within the Property are mainly biotite-hornblende granodiorite, with younger feldspar porphyry and quartz-feldspar porphyry intruded by felsic and lamprophyre dikes. The Copper Zone, in the central part of the Property, is defined by a strong copper soil geochemical anomaly, with associated anomalous molybdenum, with a surrounding pyritic alteration zone. Although the Copper Zone is mainly till covered, mineralization has been observed mainly in float and occasionally in outcrop and includes secondary copper mineral, including malachite and azurite, locally chalcopyrite in stockwork veins and disseminations and minor molybdenite.

Exploration dates to the 1960’s, when Orequest Exploration Syndicate (1969), Murray Mining (1969), Arrow Inter-America (1970), Brascan Resources (1971 and 1974) and Canadian Occidental Petroleum (1976) explored the claims. Work during this period included geological mapping, soil sampling, IP and EM geophysical surveys, road building, trenching and drilling (10 percussion drill holes and 12 diamond drill holes), all less than 100 m depth. Unfortunately, the data from most of this work was not recorded in assessment reports and has now been lost.

In 2012, J.T. Shearer made a significant new Cu soil geochemical discovery along the Spius lower access road approximately 250 m south of the previously defined Copper Zone.

In 2016, the current owners acquired the claims by staking. In 2016 and 2017, they confirmed and expanded the Copper Zone anomaly through prospecting and additional sampling.

In 2017, Bruce and Patricia Bried (“Bried”) optioned the Property and completed additional prospecting work and soil sampling.

In 2018, the Property was acquired from Bried by Pacific Ridge Exploration Ltd. (“Pacific Ridge”). In October 2018, Pacific Ridge completed a program of B horizon soil sampling and an IP geophysical survey, the description and interpretation of which is the subject of this report.

The soil survey confirmed and better defined the Copper Zone anomaly as outlined by earlier workers. Anomalous molybdenum and silver values occur both within the Copper Zone and as isolated anomalies outside the Copper Zone. The soil survey confirms the Copper Zone as a porphyry copper target.

The IP survey shows a horseshoe-shaped chargeability anomaly that surrounds and partially overlaps the Copper Zone anomaly. This is interpreted to reflect the presence of an annular shell of disseminated sulphide mineralization, grading outwards from an inner pyrite-chalcopyrite zone to an outer pyrite shell. Peripheral zones of low resistivity may reflect zones of more intense pyrite mineralization.

The Copper Zone is interpreted to be a partially unroofed porphyry system that is largely covered with glacial till and colluvium. This interpretation is supported by soil geochemical and IP geophysical surveys that define the central Copper Zone anomaly surrounded by a high chargeability zone that is interpreted as a copper mineralized shell surrounded by a pyrite dominant halo. The known geology supports this interpretation. The most common lithology is the pre-mineral, foliated Eagle Granodiorite that is locally mineralized with disseminated pyrite and propylitically altered. The few occurrences of younger porphyry are altered and locally brecciated. Copper mineralization in this porphyry is associated with potassic and sericitic alteration.

A program of 1,500 m of core drilling, with 6 x 250 m drill holes, is recommended to test the Copper Zone, with an estimated budget of \$450,000.

INTRODUCTION

The Spius property (the “Property”) covers a MINFILE porphyry Cu-Mo showing (092HNW027) known as “Gossan”. The Property is 2,101 ha in size, centred on the headwaters of Spius Creek. Access to the Property is via the Spius Creek FSR, which is deactivated for the last 10 km leading into the claims.

Given the proximity to existing major mines in the area and the excellent infrastructure and local resources in the nearby service center of Merritt, the Property is very well located for a commercial mining operation. The Cu-Mo mineralization and intense alteration observed suggest the presence of a large hydrothermal system with a zoned pattern of alteration, characteristic of porphyry copper systems. Only a small portion of the prospective ground staked has been drill tested. Given the similarities in geology (granodiorite batholith), age (Late Triassic-Early Jurassic), genetic relations (Quesnel Terrane) and alteration (EDM veins and large secondary muscovite) to the nearby Highland Valley Copper Mine, good potential exists for the discovery of a similar bulk-tonnage copper-moly porphyry deposit

This report documents a B Horizon soil sampling and IP geophysical survey carried out on the Property from October 15 to 25, 2018. The objective of this program was to confirm and define in greater detail the results of the earlier IP survey (Fominoff, 1970), the results of which are available only in summary form, and to extend the soil geochemical survey to the edges of the new IP survey. The soil sampling was carried out by a three-person crew of one geologist and two samplers from Ridgeline Exploration Ltd. Sampling was carried out along the 250 m spaced IP lines, roughly 2 km in length, on 50 m centres, resulting in the collection of 170 samples. The IP survey, for a total of 11.5 km, was completed by a six-person crew from Peter E. Walcott and Associates Limited.

The soil survey confirmed the presence of the previously defined Copper Zone anomaly and defined its limits on three sides. The IP survey confirmed the presence of a horseshoe-shaped IP chargeability anomaly surrounding the Copper Zone soil anomaly, with a chargeability low in the middle.

The total cost of the work to be applied for assessment is \$97,952.17.

LOCATION AND ACCESS

The claims are in southwestern British Columbia (Figure 1), approximately 10 km east-northeast of Boston Bar and 40 km southwest of Merritt, BC. The Property is centered at approximately 49°55’05” N latitude and 121°16’01” W longitude on NTS map sheet 92H/14.

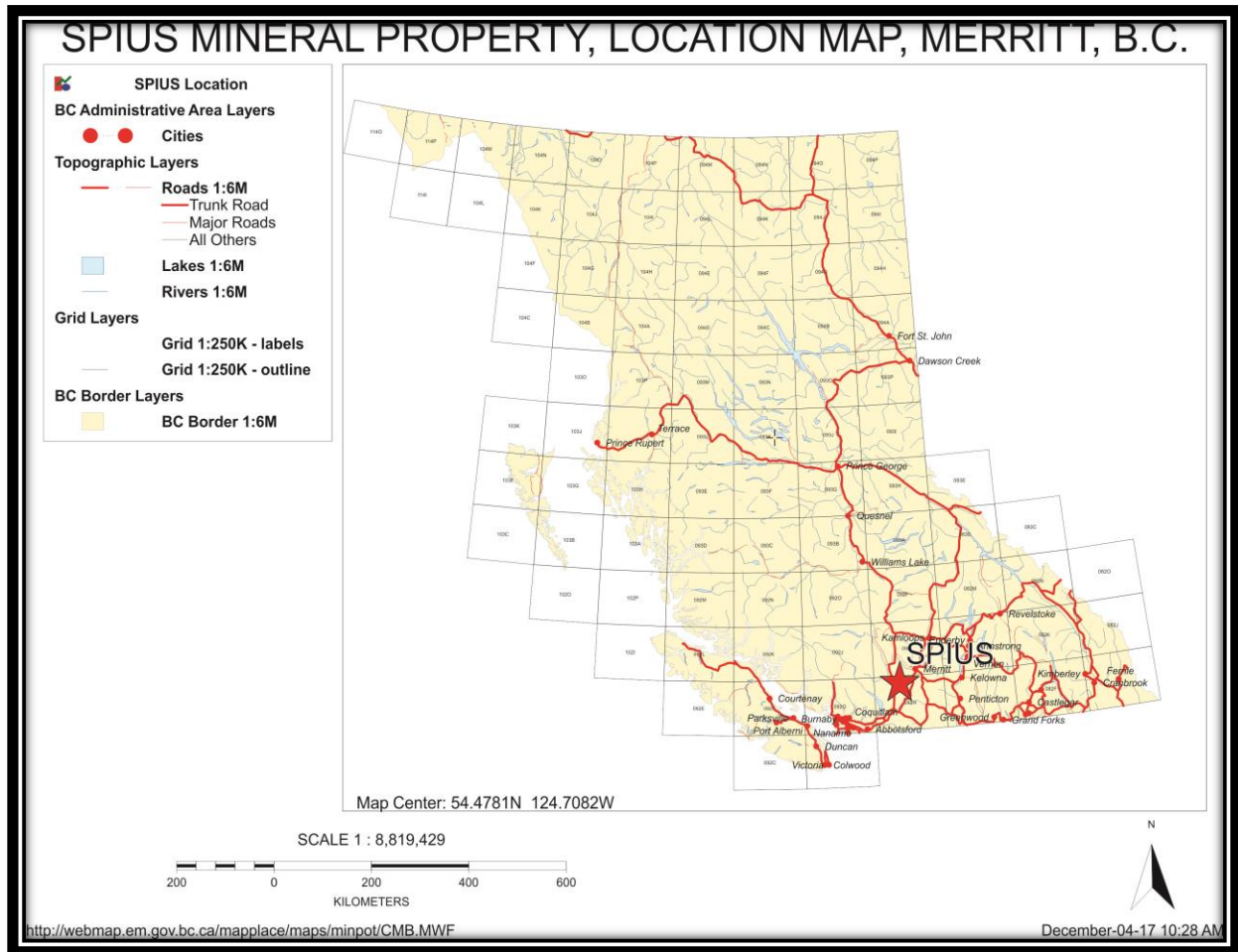


Figure 1. Spius property location map.

The claims are accessed from Merritt (Figure 2) by heading southeast on Coldwater Road for 25 km and then west onto Patchett Road, a ranch road which ends at kilometer 11 and becomes the Spius Creek FSR, which is also the boundary of cellular service. At kilometer 25 of the Spius Creek FSR, a right turn is made over a bridge, followed by an immediate left onto the deactivated final section of the Spius Creek FSR, which continues for another 8.4 km, where it forks upon entering the Property. A right turn at the fork traverses the northern section of the claim block, while a left continues along the north side of Spius Creek and becomes heavily overgrown with alder and willow bushes for 8.5 km across the entire length of the Property. Several kilometers of brush were cleared on either side of the road in 2016, making enough room for a 4x4 truck to pass through. An overgrown bulldozer trail traverses north across the area of historical work up from the Spius Creek FSR.

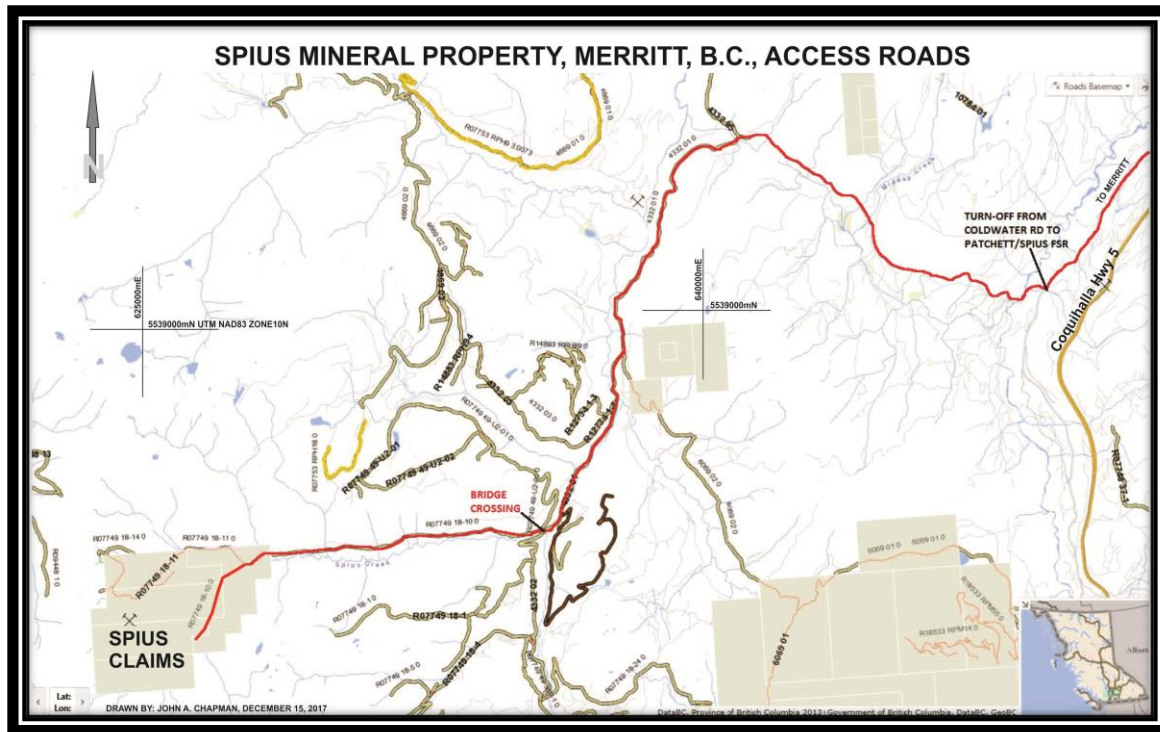


Figure 2. Spius property access from Coldwater Road.

Alternatively, a helicopter can be chartered from Merritt, approximately a 25-minute ferry time from the claims.

PHYSIOGRAPHY AND CLIMATE

Geographically, the claims lie along the eastern edge of the Pacific Coastal Mountains. Elevations range from 1100 m at Spius Creek to 1,840 m at the highest point in the headwaters. The claims are centered on Spius Creek, with the mineral showings situated on a moderately steep south-facing slope. Most rock outcroppings are limited to higher elevations and creek drainages. Seasonal exploration surveys can commence from about early June and normally end by late October.

The project area lies within the transition zone between the rugged Coast Mountains to the west and the rolling Interior Plateau physiographic province to the east. Relief is moderate on the claims, generally less than 600 m, with a mean elevation of 1400 masl. Topography is dominated by rocky ridges, which transition downward into colluvium-covered slopes, with alluvium-filled valley bottoms.

The climate is characterized by warm summers with temperatures ranging from 10 to 25° C and cold winters typically in the -10° C to -15° C range. The claims are situated just west of the interior rain shadow, and as such receive abundant precipitation carrying over from the Coast Mountains.

CLAIM STATUS

The Spius Property comprises 6 mineral claims covering 2,101 ha. Pacific Ridge is the recorder owner of a 100% interest in the claims while the beneficial owners are John A. Chapman (25%), Gerald G. Carlson (25% - held on behalf of KGE Management Ltd.), Christopher R. Paul (25%) and Michael A. Blady (25%) (Table 1 and Figure 3). The claims are in good standing to June 10, 2025, following a statement of work filed for work documented in this report.

Table 1. Summary of tenure data.

TENURE NO.	CLAIM NAME	ISSUE DATE	GOOD TO DATE	AREA (HA.)
1040682	SPIUS15A	2015/DEC/23	2025/JUN/10	249.6
1040681	SPIUS15B	2015/DEC/23	2025/JUN/10	312
1040680	SPIUS15C	2015/DEC/23	2025/JUN/10	270.5
1041084	SPIUS15D	2016/JAN/08	2025/JUN/10	249.7
1042505	SPIUS16A	2016/MAR/02	2025/JUN/10	332.8
1044594	SPIUS16B	2016/JUN/06	2025/JUN/10	686.9
TOTAL				2101.5

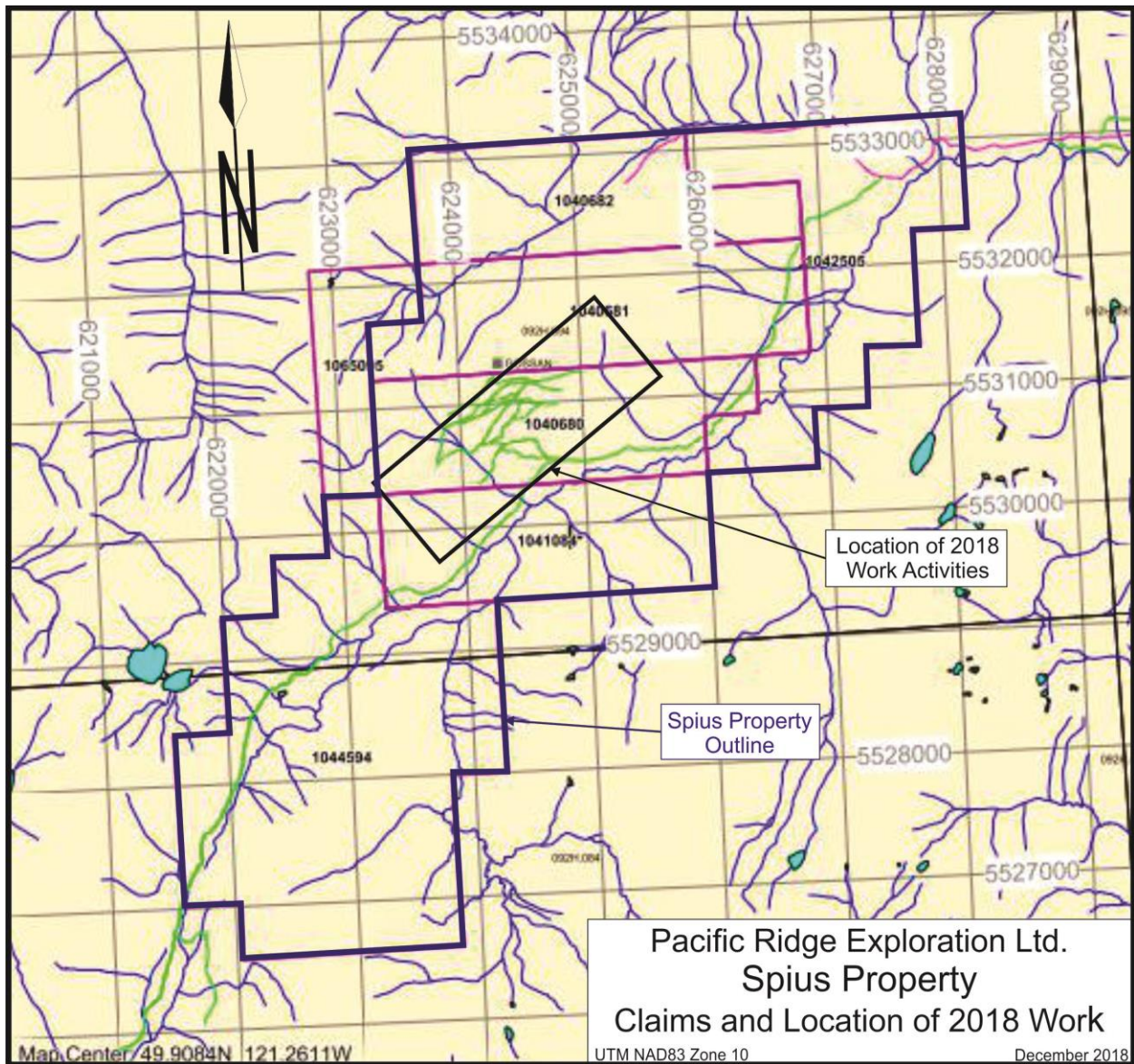


Figure 3: Spius property claim map and location of 2018 work.

EXPLORATION HISTORY

1968 - Orequest Exploration Syndicate optioned the Property from prospectors Clayton (Slim) Powney and John E. Nott and carried out trenching, geophysical and geochemical surveys, geological mapping and five diamond drill holes. Mapping revealed widespread mineralization containing appreciable pyrite along with some chalcopyrite and lesser chalcocite and molybdenite. Assays of the soil samples for copper and molybdenum showed sizeable parallel anomalous zones extending down the sidehill (Allen, 1969) with very high values up to 7,000 ppm Cu (George, 1976). The diamond drill holes were in the center of the Property, mostly within a feldspar porphyry intrusion, mostly within a pyritic gossan near the top of the

copper soil anomaly. Results of the drilling were not made available; however, a later Property File reports that DDH#2 intersected good mineralization in the bottom 60 ft (18.3 m), with the last 8 ft (2.43 m) ending in 0.42% Cu (Allen, 1969).

1969 - Murray Mining improved and re-located a portion of the access road from Merritt and constructed over 8 miles of new road to connect with logging roads leading into Boston Bar. In addition, trenches and switchback roads on the Property were cleared and extended. An electromagnetic survey was completed over part of the area, defining a 1700-foot-long conductor striking north 65 degrees east on the southwest side of Canyon Creek. The field distortion was strong and interpreted to be the result of sulphide mineralization at shallow depth. Ten percussion holes were drilled to a maximum depth of 300 ft to the east of Canyon Creek, with the closest hole being 400 ft (122 m) north and 200 ft (61 m) higher than the EM conductor zone (Figure 6.1). Each hole contained considerable pyrite, however no significant copper-molybdenum mineralization was intersected (Allen, 1969).

1970 – Arrow Inter-America Corporation conducted an IP survey which revealed that most of the rocks underlying the grid to a depth of 300 ft (91.5 m) contain 1-3% by volume of sulphide minerals. Observed chargeability values range from 1.0 to in excess of 30.0 milliseconds (ms). Most of the survey area exhibited chargeability responses in excess of 10.0 ms (Figure 6.1), which is a moderate chargeability level by normal standards. It was concluded that since the increased chargeability responses are so widespread, that it was difficult to recommend targets for further investigation based on the geophysical results alone (Fominoff, and Baird, 1970). A 1976 report by Canadian Occidental Petroleum Ltd. indicates that Arrow Inter-America also conducted a magnetometer and soil geochemical survey and geologically mapped the area, however the results are not available (George, 1976)

1971 – Brascan Resources Limited drilled 7 diamond drill holes on the Property, the results of which are not available, nor discussed in any later reports. The collar locations are shown on a 1974 compilation map by Brascan. They appear to have been drilled on a 500 m grid pattern.

1974 – Brascan Resources Limited carried out 8,400 ft (2,560 m) of road work and 6,300 ft (1,920 m) of trenching. The road cuts and trenches tested an alluvium covered area having a coincident magnetic high, chargeability low, greater than 500 ppm Cu soil anomaly and a molybdenum soil anomaly. Mapping of the trenches found that better copper mineralization is associated with pink feldspar and quartz veining. Alteration minerals including secondary muscovite, biotite, quartz and feldspars were noted (Gannon, 1974).

1976 – Canadian Occidental Petroleum Ltd. spent two days collecting approximately 100 soil and stream sediment samples, as well as examining outcrops on the Property. The geochemical results corresponded quite well with Orequest's prior survey, returning values of up to 2,970 ppm Cu and 230 ppm Mo. Contouring of the values delineated an area of 2,000 ft (610 m) by 1,500 ft (457 m) of greater than 500 ppm Cu in the central part of the grid, surrounding an area of 2,000 ft (610 m) by 400 ft (122 m) of greater than 1,000 ppm Cu, open to the south (Figure 6.1). Nine stream sediment samples returned values from 120 to 3,600 ppm Cu, with 5 values of greater than 1,000 ppm Cu. The conclusions of the 1976 report were that further work should be concentrated in the central area, bearing the large high value Cu soil geochemical anomaly and strong sericite alteration, as all the historic drilling had been focused outside of this zone (George, 1976). No further work however was conducted by Canadian Occidental on the Spius claims.

2012 – J.T. Shearer staked the area covering the Spius Property and collected 40 soil samples at 15 m spacing for 600 m along the Spius Creek FSR, below the central copper anomaly described above by Canadian Occidental. The results again confirmed the presence of very high copper values and extended the anomaly to the south, with up to 4,640 ppm Cu and 20 ppm Mo. Most samples were over 500 ppm Cu.

2015 & 2016 – The Property was staked by Chris Paul, Gerald Carlson, Mike Blady and John Chapman (“Owners”). The Owners conducted geological and geochemical exploration work on the Property (Paul and Carlson, 2016), confirming the Shearer anomaly and discovering a boulder of high grade, porphyry style disseminated copper float that assayed 2.56% Cu.

2017 – The Property was optioned to Bruce and Patricia Bried (“Bried”), who completed additional prospecting and soil sampling (Bried and Chapman, 2018), confirming and expanding the central Copper Zone soil anomaly.

GEOLOGICAL SETTING

The regional geological framework is prominently marked by a major break along the Fraser River the Fraser River – Straight Creek fault system. The fault system represents a suture-like zone between two accreted terranes (Cadwallader and Bridge River terranes) and has produced a zone of ductile deformation favourable for hosting mineralization. The general claim area is underlain by the Mount Lytton Complex, a major, 160-km-long intrusive complex trending northwest through central British Columbia. About 8 km to the west, the granitic rocks are in faulted contact with sediments of the Lower Cretaceous Jackass Mountain group

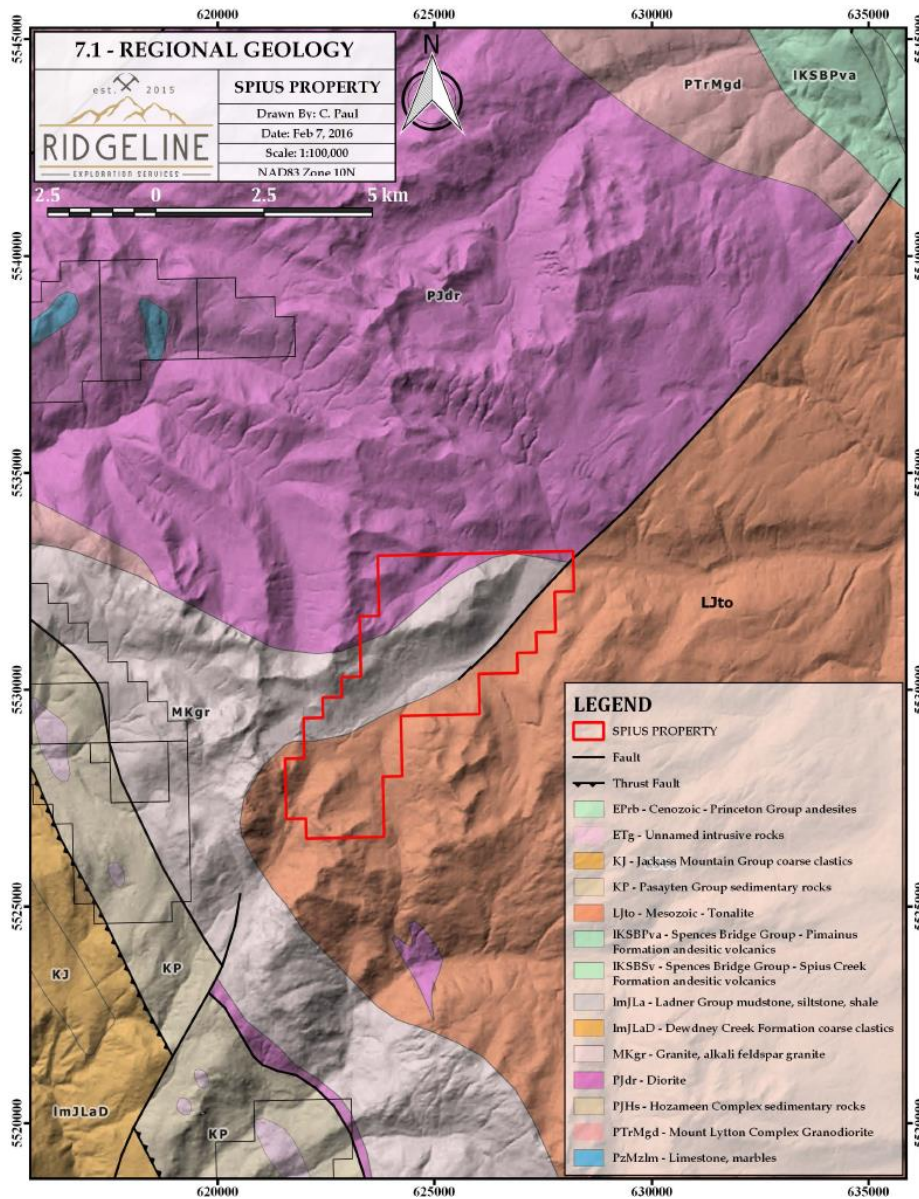


Figure 4. Spius property regional geological setting.

Property Geology

The following description of the Property geology is taken mainly from Allen (1969, 1970), Gannon (1974) and Paul and Carlson (2017). The central part of the Property is mostly underlain by a strongly foliated, coarse-grained biotite granodiorite, mapped by the G.S.C. as the Eagle Granodiorite (Gd) of Jurassic or later age (Journeay and Monger, 1984). Based on field relations, the unit is interpreted to pre-date copper mineralization on the Property. Sulphide minerals, mostly pyrite, occur as disseminations and fracture coatings throughout the Eagle Granodiorite. Small, irregular, quartz-feldspar pegmatite bodies intrude the Eagle Granodiorite in several areas, some of which are mineralized.

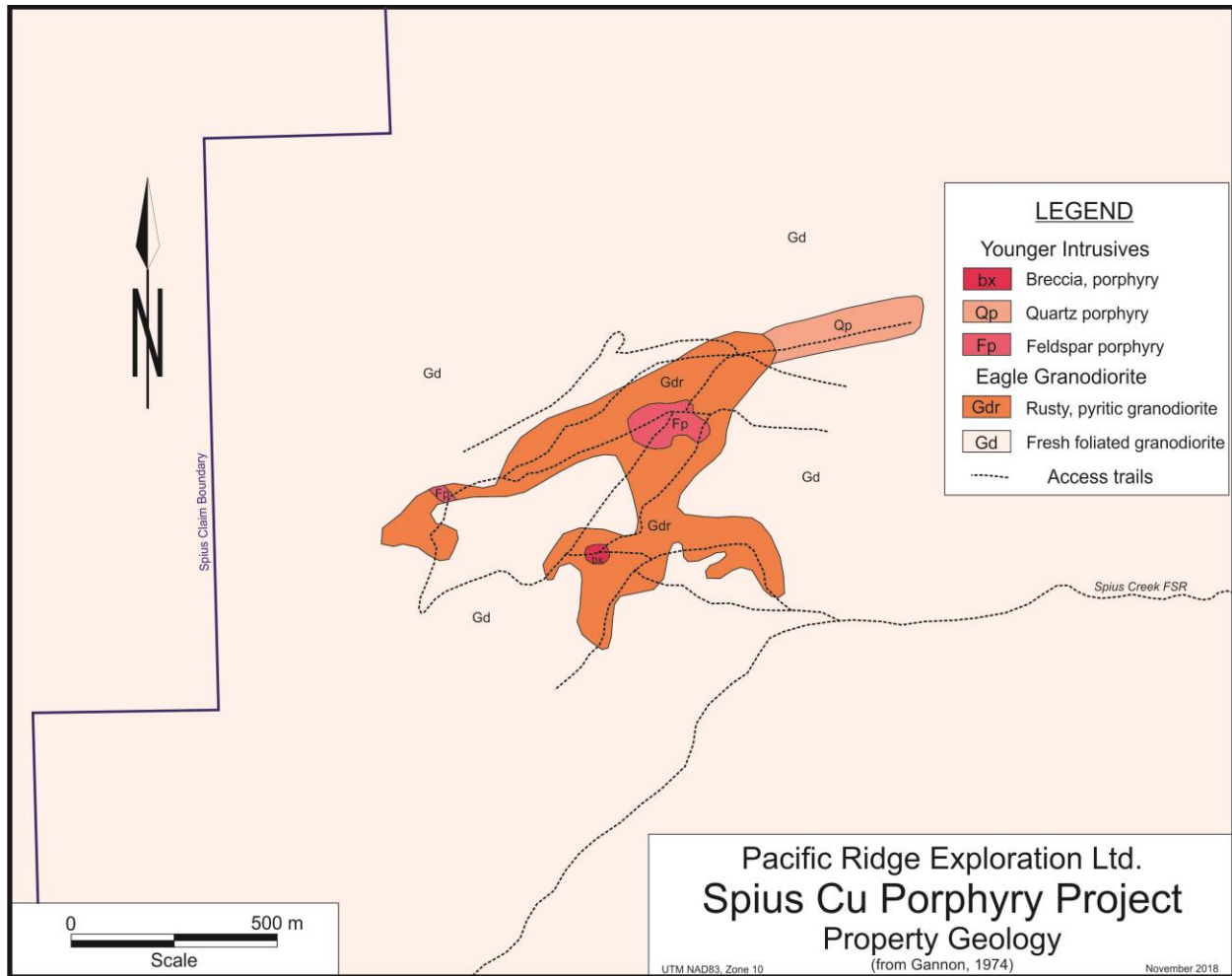


Figure 5. Spius property local geology (interpreted from Gannon, 1974).

A hornblende-feldspar dacite porphyry noted by its quartz eyes (Qp) occurs predominantly on the east side of the claim block is a (Figure 5) consisting of 15% plagioclase phenocrysts to 1 cm, 5% to 10% quartz eye phenocrysts to 0.5 cm and less than 2% euhedral pyrite in up to 2 cm across and containing inclusions of quartz-eye phenocrysts. Many of the pyrite cubes are oxidized to produce vugs and resulting in a slight gossanous colour to the outcrops. It is not known whether the pyrite cubes are

porphyroblasts or phenocrysts. Although they are not associated with fractures or veins, the former possibility seems to be more likely due to their euhedral and poikilitic character. The rock is massive, very weakly jointed and altered. Quartz veins are rare in the unit and sericite was not noted. The Qp is strongly kaolinized, which may be aided by pyrite oxidation and weathering, to produce acidic ground water.

To the north and west of the claim block, pyrite and sericite concentrations decrease, grading into a barren foliated granodiorite to the north and contacting a leucocratic granodiorite with a weak foliation to the west. The central and northern granodiorite foliation trends from 160° to 200° with a dip of 70° to 90° to the west. The granodiorite to the west has a weak N-S foliation.

A quartz-feldspar porphyry plug (Fp) intrudes the Eagle Granodiorite near the upper end of the copper anomaly (Figure 7.2). The rock is dark grey, unfoliated and contains approximately 20% euhedral, kaolinized plagioclase crystals to 1 cm in diameter. An intense quartz stockwork with minor sulphide cuts the feldspar porphyry. B.Y. Kim mapped and described the area for Arrow Inter-America in 1971 and interpreted the Fp to be the locus of mineralization in the area (George, 1976). Paul (2017) disagrees with this interpretation, arguing that the unit is small, and several grab samples collected from it in 2016, including samples containing high sulfide and quartz veins returned very low copper and molybdenum concentrations. According to Brascan's 1974 work plan, the unit never reaches more than 200 ft (61 m) in thickness (Gannon, 1974). It seems unlikely that this small, barren unit is the source of the mineralized fluids capable of widespread alteration and mineralization elsewhere on the Property, however at this stage, an alternative causative intrusive has not been found. A float boulder discussed later in this report, which assayed 2.5% Cu and displays intense potassic and sericitic alteration in a unique, unfoliated intrusive lithology may be a more viable alternative, however the bedrock source of this sample has yet to be located.

Lamprophyre and felsic dykes intrude the older intrusions but are of minor importance.

Alteration and Mineralization

Pyrite is widespread throughout the altered and sheared zones on the Property. The northeasterly exposures contain coarse cubic pyrite scattered throughout highly kaolinized, but massive quartz-eye porphyry rock. The central and western outcrops exhibit finely disseminated pyrite throughout finer-grained but silicified and sericitized granitic rocks. There is one outcrop of breccia composed of coarse angular fragments of altered granodiorite and quartz feldspar porphyry, with pyrite throughout. In places chalcopyrite is associated with the pyrite, mostly noted in and near fractured rock veined with quartz-K-feldspar veins.

Molybdenite has been noted locally associated with chalcopyrite and chalcocite within quartz veins at the Gossan Zone. Malachite and azurite oxidation typically coat copper mineralized exposures.

The strongest alteration observed was at the Gossan Zone where phyllic quartz-sericite-pyrite ("QSP") alteration was observed throughout as both fine-grained sericite as well as large flakes of secondary muscovite accompanying silicification, quartz-sulfide veining, and pyrite. Oxidation of sulfides give the rocks a vuggy texture, with bright yellow and orange oxides coating all surfaces. Minor potassic alteration

was also observed at the Gossan Zone, mostly restricted to vein selvages as growths of secondary biotite as well as a pink hue around the veins indicating potassium metasomatism of feldspars.

Little outcrop is found west of the Copper Zone, however altered float rocks were found along the upper roadcuts, with both phyllic and potassic alteration. Also located in the same area was a set of Early Dark Mafic (“EDM”) veins cutting a malachite-stained and weakly k-spar altered intrusive rock. Pervasive potassium feldspar and sericite alteration also occurs within a strongly mineralized float boulder assaying 2.5% Cu, located along the upper roadcut.

2018 Exploration Program

A program of prospecting, B horizon soil sampling and an IP geophysical survey was completed during the period October 15 to 25, 2018. The soil sampling was carried out by a three-person crew of one geologist and two samplers from Ridgeline Exploration Services Inc. (“Ridgeline”) of Kelowna. Sampling was carried out along the 250 m spaced IP lines, roughly 2 km in length, on 50 m centres, resulting in the collection of 170 samples (see Figure 6). The Ridgeline crew also helped with locating and brushing out the IP survey lines.

The IP survey, for a total of 11.5 km along 250 m spaced lines, approximately 3 km in length, was completed by a six-person crew from Peter E. Walcott and Associates Ltd. (“Walcott”) of Coquitlam, B.C.

Soil Geochemical Survey

Sampling Methods and Analysis

B horizon soil samples were collected along the 250 m spaced IP survey lines on 50 m centres. Samples were collected using a Bush-Pro® shovel and were hand sorted and placed in labelled Kraft paper bags and locations marked in the field with labelled pink flagging tape. Soil sample locations are shown in Figure 6. Sample notes for each site were recorded using field-ready smartphones. GPS locations were recorded using handheld Garmin devices.

All soil samples were submitted to MS Analytical, LLC, in Vancouver, BC for preparation and analysis. Soil samples were dried and sieved to -180 micron (80 mesh). Following preparation, a 25 g aliquot of the material was digested in a hot 3:1 (HCl:HNO₃) aqua regia bath for 1 hour. Upon completion of the digestion, the resulting solution was made up to volume with deionized water and analyzed for 51 elements by both ICP-AES as well as ICP-MS for ultra-trace levels.

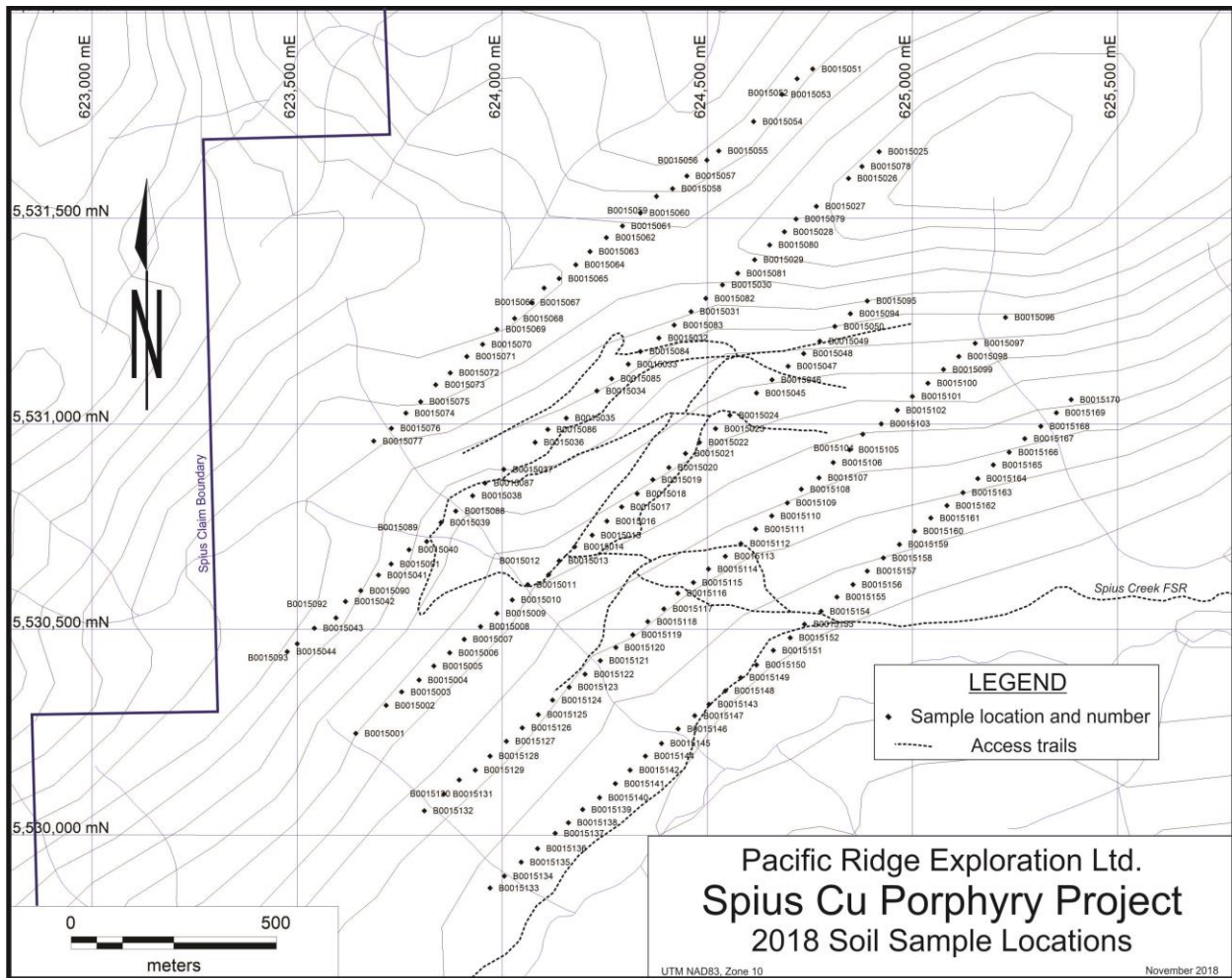


Figure 6. 2018 Spius soil sample locations and sample numbers.

Soil Survey Interpretation

Bubble plots with the results for Cu, Mo and Ag are shown below in figures 7 to 9. These results confirm observations from previous sampling (Paul and Carlson, 2017; Bried and Chapman, 2017) and expand the sampled area to the southwest and northeast. Threshold values for the bubble plots are the 98th, 95th, 90th and 70th percentiles, as shown in the table below.

Table 2. Threshold percentiles for bubble plots.

	Cu(ppm)	Mo(ppm)	Ag(ppm)
Maximum	4,334	107	1.23
98th Percentile	1,894	41	1.03
95th Percentile	1,278	21	0.80
90th Percentile	723	16	0.61
70th Percentile	192	9	0.35
Minimum	6	0	0.06

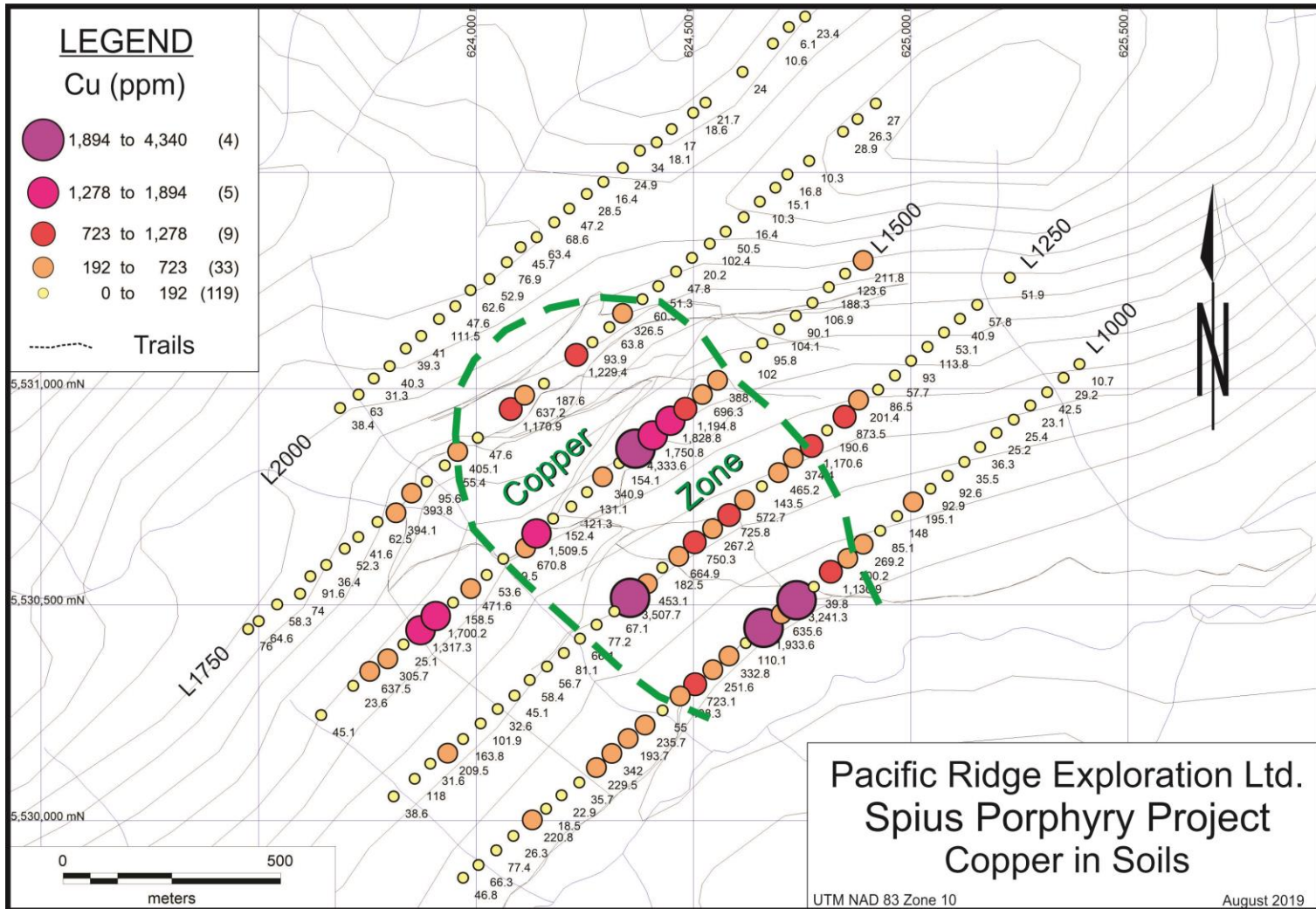


Figure 7. Spius project 2018 soil survey – copper.

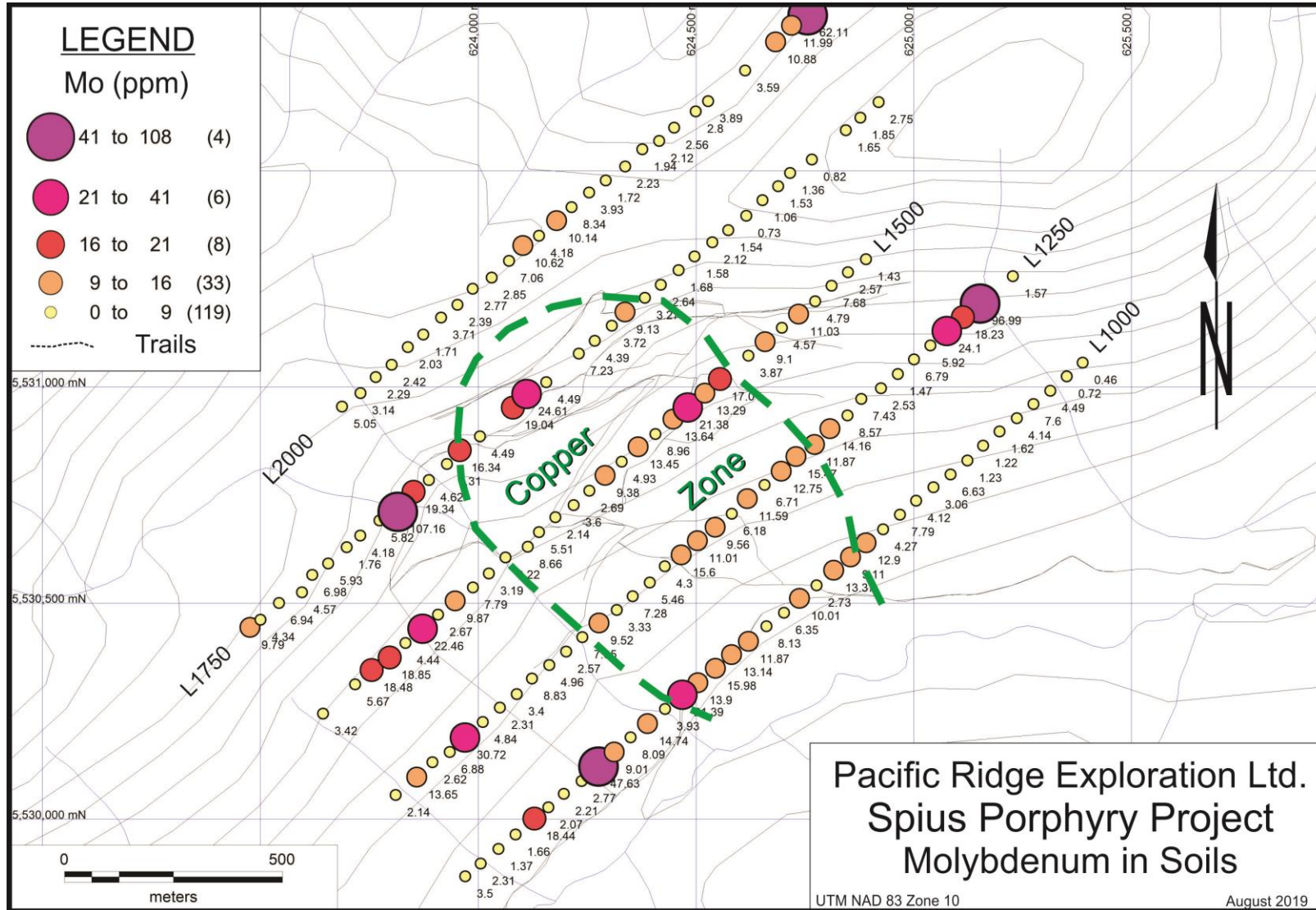


Figure 8. Spius project 2018 soil survey – molybdenum.

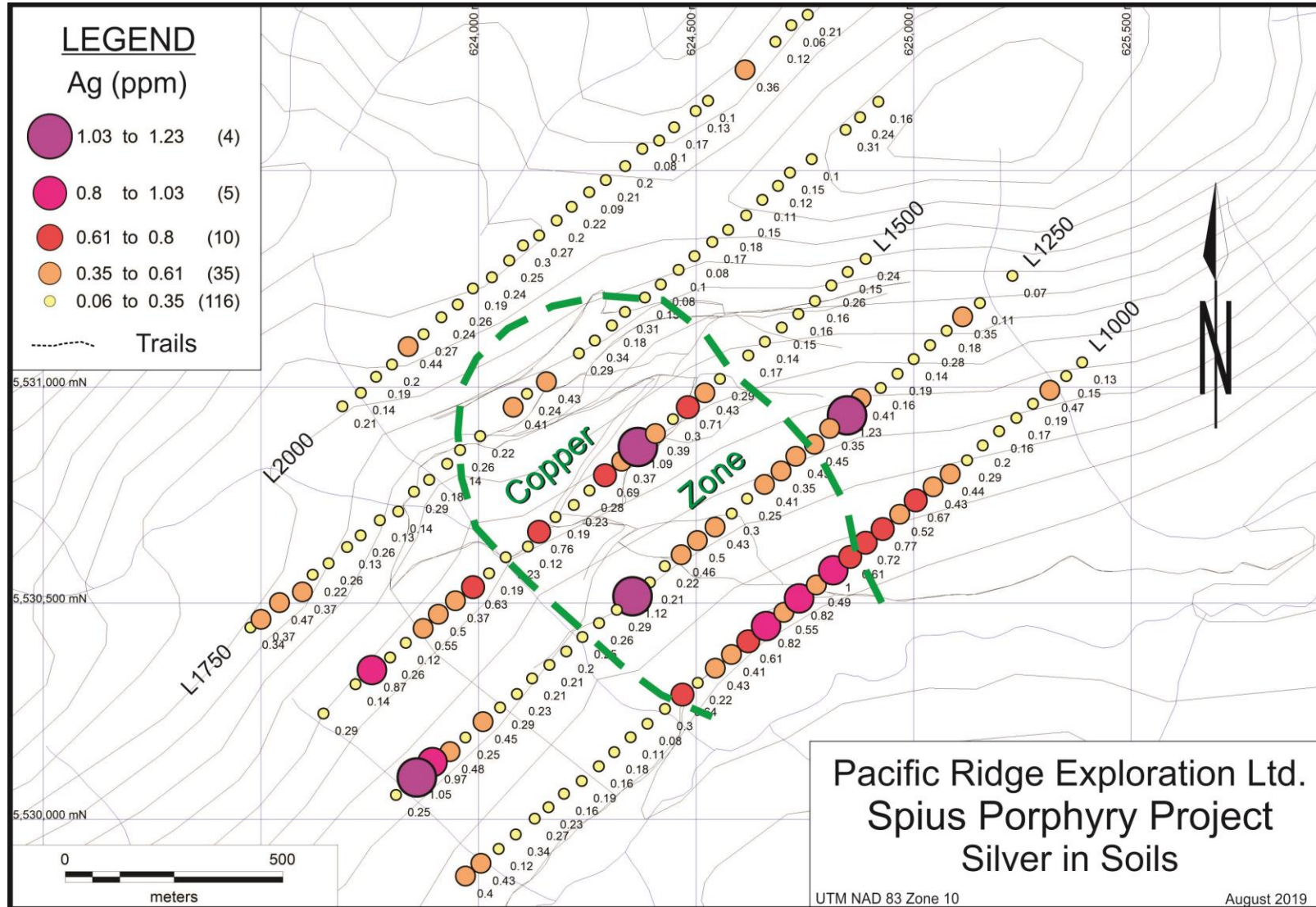


Figure 9. Spius project 2018 soil survey – silver.

The copper values confirm the Copper Zone anomaly defined by earlier workers (Paul and Carlson, 2017) and outlined with the green dashed line in the figures. The anomaly is cut off to the northwest by L2000, with no anomalous Cu values. The anomaly is also contained to the northeast and southwest, but it remains open to the southeast. The range of anomalous values is 192 ppm (70th percentile) to 4,340 ppm Cu, confirming the range of anomalous values. Although there may be some down slope dispersion of the Cu soil anomaly, the location of the anomaly relative to known pyritic gossan occurrences (pyrite halo) and to the IP chargeability anomaly (see below) suggests that it is close to the bedrock anomaly source.

Anomalous molybdenum values range from 9 ppm (70th percentile) to 108 ppm Mo. The more strongly anomalous Mo values are unexpectedly peripheral to the main Cu anomaly. Within the Copper Zone anomaly, the Mo values are less strongly anomalous. Some of the highest values are at the extreme northeast ends of lines 1250 and 2000. These appear to be unrelated to the Copper Zone anomaly and the anomaly source is unexplained.

Anomalous silver values range from 0.35 ppm (70th percentile) to 1.23 ppm Ag. The anomalous silver values are contained mainly within the Copper Zone anomaly, but there are also anomalous values at the southwest ends of lines 1000 to 1750, outside the Copper Zone anomaly.

IP Survey

A six-person crew from Walcott completed 11.5 km of induced polarization (IP) surveying on four lines between October 17th and 26th, 2018. The lines were surveyed using the pole-dipole technique with a 50 m dipole. The lines were oriented at 60° and spaced 250 m apart. The IP report by Walcott is included within this report as Appendix III, including survey specifications, IP pseudo sections, 2-D modelled inversions and chargeability and resistivity results in plan view.

The results of the survey are shown in plan view below, along with the Cu soil results. The chargeability is shown in Figure 10 and resistivity in Figure 11. Modeled cross sections of chargeability and resistivity are shown in Figures 12 to 15. These results confirm the earlier survey results, (Fominoff and Baird, 1970) providing greater detail and depth penetration. The results show a horseshoe-shaped chargeability anomaly that surround and partially overlaps the Copper Zone anomaly. This is interpreted to reflect the presence of an annular shell of disseminated sulphide mineralization, grading outwards from an inner pyrite-chalcopyrite zone to an outer pyrite shell. Peripheral zones of lower resistivity may reflect zones of more intense pyrite mineralization.

This geometry conforms with a classic porphyry copper model, with a sulphide-poor potassic core, here characterized by low chargeability and high resistivity, grading outwards through the sulphide zones, as described above, with higher chargeability and low to moderate resistivity.

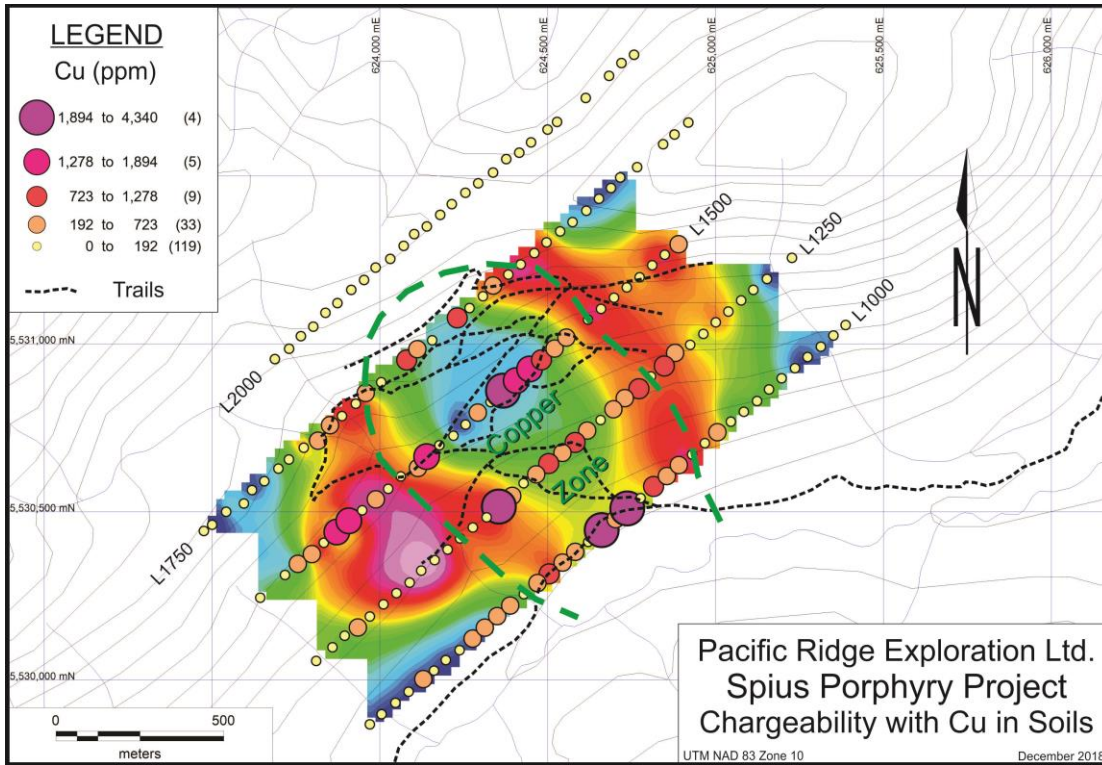


Figure 10. Plan view of modeled IP chargeability with Cu in soils.

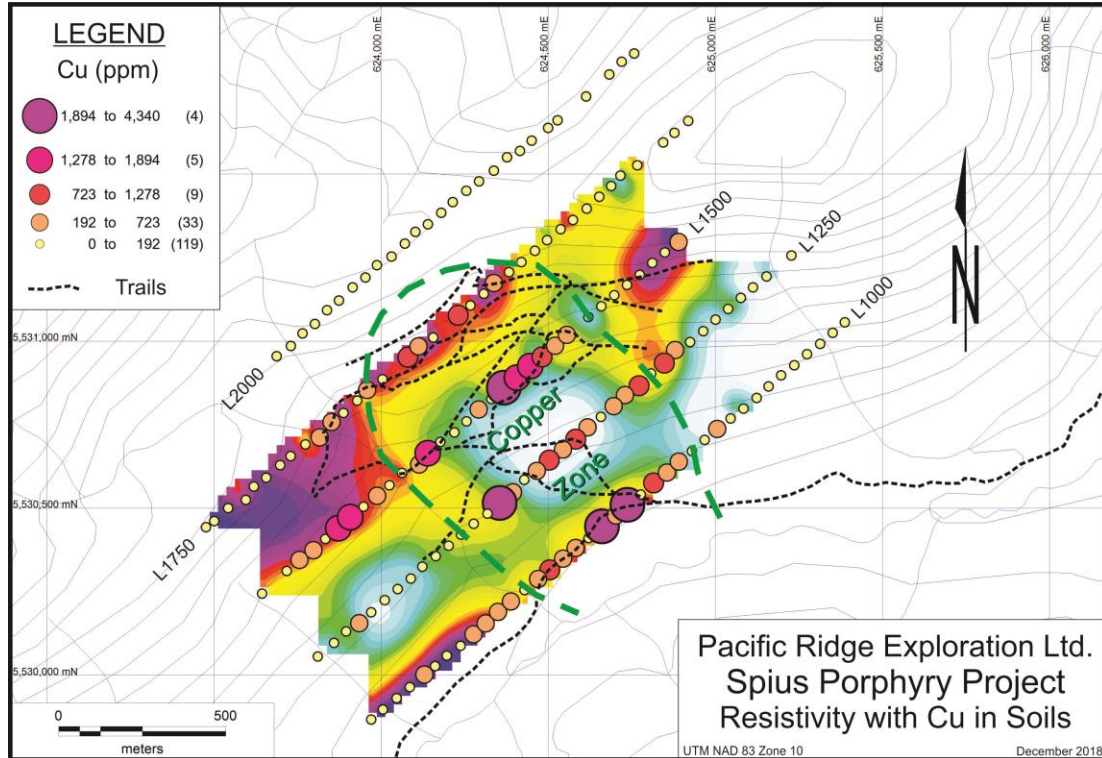


Figure 11. IP resistivity on Cu in soils.

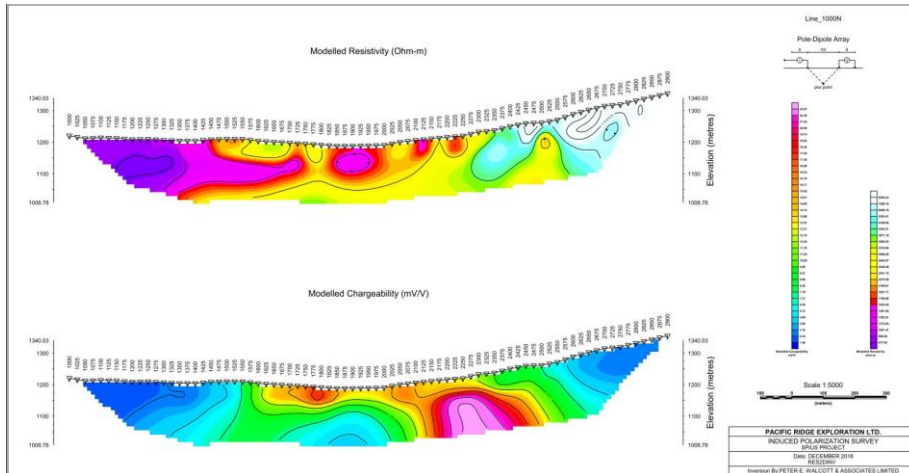


Figure 12. Modeled resistivity and chargeability, line 1000.

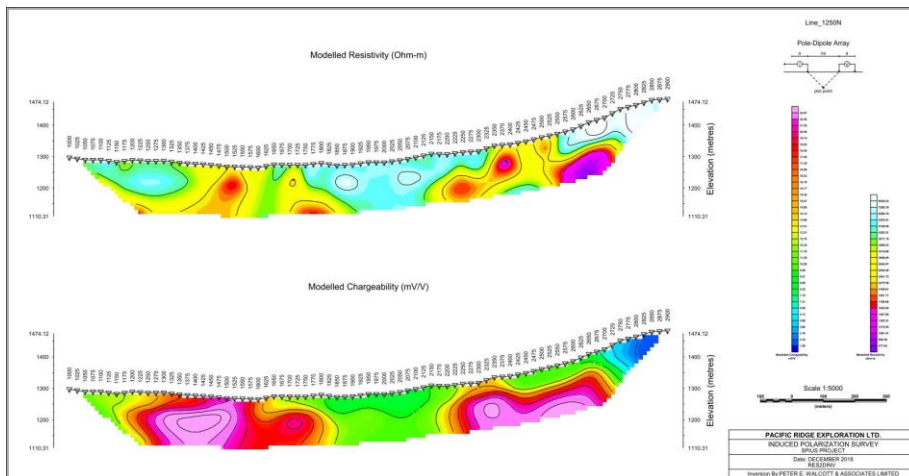


Figure 13. Modeled resistivity and chargeability, line 1250.

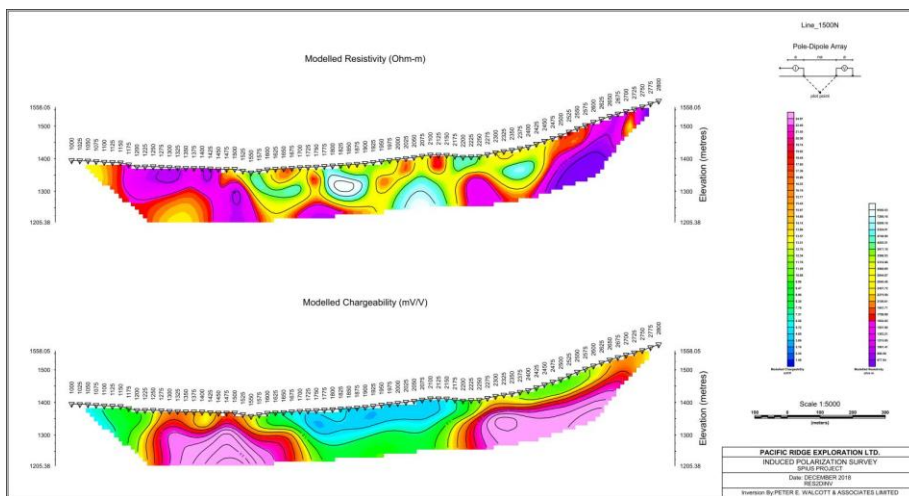


Figure 14. Modeled resistivity and chargeability, line 1500.

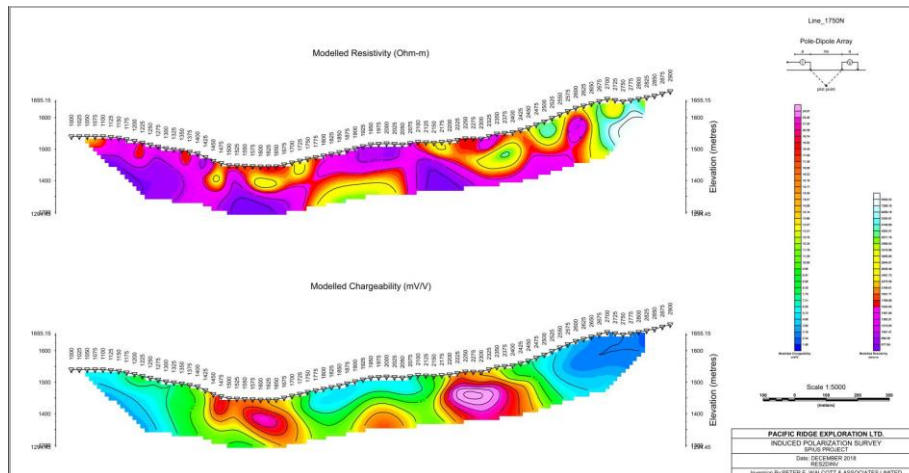


Figure 15. Modeled resistivity and chargeability, line 1750.

Of interest is a deeper, central zone of higher chargeability appearing near the centre of L1750. This is near the occurrence of high grade disseminated copper float found in 2016 as well as near the shallow drill hole that intersected good mineralization in the bottom 60 ft (61 m), with the last 8 ft (2.43 m) (191-199 ft – 58.2-60.6 m) ending in 0.42% Cu (Allen, 1969).

Discussion

The Copper Zone is interpreted to represent a porphyry copper mineralized system. Because it occurs on a steep, southeast facing slope, the zone effectively represents a diagonal slice across the porphyry system, assuming the system is still in its original upright attitude. The exposures on the southeast are over 300 m vertically below the northwestern exposures, 800 m distant.

The soil geochemistry and geophysics fit well with this interpretation, as described above. The copper zone is expected to occur as a shell between a barren core, with very low chargeability, and the highest chargeability pyrite shell. However, there are some variations. Anomalous Ag values in the southeastern or lower portion of the anomaly are not easily explained. The occurrence of strongly anomalous Mo and Ag values locally outside the Copper Zone suggests the possible influence of separate stages of hydrothermal activity, perhaps controlled by linear structures peripheral to the porphyry system.

Finally, the lack of a significant amount of porphyritic intrusive rocks observed in float or outcrop within the Copper Zone suggests that the causative intrusion is only partially unroofed. There is the possibility that greater exposure occurs at lower elevations, to the southeast, except that there is no bedrock exposed here due to glacial till and colluvium cover.

CONCLUSIONS

The Property is road accessible, located in the Nicola and New Westminster Mining Divisions, British Columbia, 40 km southwest of Merritt and 10 km east-northeast of Boston Bar. The Property is in the [2018 Assessment Report](#)

Spius Creek watershed centered at approximately 49°55'05" N and 121°16'01" W, on NTS map sheet 92H/14 and is known in MINFILE as "Gossan" (No. 092HNW027). The Property comprises six mineral claims covering 2,101 hectares.

The Property lies within the Eagle Plutonic Complex. Rocks within the Property are mainly biotite-hornblende granodiorite, with younger feldspar porphyry and quartz-feldspar porphyry intruded by felsic and lamprophyre dikes. The Copper Zone, in the central part of the Property, is defined by a strong copper B horizon soil geochemical anomaly, with associated anomalous molybdenum, with a surrounding pyritic alteration zone. Although the Copper Zone is mainly till and colluvium covered, mineralization has been observed mainly in float and occasionally in outcrop and includes secondary copper minerals, including malachite and azurite, locally chalcopyrite in stockwork veins and disseminations and minor molybdenite.

Exploration dates to the 1960's and early 1970's, when work included geological mapping, soil sampling, IP and EM geophysical surveys, road building, trenching and drilling (10 percussion drill holes and 12 diamond drill holes), all less than 100 m depth. Unfortunately, the data from most of this work was not recorded in assessment reports and has now been lost.

No further work was done until a 2012 soil survey defined a strong copper soil anomaly that extended the Copper Zone to the southeast. The current owners further defined the Copper Zone as a significant porphyry copper target with additional prospecting and sampling and discovered a piece of float with porphyry-style disseminated pyrite-chalcopyrite mineralization that ran 2.56% Cu.

Pacific Ridge optioned the Property and in October 2018 completed a program of B horizon soil sampling and an IP geophysical survey.

The soil survey confirmed and better defined the Copper Zone anomaly as outlined by earlier workers, with anomalous to strongly anomalous Cu values ranging from 192 ppm to 4,340 ppm Cu. Although there may be some down slope dispersion of the Cu soil anomaly, the location of the anomaly relative to known pyritic gossan occurrences (pyrite halo) and to the IP chargeability anomaly (see below) suggests that it is close to the bedrock anomaly source. Anomalous molybdenum values ranging from 9 ppm to 108 ppm Mo are both within and peripheral to the main Cu anomaly. Anomalous silver values occur mainly within the Copper Zone anomaly, but there are also isolated anomalous values outside the Copper Zone. The soil survey confirms the Copper Zone as a porphyry copper target and it also suggests multiple hydrothermal events with locally anomalous areas of Mo and Ag outside the Copper Zone.

The IP survey shows a horseshoe-shaped chargeability anomaly that surrounds and partially overlaps the Copper Zone anomaly. This is interpreted to reflect the presence of an annular shell of disseminated sulphide mineralization, grading outwards from an inner pyrite-chalcopyrite zone to an outer pyrite shell. Peripheral zones of lower resistivity may reflect zones of more intense pyrite mineralization. This geometry conforms with a classic porphyry copper model, with a barren potassic core, here characterized by low chargeability and high resistivity, grading outwards through the sulphide zones, as described above, with higher chargeability and high to moderate resistivity. A central zone of higher chargeability appears at depth near the centre of L1750. This is near the occurrence of high grade disseminated copper float found in 2016 as well as near the shallow drill hole that intersected good mineralization in the bottom 60 ft (61 m), with the last 8 ft (2.43 m) (191-199 ft – 58.2-60.6 m) ending in 0.42% Cu (Allen, 1969).

The Copper Zone is interpreted to be a partially unroofed porphyry system that is largely covered with glacial till and colluvium. This is supported by soil geochemical and IP geophysical surveys that define the central Copper Zone anomaly surrounded by a high chargeability zone that is interpreted to reflect a copper mineralized shell surrounded by a pyrite dominant halo. The known geology supports this interpretation. The most common lithology is the pre-mineral, foliated Eagle Granodiorite that is locally mineralized with disseminated pyrite and propylitically altered. The few occurrences of younger porphyry are altered and locally brecciated. Copper mineralization in this porphyry is associated with potassic and sericitic alteration.

RECOMMENDATIONS

A program of 1,500 m of core drilling, with 6 x 250 m drill holes, is recommended to test the Copper Zone, with an estimated budget of \$450,000.

STATEMENT OF EXPENDITURES

Table 3. 2018 Spius project expenditures.

Field Work	Description	Dates	Days	Rate	Amount
Ridgeline Exploration Services	Soil survey & supervision	October 14-24, 2018	11		\$34,916.20
Peter E. Walcott & Associates	IP Survey	October 17-26, 2018	10		\$54,409.97
Gerald G. Carlson	Property visit, supervision	October 20-22	3	\$800.00	\$2,400.00
Gerald G. Carlson	Field Expenses				\$626.00
Office Work					
Gerald G. Carlson	Project Planning		3	\$800.00	\$2,400.00
Gerald G. Carlson	Report Preparation		4	\$800.00	\$3,200.00
		Total			\$97,952.17

Details of expenditures are shown in the invoices related to this work in Appendix V.

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Paul, C.R and Carlson, G.G., 2017, 2016 Geological and Geochemical report on the Spius Property, B.C. Ministry of Energy and Mines Assessment Report 36631.

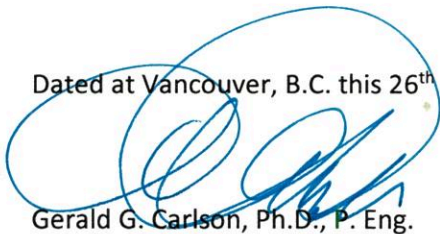
Shearer, J.T. 2012. Geochemical and Geophysical Assessment Report on the Spius Project, B.C. Ministry of Energy and Mines, Assessment Report 33913.

CERTIFICATE OF QUALIFICATIONS

I, Gerald G. Carlson, hereby certify that:

1. I am a consulting mineral exploration geologist and President and CEO of Pacific Ridge Exploration Ltd., 11th Floor – 1111 Melville St., Vancouver, B.C. V6E 3V6.
2. I am a graduate of the University of Toronto, with a degree in Geological Engineering (B.A.Sc., 1969). I have advanced degrees in Economic Geology from Michigan Technological University (M.Sc., 1974) and Dartmouth College (Ph.D., 1978). I have been involved in geological mapping, mineral exploration and the management of mineral exploration companies continuously since 1969, except between 1972 and 1978 when I was in graduate studies.
3. I am a member in good standing of Engineers and Geoscientists British Columbia, Registration No. 12513 and of Engineers Yukon, Registration No. 0198.
4. I am the author of this revised assessment report on the Spius property.
5. The report is based on a literature review, on private company reports and on the 2018 soil sampling and IP geophysical program.
6. I am a Director and Officer of Pacific Ridge Exploration Ltd. and I own shares in the company.
7. I was personally involved in the planning, execution and interpretation of the exploration program discussed in this report.

Dated at Vancouver, B.C. this 26th day of August 2019,



Gerald G. Carlson, Ph.D., P. Eng.

Appendix I
Soil Survey Sample Locations and Summary Results.

Sample No.	EastingN83Z10	NorthingN83Z10	Cu(ppm)	Mo(ppm)	Ag(ppm)
B0015001	623643	5530247	45	3.4	0.29
B0015002	623717	5530315	24	5.7	0.14
B0015003	623755	5530348	638	18.5	0.87
B0015004	623797	5530377	306	18.9	0.26
B0015005	623833	5530411	25	4.4	0.12
B0015006	623872	5530443	1,317	22.5	0.55
B0015007	623907	5530476	1,700	2.7	0.50
B0015008	623947	5530507	159	9.9	0.37
B0015009	623987	5530539	472	7.8	0.63
B0015010	624024	5530572	54	3.2	0.19
B0015011	624062	5530609	50	3.2	0.23
B0015012	624113	5530633	671	8.7	0.12
B0015013	624139	5530667	1,510	5.5	0.76
B0015014	624177	5530701	152	2.1	0.19
B0015015	624219	5530729	121	3.6	0.23
B0015016	624255	5530763	131	2.7	0.28
B0015017	624291	5530798	341	9.4	0.69
B0015018	624329	5530830	154	4.9	0.37
B0015019	624367	5530864	4,334	13.5	1.09
B0015020	624406	5530894	1,751	9.0	0.39
B0015021	624447	5530928	1,829	13.6	0.30
B0015022	624481	5530955	1,195	21.4	0.71
B0015023	624520	5530988	696	13.3	0.43
B0015024	624555	5531021	388	17.0	0.29
B0015025	624919	5531662	27	2.8	0.16
B0015026	624844	5531597	29	1.7	0.31
B0015027	624766	5531529	10	0.8	0.10
B0015028	624688	5531467	15	1.5	0.12
B0015029	624615	5531399	16	0.7	0.15
B0015030	624537	5531338	102	2.1	0.17
B0015031	624460	5531273	48	1.7	0.10
B0015032	624382	5531209	60	3.3	0.15
B0015033	624307	5531145	64	3.7	0.18
B0015034	624231	5531080	1,229	7.2	0.29
B0015035	624156	5531014	188	4.5	0.43
B0015036	624080	5530955	1,171	19.0	0.41
B0015037	624004	5530889	48	4.5	0.22
B0015038	623928	5530825	155	6.3	0.14
B0015039	623851	5530760	394	19.3	0.29
B0015040	623773	5530694	63	5.8	0.13
B0015041	623698	5530632	52	1.8	0.13
B0015042	623618	5530568	92	7.0	0.22
B0015043	623542	5530503	58	6.9	0.47
B0015044	623476	5530446	76	9.8	0.34
B0015045	624620	5531075	102	3.9	0.17
B0015046	624658	5531107	96	9.1	0.14

Sample No.	EastingN83Z10	NorthingN83Z10	Cu(ppm)	Mo(ppm)	Ag(ppm)
B0015047	624697	5531140	104	4.6	0.15
B0015048	624735	5531171	90	11.0	0.16
B0015049	624774	5531201	107	4.8	0.16
B0015050	624811	5531237	188	7.7	0.26
B0015051	624757	5531863	23	62.1	0.21
B0015052	624719	5531839	6	12.0	0.06
B0015053	624682	5531801	11	10.9	0.12
B0015054	624613	5531735	24	3.6	0.36
B0015055	624528	5531664	22	3.9	0.10
B0015056	624499	5531641	19	2.8	0.13
B0015057	624450	5531603	17	2.6	0.17
B0015058	624415	5531572	18	2.1	0.10
B0015059	624376	5531553	34	1.9	0.08
B0015060	624337	5531513	25	2.2	0.20
B0015061	624293	5531481	16	1.7	0.21
B0015062	624254	5531453	29	3.9	0.09
B0015063	624214	5531419	47	8.3	0.22
B0015064	624179	5531387	69	10.1	0.20
B0015065	624139	5531353	63	4.2	0.27
B0015066	624102	5531330	46	10.6	0.30
B0015067	624071	5531295	77	7.1	0.25
B0015068	624030	5531256	53	2.9	0.24
B0015069	623987	5531230	63	2.8	0.19
B0015070	623952	5531193	48	2.4	0.26
B0015071	623914	5531164	112	3.7	0.24
B0015072	623873	5531124	41	1.7	0.27
B0015073	623838	5531095	39	2.0	0.44
B0015074	623765	5531026	31	2.3	0.19
B0015075	623801	5531054	40	2.4	0.20
B0015076	623730	5530989	63	3.1	0.14
B0015077	623687	5530958	38	5.1	0.21
B0015078	624877	5531626	26	1.9	0.24
B0015079	624716	5531498	17	1.4	0.15
B0015080	624652	5531435	10	1.1	0.11
B0015081	624574	5531366	51	1.5	0.18
B0015082	624496	5531305	20	1.6	0.08
B0015083	624419	5531240	51	2.6	0.08
B0015084	624337	5531176	327	9.1	0.31
B0015085	624267	5531110	94	4.4	0.34
B0015086	624111	5530986	637	24.6	0.24
B0015087	623958	5530856	405	16.3	0.26
B0015088	623887	5530788	96	4.6	0.18
B0015089	623816	5530714	394	107.2	0.14
B0015090	623655	5530594	36	5.9	0.26
B0015091	623729	5530659	42	4.2	0.26
B0015092	623595	5530528	74	4.6	0.37

Sample No.	EastingN83Z10	NorthingN83Z10	Cu(ppm)	Mo(ppm)	Ag(ppm)
B0015093	623500	5530465	65	4.3	0.37
B0015094	624849	5531268	124	2.6	0.15
B0015095	624890	5531299	212	1.4	0.24
B0015096	625227	5531259	52	1.6	0.07
B0015097	625153	5531196	58	97.0	0.11
B0015098	625113	5531164	41	18.2	0.35
B0015099	625076	5531132	53	24.1	0.18
B0015100	625038	5531099	114	5.9	0.28
B0015101	625000	5531067	93	6.8	0.14
B0015102	624963	5531033	58	1.5	0.19
B0015103	624924	5531000	87	2.5	0.16
B0015104	624879	5530975	201	7.4	0.41
B0015105	624847	5530937	874	8.6	1.23
B0015106	624807	5530906	191	14.2	0.35
B0015107	624772	5530869	1,171	11.9	0.45
B0015108	624729	5530841	374	15.5	0.49
B0015109	624695	5530808	465	12.8	0.35
B0015110	624657	5530776	144	6.7	0.41
B0015111	624618	5530744	573	11.6	0.25
B0015112	624582	5530709	726	6.2	0.30
B0015113	624544	5530678	267	9.6	0.43
B0015114	624503	5530647	750	11.0	0.50
B0015115	624466	5530614	665	15.6	0.46
B0015116	624428	5530588	183	4.3	0.22
B0015117	624394	5530550	453	5.5	0.21
B0015118	624355	5530519	3,508	7.3	1.12
B0015119	624318	5530487	67	3.3	0.29
B0015120	624277	5530456	77	9.5	0.26
B0015121	624239	5530424	66	7.9	0.25
B0015122	624202	5530391	81	2.6	0.20
B0015123	624163	5530360	57	5.0	0.21
B0015124	624123	5530328	58	8.8	0.21
B0015125	624088	5530293	45	3.4	0.23
B0015126	624049	5530261	33	2.3	0.29
B0015127	624010	5530228	102	4.8	0.45
B0015128	623970	5530192	164	30.7	0.25
B0015129	623934	5530158	210	6.9	0.48
B0015130	623895	5530134	32	2.6	0.97
B0015131	623858	5530100	118	13.7	1.05
B0015132	623810	5530059	39	2.1	0.25
B0015133	623970	5529871	47	3.5	0.40
B0015134	624005	5529900	66	2.3	0.43
B0015135	624046	5529934	77	1.4	0.12
B0015136	624086	5529967	26	1.7	0.34
B0015137	624129	5530004	221	18.4	0.27
B0015138	624161	5530030	19	2.1	0.23

Sample No.	EastingN83Z10	NorthingN83Z10	Cu(ppm)	Mo(ppm)	Ag(ppm)
B0015139	624196	5530062	23	2.2	0.16
B0015140	624237	5530091	36	2.8	0.19
B0015141	624276	5530125	230	47.6	0.16
B0015142	624312	5530158	342	9.0	0.18
B0015143	624504	5530318	723	13.9	0.22
B0015144	624349	5530192	194	8.1	0.11
B0015145	624388	5530223	236	14.7	0.08
B0015146	624429	5530258	55	3.9	0.30
B0015147	624469	5530290	498	21.4	0.64
B0015148	624544	5530351	252	16.0	0.43
B0015149	624581	5530383	333	13.1	0.41
B0015150	624620	5530414	110	11.9	0.61
B0015151	624661	5530449	1,934	8.1	0.82
B0015152	624702	5530480	636	6.4	0.55
B0015153	624737	5530513	3,241	10.0	0.82
B0015154	624777	5530544	40	2.7	0.49
B0015155	624816	5530579	1,131	13.4	1.00
B0015156	624855	5530609	200	9.1	0.61
B0015157	624890	5530642	269	12.9	0.72
B0015158	624929	5530674	85	4.3	0.77
B0015159	624968	5530707	148	7.8	0.52
B0015160	625005	5530739	195	4.1	0.67
B0015161	625045	5530771	93	3.1	0.43
B0015162	625084	5530801	93	6.6	0.44
B0015163	625123	5530833	36	1.2	0.29
B0015164	625159	5530867	36	1.2	0.20
B0015165	625197	5530900	25	1.6	0.16
B0015166	625236	5530931	25	4.1	0.17
B0015167	625274	5530964	23	7.6	0.19
B0015168	625313	5530994	43	4.5	0.47
B0015169	625351	5531027	29	0.7	0.15
B0015170	625387	5531059	11	0.5	0.13

Appendix II
Soil Survey Analytical Certificates.



MS Analytical

An A2 Global Company

MS Analytical
Unit 1, 20120 102nd Avenue
Langley, BC V1M 4B4
Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS: YVR1811059

Project Name: Spivs
Job Received Date: 10-Oct-2018
Job Report Date: 06-Dec-2018
Number of Samples: 170
Report Version: Final

COMMENTS:

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-757	Dry, Screen to 80 mesh, discard plus fraction

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
IMS-116	Multi-Element (39 elements), 0.5g, 1:1 Aqua Regia, ICP-AES/MS, Ultra Trace Level

Signature:

Yvette Hsi, BSc.
Laboratory Manager
MS Analytical



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 Langley, BC V1M 4B4
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To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	IMS-116 Ag ppm	IMS-116 Al %	IMS-116 As ppm	IMS-116 Au ppm	IMS-116 B ppm	IMS-116 Ba ppm	IMS-116 Bi ppm	IMS-116 Ca %	IMS-116 Cd ppm	IMS-116 Co ppm	IMS-116 Cr ppm
B0015001	Soil	0.46	LOR	0.29	1.45	4.1	0.001	11	75	0.45	0.20	1.07	5.8	15
B0015002	Soil	0.39		0.14	0.77	1.9	<0.001	<10	71	0.36	0.07	0.41	2.8	10
B0015003	Soil	0.36		0.87	1.62	4.5	<0.001	<10	94	0.34	0.17	1.40	41.6	9
B0015004	Soil	0.37		0.26	1.03	3.9	<0.001	<10	84	0.33	0.10	0.61	6.3	17
B0015005	Soil	0.47		0.12	0.79	3.8	<0.001	<10	36	0.31	0.08	0.12	3.0	12
B0015006	Soil	0.49		0.55	1.53	6.0	0.001	<10	146	0.30	0.36	0.78	14.9	18
B0015007	Soil	0.55		0.50	1.35	2.4	0.001	<10	192	0.23	0.31	0.36	3.9	12
B0015008	Soil	0.49		0.37	1.54	6.4	<0.001	<10	64	0.40	0.07	0.62	4.5	15
B0015009	Soil	0.45		0.63	1.42	7.4	<0.001	<10	114	0.39	0.11	0.42	4.1	15
B0015010	Soil	0.43		0.19	1.29	8.2	0.002	<10	41	0.28	0.07	0.07	3.6	14
B0015011	Soil	0.46		0.23	2.08	2.1	<0.001	<10	72	0.25	0.19	0.13	6.7	21
B0015012	Soil	0.64		0.12	1.35	18.8	0.001	<10	186	0.17	0.36	0.11	9.3	36
B0015013	Soil	0.53		0.76	2.08	42.6	<0.001	<10	169	0.22	0.20	0.26	8.8	20
B0015014	Soil	0.49		0.19	1.99	8.4	<0.001	<10	93	0.20	0.10	0.07	5.0	18
B0015015	Soil	0.48		0.23	2.47	10.6	0.002	<10	63	0.25	0.11	0.12	5.1	19
B0015016	Soil	0.53		0.28	1.81	7.7	<0.001	<10	65	0.28	0.07	0.18	4.4	10
B0015017	Soil	0.42		0.69	1.37	13.2	<0.001	<10	233	0.38	0.26	0.78	6.9	17
B0015018	Soil	0.50		0.37	1.26	4.3	<0.001	<10	94	0.26	0.12	0.21	4.6	16
B0015019	Soil	0.53		1.09	2.03	14.9	0.001	11	341	0.20	0.56	1.20	11.3	23
B0015020	Soil	0.48		0.39	2.33	15.2	0.018	<10	197	0.23	0.21	0.26	10.0	22
B0015021	Soil	0.44		0.30	1.70	40.5	0.003	<10	186	0.34	0.27	0.55	10.8	17
B0015022	Soil	0.51		0.71	2.06	156.7	0.002	<10	221	0.73	0.18	0.36	15.0	28
B0015023	Soil	0.43		0.43	2.29	19.0	0.001	<10	157	0.38	0.18	0.34	7.8	24
B0015024	Soil	0.54		0.29	1.64	11.6	0.001	<10	140	0.38	0.23	0.21	8.2	14
B0015025	Soil	0.38		0.16	2.09	4.7	<0.001	12	43	2.28	0.12	0.44	6.5	25

Please refer to the cover page for comments regarding this certificate.



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To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	IMS-116 Ag ppm	IMS-116 Al %	IMS-116 As ppm	IMS-116 Au ppm	IMS-116 B ppm	IMS-116 Ba ppm	IMS-116 Bi ppm	IMS-116 Ca %	IMS-116 Cd ppm	IMS-116 Co ppm	IMS-116 Cr ppm
B0015026	Soil	0.41	LOR	0.31	1.53	2.8	<0.001	<10	37	0.73	0.04	0.29	2.5	11
B0015027	Soil	0.44		0.10	0.93	4.2	<0.001	<10	43	0.41	0.06	0.09	3.3	9
B0015028	Soil	0.43		0.12	1.60	7.6	<0.001	<10	44	0.51	0.09	0.13	5.0	20
B0015029	Soil	0.44		0.15	1.04	2.4	<0.001	<10	99	0.36	0.12	0.12	4.0	8
B0015030	Soil	0.57		0.17	1.78	6.6	0.001	11	93	1.30	0.24	0.38	10.0	22
B0015031	Soil	0.45		0.10	1.42	5.8	<0.001	<10	170	0.68	0.21	0.17	9.8	17
B0015032	Soil	0.53		0.15	1.94	4.3	<0.001	10	103	0.46	0.14	0.19	8.5	22
B0015033	Soil	0.40		0.18	1.42	3.3	<0.001	<10	88	0.44	0.15	0.16	7.8	21
B0015034	Soil	0.38		0.29	1.76	3.6	0.001	<10	107	0.31	0.25	0.33	6.1	22
B0015035	Soil	0.57		0.43	2.45	50.6	<0.001	<10	111	0.26	0.11	0.22	8.0	17
B0015036	Soil	0.46		0.41	1.34	2.5	<0.001	<10	127	0.34	0.29	0.45	10.6	18
B0015037	Soil	0.53		0.22	1.65	2.1	<0.001	<10	85	0.33	0.07	0.26	6.4	20
B0015038	Soil	0.49		0.14	1.43	5.0	<0.001	<10	66	0.35	0.12	0.19	8.2	27
B0015039	Soil	0.58		0.29	2.62	12.4	0.001	<10	72	0.41	0.16	0.11	10.7	23
B0015040	Soil	0.45		0.13	2.25	3.7	<0.001	<10	61	0.30	0.08	0.10	4.0	18
B0015041	Soil	0.46		0.13	1.71	1.9	<0.001	<10	67	0.21	0.16	0.10	6.0	15
B0015042	Soil	0.40		0.22	2.51	2.9	<0.001	<10	50	0.41	0.11	0.17	5.0	22
B0015043	Soil	0.36		0.47	1.94	7.1	<0.001	<10	56	0.79	0.06	0.13	2.8	13
B0015044	Soil	0.32		0.34	2.30	6.3	0.001	<10	144	0.83	0.06	0.16	7.7	17
B0015045	Soil	0.36		0.17	1.68	4.9	<0.001	<10	211	0.48	0.33	0.28	13.4	25
B0015046	Soil	0.54		0.14	1.66	8.9	<0.001	<10	358	0.61	0.36	0.20	10.4	16
B0015047	Soil	0.54		0.15	1.50	10.6	<0.001	<10	163	0.59	0.11	0.10	8.7	13
B0015048	Soil	0.44		0.16	1.32	21.3	<0.001	<10	346	0.79	0.32	0.18	14.9	12
B0015049	Soil	0.38		0.16	1.26	36.6	<0.001	<10	678	0.75	0.52	0.31	15.4	9
B0015050	Soil	0.41		0.26	1.37	31.9	<0.001	<10	459	1.04	0.56	0.34	16.5	10

***Please refer to the cover page for comments regarding this certificate. ***



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To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	IMS-116 Ag ppm	IMS-116 Al %	IMS-116 As ppm	IMS-116 Au ppm	IMS-116 B ppm	IMS-116 Ba ppm	IMS-116 Bi ppm	IMS-116 Ca %	IMS-116 Cd ppm	IMS-116 Co ppm	IMS-116 Cr ppm
B0015051	Soil	0.27	LOR	0.21	1.79	4.7	<0.001	<10	142	0.47	0.21	0.28	8.0	15
B0015052	Soil	0.35		0.06	0.60	1.1	<0.001	<10	43	1.06	0.05	<0.05	1.3	5
B0015053	Soil	0.35		0.12	1.02	1.7	<0.001	<10	46	0.89	0.08	0.12	2.7	12
B0015054	Soil	0.28		0.36	1.46	2.2	0.008	<10	81	0.36	0.16	0.41	6.2	17
B0015055	Soil	0.35		0.10	1.51	2.3	<0.001	<10	125	0.43	0.21	0.84	9.9	16
B0015056	Soil	0.30		0.13	1.08	3.2	<0.001	<10	56	0.44	0.11	0.18	4.0	13
B0015057	Soil	0.42		0.17	1.13	3.4	<0.001	11	58	0.44	0.19	0.47	6.0	21
B0015058	Soil	0.35		0.10	1.18	1.4	<0.001	<10	63	0.58	0.08	0.34	8.6	12
B0015059	Soil	0.36		0.08	1.49	4.9	<0.001	12	54	1.47	0.10	0.16	5.8	43
B0015060	Soil	0.41		0.20	1.44	1.9	<0.001	<10	18	0.43	0.05	0.28	4.8	10
B0015061	Soil	0.25		0.21	2.29	2.9	<0.001	<10	33	0.38	0.09	0.13	3.6	18
B0015062	Soil	0.37		0.09	2.11	3.7	<0.001	10	41	0.30	0.11	0.11	4.1	20
B0015063	Soil	0.26		0.22	2.38	4.1	<0.001	<10	58	0.43	0.09	0.13	3.6	23
B0015064	Soil	0.35		0.20	1.89	3.9	<0.001	<10	65	0.56	0.07	0.11	3.9	14
B0015065	Soil	0.29		0.27	2.73	3.6	<0.001	<10	98	0.43	0.09	0.11	4.8	18
B0015066	Soil	0.31		0.30	1.96	4.6	<0.001	<10	49	0.59	0.07	0.14	3.1	25
B0015067	Soil	0.32		0.25	2.39	3.9	<0.001	<10	114	0.39	0.14	0.14	6.2	34
B0015068	Soil	0.32		0.24	2.16	3.1	<0.001	<10	104	0.47	0.10	0.16	5.8	26
B0015069	Soil	0.35		0.19	2.40	4.2	<0.001	<10	83	0.45	0.11	0.10	6.2	20
B0015070	Soil	0.36		0.26	1.90	4.1	<0.001	<10	77	0.39	0.10	0.20	4.7	23
B0015071	Soil	0.35		0.24	2.77	3.8	<0.001	<10	152	0.58	0.09	0.21	10.9	46
B0015072	Soil	0.33		0.27	1.52	3.2	<0.001	<10	63	0.33	0.09	0.21	6.2	45
B0015073	Soil	0.30		0.44	1.59	3.0	<0.001	<10	55	0.37	0.07	0.19	4.9	37
B0015074	Soil	0.46		0.19	1.61	2.1	<0.001	<10	106	0.34	0.15	0.13	7.7	21
B0015075	Soil	0.45		0.20	1.89	2.9	<0.001	<10	92	0.35	0.11	0.23	8.4	37

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To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	IMS-116 Ag ppm	IMS-116 Al %	IMS-116 As ppm	IMS-116 Au ppm	IMS-116 B ppm	IMS-116 Ba ppm	IMS-116 Bi ppm	IMS-116 Ca %	IMS-116 Cd ppm	IMS-116 Co ppm	IMS-116 Cr ppm
B0015076	Soil	0.34	LOR	0.14	1.87	2.9	<0.001	<10	180	0.37	0.25	0.21	9.4	22
B0015077	Soil	0.34		0.21	1.76	2.7	0.002	<10	113	0.39	0.14	0.19	7.9	25
B0015078	Soil	0.27		0.24	1.63	3.2	0.001	<10	34	0.38	0.06	0.17	2.6	11
B0015079	Soil	0.29		0.15	2.10	5.1	0.002	<10	51	0.34	0.06	0.08	3.7	12
B0015080	Soil	0.34		0.11	0.70	4.5	<0.001	<10	31	0.65	0.07	0.10	2.5	12
B0015081	Soil	0.38		0.18	1.99	6.5	<0.001	<10	88	0.80	0.12	0.11	8.8	17
B0015082	Soil	0.26		0.08	0.88	4.1	<0.001	<10	236	0.48	0.21	0.28	10.1	15
B0015083	Soil	0.32		0.08	1.76	4.9	<0.001	<10	93	0.39	0.19	0.16	9.7	26
B0015084	Soil	0.39		0.31	2.69	10.0	0.001	<10	100	0.43	0.24	0.27	11.7	25
B0015085	Soil	0.23		0.34	1.75	2.9	<0.001	<10	44	0.27	0.11	0.07	4.6	23
B0015086	Soil	0.34		0.24	1.36	3.0	<0.001	<10	136	0.41	0.13	0.45	5.2	16
B0015087	Soil	0.34		0.26	2.13	4.0	0.001	<10	72	0.33	0.17	0.16	10.3	24
B0015088	Soil	0.47		0.18	2.29	2.7	0.001	<10	111	0.29	0.23	0.14	10.6	24
B0015089	Soil	0.37		0.14	1.04	97.0	0.003	<10	112	0.96	0.03	0.21	12.9	2
B0015090	Soil	0.30		0.26	1.40	3.3	<0.001	<10	56	0.55	0.09	0.09	2.8	14
B0015091	Soil	0.36		0.26	1.25	1.8	<0.001	<10	72	0.36	0.12	0.19	5.1	17
B0015092	Soil	0.34		0.37	1.77	4.0	<0.001	<10	46	0.56	0.07	0.12	3.5	19
B0015093	Soil	0.35		0.37	1.88	4.0	<0.001	<10	72	0.79	0.09	0.19	4.0	18
B0015094	Soil	0.37		0.15	1.21	36.5	<0.001	<10	329	1.04	0.26	0.13	20.0	8
B0015095	Soil	0.34		0.24	1.22	10.8	<0.001	<10	349	1.44	0.51	0.26	13.2	8
B0015096	Soil	0.43		0.07	2.46	8.7	<0.001	<10	274	1.59	0.24	0.32	9.4	11
B0015097	Soil	0.45		0.11	1.62	8.4	<0.001	<10	235	1.41	0.12	0.63	7.3	11
B0015098	Soil	0.30		0.35	2.29	4.2	<0.001	<10	351	0.56	0.44	1.20	9.3	13
B0015099	Soil	0.40		0.18	2.14	2.7	<0.001	<10	298	0.40	0.35	0.71	12.1	10
B0015100	Soil	0.40		0.28	2.40	4.1	0.004	<10	263	0.57	0.29	0.47	11.5	17

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Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	IMS-116 Ag ppm	IMS-116 Al %	IMS-116 As ppm	IMS-116 Au ppm	IMS-116 B ppm	IMS-116 Ba ppm	IMS-116 Bi ppm	IMS-116 Ca %	IMS-116 Cd ppm	IMS-116 Co ppm	IMS-116 Cr ppm
B0015101	Soil	0.39	LOR	0.14	1.76	4.7	<0.001	<10	229	0.46	0.30	0.45	7.4	14
B0015102	Soil	0.43		0.19	0.95	5.6	<0.001	<10	201	0.52	0.14	0.17	4.9	9
B0015103	Soil	0.38		0.16	2.13	4.4	<0.001	<10	207	0.61	0.27	0.20	11.6	25
B0015104	Soil	0.45		0.41	1.57	4.9	<0.001	<10	336	0.64	0.53	0.72	13.0	12
B0015105	Soil	0.33		1.23	2.04	11.4	0.001	<10	326	0.46	0.82	1.40	13.0	14
B0015106	Soil	0.46		0.35	1.70	4.9	<0.001	<10	140	0.39	0.25	0.63	6.7	13
B0015107	Soil	0.38		0.45	1.13	2.2	<0.001	<10	193	0.27	0.52	0.98	10.2	9
B0015108	Soil	0.40		0.49	1.37	2.5	<0.001	<10	282	0.29	0.55	0.59	11.8	18
B0015109	Soil	0.47		0.35	1.63	5.3	0.001	<10	192	0.31	0.42	0.49	7.4	15
B0015110	Soil	0.45		0.41	2.11	5.0	<0.001	<10	159	0.32	0.19	0.15	6.7	22
B0015111	Soil	0.47		0.25	1.65	16.1	<0.001	<10	173	0.41	0.21	0.33	7.2	16
B0015112	Soil	0.49		0.30	2.18	4.0	<0.001	<10	161	0.30	0.25	0.36	8.9	22
B0015113	Soil	0.44		0.43	2.28	5.8	<0.001	<10	160	0.28	0.36	0.53	10.1	26
B0015114	Soil	0.53		0.50	2.05	6.2	<0.001	<10	210	0.30	0.28	0.64	11.7	20
B0015115	Soil	0.31		0.46	2.01	3.3	<0.001	<10	166	0.25	0.37	0.20	12.0	19
B0015116	Soil	0.45		0.22	1.62	3.4	<0.001	<10	132	0.24	0.20	0.22	6.3	17
B0015117	Soil	0.47		0.21	2.45	6.6	0.002	14	150	0.18	0.36	0.17	9.0	23
B0015118	Soil	0.45		1.12	1.94	5.1	0.002	<10	354	0.24	0.83	0.81	15.8	19
B0015119	Soil	0.39		0.29	2.11	3.3	<0.001	<10	123	0.19	0.29	0.27	8.5	25
B0015120	Soil	0.51		0.26	1.22	2.2	<0.001	<10	155	0.26	0.28	0.42	7.0	16
B0015121	Soil	0.42		0.25	1.71	4.5	<0.001	<10	135	0.32	0.13	0.27	3.5	15
B0015122	Soil	0.51		0.20	2.52	3.9	<0.001	<10	59	0.22	0.11	0.13	7.5	20
B0015123	Soil	0.50		0.21	1.50	5.0	<0.001	<10	69	0.27	0.11	0.22	4.4	14
B0015124	Soil	0.42		0.21	0.93	6.6	<0.001	<10	86	0.40	0.13	0.29	4.0	13
B0015125	Soil	0.50		0.23	1.70	3.8	<0.001	<10	79	0.25	0.12	0.26	4.7	17

***Please refer to the cover page for comments regarding this certificate. ***



MS Analytical
 Unit 1, 20120 102nd Avenue
 Langley, BC V1M 4B4
 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
---------------------------------	-------------------

Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	IMS-116 Ag ppm	IMS-116 Al %	IMS-116 As ppm	IMS-116 Au ppm	IMS-116 B ppm	IMS-116 Ba ppm	IMS-116 Bi ppm	IMS-116 Ca %	IMS-116 Cd ppm	IMS-116 Co ppm	IMS-116 Cr ppm
		0.01	LOR	0.05	0.01	0.2	0.001	10	10	0.05	0.01	0.05	0.1	1
B0015126	Soil	0.37		0.29	1.27	2.8	<0.001	<10	147	0.31	0.19	0.76	5.5	17
B0015127	Soil	0.43		0.45	2.46	3.2	<0.001	<10	154	0.26	0.21	0.45	10.9	19
B0015128	Soil	0.34		0.25	0.87	6.7	0.002	<10	99	0.34	0.40	0.51	3.7	10
B0015129	Soil	0.30		0.48	1.40	1.4	<0.001	<10	75	0.16	0.21	0.92	1.7	9
B0015130	Soil	0.41		0.97	1.04	1.7	<0.001	<10	80	0.27	0.23	0.58	5.6	9
B0015131	Soil	0.35		1.05	1.52	4.0	<0.001	13	102	0.33	0.23	1.02	34.7	11
B0015132	Soil	0.37		0.25	1.12	2.4	<0.001	<10	94	0.30	0.16	1.03	5.5	16
B0015133	Soil	0.42		0.40	2.14	1.6	<0.001	<10	78	0.16	0.21	0.38	5.3	24
B0015134	Soil	0.30		0.43	1.75	1.7	0.001	<10	103	0.14	0.32	0.35	4.7	20
B0015135	Soil	0.45		0.12	2.22	2.2	<0.001	<10	88	0.09	0.25	0.29	18.9	177
B0015136	Soil	0.34		0.34	2.24	2.3	<0.001	<10	78	0.13	0.24	0.24	6.7	27
B0015137	Soil	0.40		0.27	1.50	3.0	<0.001	<10	86	0.21	0.27	0.69	6.5	13
B0015138	Soil	0.40		0.23	1.93	2.2	<0.001	<10	71	0.17	0.21	0.32	6.8	25
B0015139	Soil	0.43		0.16	1.23	1.3	<0.001	<10	47	0.20	0.11	0.26	2.3	15
B0015140	Soil	0.43		0.19	3.18	2.7	<0.001	<10	91	0.21	0.22	0.36	8.0	29
B0015141	Soil	0.50		0.16	1.63	12.7	<0.001	10	137	0.42	0.41	0.24	12.6	25
B0015142	Soil	0.45		0.18	1.95	7.1	<0.001	<10	194	0.51	0.32	0.38	15.2	24
B0015143	Soil	0.41		0.22	2.31	3.8	0.002	<10	383	0.22	0.69	0.32	13.2	30
B0015144	Soil	0.46		0.11	1.60	5.5	<0.001	<10	152	0.46	0.24	0.22	12.6	24
B0015145	Soil	0.41		0.08	1.34	9.2	<0.001	<10	166	0.50	0.45	0.27	11.2	21
B0015146	Soil	0.46		0.30	1.75	2.4	<0.001	<10	110	0.24	0.19	0.29	8.0	20
B0015147	Soil	0.36		0.64	2.34	2.9	<0.001	<10	199	0.20	0.38	0.65	14.3	24
B0015148	Soil	0.33		0.43	1.70	3.0	0.002	<10	179	0.38	0.28	0.32	11.3	17
B0015149	Soil	0.52		0.41	2.38	5.4	<0.001	<10	183	0.29	0.32	0.30	13.9	27
B0015150	Soil	0.42		0.61	2.28	2.6	0.001	<10	111	0.18	0.39	0.23	9.3	26

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 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	IMS-116 Ag ppm	IMS-116 Al %	IMS-116 As ppm	IMS-116 Au ppm	IMS-116 B ppm	IMS-116 Ba ppm	IMS-116 Bi ppm	IMS-116 Ca %	IMS-116 Cd ppm	IMS-116 Co ppm	IMS-116 Cr ppm
		0.01	LOR	0.05	0.01	0.2	0.001	10	10	0.05	0.01	0.05	0.1	1
B0015151	Soil	0.50		0.82	2.01	8.2	0.001	<10	269	0.35	0.43	1.19	12.5	18
B0015152	Soil	0.35		0.55	1.65	4.2	0.001	<10	218	0.28	0.33	0.70	10.7	21
B0015153	Soil	0.46		0.82	2.67	6.7	0.002	<10	294	0.25	0.70	0.63	17.4	32
B0015154	Soil	0.38		0.49	2.19	3.0	<0.001	<10	200	0.38	0.26	0.44	11.7	26
B0015155	Soil	0.44		1.00	2.27	4.3	0.002	<10	335	0.33	0.66	0.89	19.6	20
B0015156	Soil	0.42		0.61	2.66	2.3	0.003	<10	235	0.20	0.57	0.39	17.2	33
B0015157	Soil	0.33		0.72	1.58	2.5	0.002	<10	139	0.28	0.28	0.69	11.8	14
B0015158	Soil	0.36		0.77	1.66	2.6	<0.001	<10	133	0.35	0.26	0.52	12.6	23
B0015159	Soil	0.44		0.52	1.96	2.6	0.001	<10	182	0.31	0.39	0.57	8.9	22
B0015160	Soil	0.41		0.67	2.48	2.4	0.001	<10	140	0.25	0.29	0.70	15.4	30
B0015161	Soil	0.36		0.43	2.37	2.2	<0.001	<10	124	0.23	0.30	0.56	19.3	31
B0015162	Soil	0.43		0.44	1.95	2.2	<0.001	<10	146	0.43	0.24	1.02	16.9	17
B0015163	Soil	0.42		0.29	2.44	2.5	0.002	<10	245	0.25	0.44	0.52	11.7	23
B0015164	Soil	0.45		0.20	2.71	2.1	<0.001	<10	368	0.21	0.53	0.93	12.0	27
B0015165	Soil	0.48		0.16	2.24	2.8	<0.001	11	200	0.38	0.22	0.58	10.4	17
B0015166	Soil	0.48		0.17	2.32	2.5	<0.001	<10	224	0.28	0.33	0.19	9.9	25
B0015167	Soil	0.38		0.19	2.10	3.4	<0.001	<10	242	0.34	0.30	0.23	10.5	18
B0015168	Soil	0.41		0.47	1.84	2.9	0.002	<10	158	0.32	0.17	0.75	8.4	14
B0015169	Soil	0.48		0.15	2.37	2.3	<0.001	<10	395	0.18	0.51	0.24	11.6	18
B0015170	Soil	0.42		0.13	1.71	1.9	0.003	<10	268	0.21	0.19	0.39	9.0	13

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An A2 Global Company

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 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS: YVR1811059

Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	IMS-116 Ag ppm	IMS-116 Al %	IMS-116 As ppm	IMS-116 Au ppm	IMS-116 B ppm	IMS-116 Ba ppm	IMS-116 Bi ppm	IMS-116 Ca %	IMS-116 Cd ppm	IMS-116 Co ppm	IMS-116 Cr ppm
DUP B0015075		0.01	LOR	0.19	1.88	3.0	<0.001	<10	91	0.35	0.11	0.22	8.3	38
DUP B0015119				0.29	2.17	3.2	<0.001	<10	126	0.19	0.29	0.28	8.7	26
DUP B0015152				0.55	1.63	4.1	0.001	<10	218	0.29	0.32	0.66	10.4	21
DUP B0015169				0.16	2.47	2.3	0.001	<10	415	0.19	0.53	0.26	11.6	19
STD BLANK				<0.05	<0.01	<0.2	<0.001	<10	<10	<0.05	<0.01	<0.05	<0.1	<1
STD BLANK				<0.05	<0.01	<0.2	<0.001	<10	<10	<0.05	<0.01	<0.05	<0.1	<1
STD BLANK				<0.05	<0.01	<0.2	<0.001	<10	<10	<0.05	<0.01	<0.05	<0.1	<1
STD OREAS 601				50.07	0.84	311.0	0.762	<10	190	22.00	1.06	7.53	4.7	43
STD OREAS 24b				0.07	3.22	7.2	0.001	<10	148	0.70	0.46	<0.05	15.3	111
STD OREAS 24b				0.06	3.32	8.3	0.001	<10	148	0.68	0.46	<0.05	15.7	112
STD OREAS 601				49.93	0.78	309.4	0.780	<10	352	21.93	1.04	7.75	4.6	39

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Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 Cu ppm	IMS-116 Fe %	IMS-116 Ga ppm	IMS-116 Hg ppm	IMS-116 K %	IMS-116 La ppm	IMS-116 Mg %	IMS-116 Mn ppm	IMS-116 Mo ppm	IMS-116 Na %	IMS-116 Ni ppm	IMS-116 P ppm	IMS-116 Pb ppm	IMS-116 Re ppm
B0015001	45.1	2.73	5.4	0.05	0.05	3.5	0.33	260	3.42	<0.01	7.7	399	6.2	<0.005
B0015002	23.6	2.28	5.7	0.03	0.03	3.1	0.12	144	5.67	<0.01	4.4	341	8.5	<0.005
B0015003	637.5	2.55	8.3	0.06	0.05	25.0	0.18	1053	18.48	<0.01	6.4	542	8.1	<0.005
B0015004	305.7	3.22	6.5	0.04	0.04	5.2	0.23	184	18.85	<0.01	8.4	282	7.9	<0.005
B0015005	25.1	2.25	6.7	0.04	0.03	3.0	0.14	103	4.44	<0.01	4.8	380	7.2	<0.005
B0015006	1317.3	3.20	7.7	0.03	0.04	17.0	0.33	1243	22.46	0.02	10.1	496	8.8	0.016
B0015007	1700.2	0.79	4.8	0.04	0.05	15.7	0.30	252	2.67	0.02	6.2	585	3.8	0.018
B0015008	158.5	3.85	8.5	0.06	0.03	6.2	0.17	114	9.87	<0.01	5.3	315	7.5	<0.005
B0015009	471.6	3.29	8.5	0.04	0.03	8.8	0.13	128	7.79	0.02	5.3	327	7.8	0.006
B0015010	53.6	2.63	7.3	0.04	0.03	3.1	0.17	135	3.19	0.01	4.7	701	6.7	<0.005
B0015011	49.5	2.66	5.6	0.04	0.05	3.1	0.53	249	3.22	0.02	9.3	438	4.0	<0.005
B0015012	670.8	2.69	4.4	0.01	0.09	6.7	0.54	462	8.66	0.04	15.9	861	3.5	<0.005
B0015013	1509.5	2.98	7.5	0.03	0.04	12.1	0.42	433	5.51	0.04	13.4	652	6.5	<0.005
B0015014	152.4	2.72	7.1	0.05	0.04	4.3	0.34	297	2.14	0.02	9.0	521	7.9	<0.005
B0015015	121.3	4.02	10.3	0.07	0.04	3.7	0.35	210	3.60	0.02	7.5	784	9.5	<0.005
B0015016	131.1	2.62	7.0	0.05	0.03	3.9	0.19	191	2.69	0.02	4.6	403	6.2	<0.005
B0015017	340.9	4.09	9.4	0.07	0.05	5.3	0.28	327	9.38	0.04	8.2	447	12.3	<0.005
B0015018	154.1	3.24	8.5	0.03	0.05	4.3	0.29	171	4.93	0.02	6.4	387	8.5	<0.005
B0015019	4333.6	3.43	9.5	0.03	0.06	28.9	0.61	1226	13.45	0.06	17.2	859	7.4	0.012
B0015020	1750.8	4.24	9.3	0.03	0.06	6.2	0.77	418	8.96	0.04	13.8	776	8.1	<0.005
B0015021	1828.8	3.53	7.5	0.05	0.05	9.0	0.49	716	13.64	0.04	12.5	645	8.8	<0.005
B0015022	1194.8	5.01	7.6	0.03	0.08	6.8	0.37	744	21.38	0.04	18.8	1009	19.6	<0.005
B0015023	696.3	3.41	9.1	0.05	0.06	7.5	0.52	552	13.29	0.03	10.0	882	8.8	<0.005
B0015024	388.1	3.61	6.9	0.04	0.10	6.4	0.47	549	17.01	0.03	7.7	972	6.5	<0.005
B0015025	27.0	5.05	12.3	0.09	0.05	4.6	0.43	401	2.75	0.01	9.5	1342	6.8	<0.005

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To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 Cu ppm	IMS-116 Fe %	IMS-116 Ga ppm	IMS-116 Hg ppm	IMS-116 K %	IMS-116 La ppm	IMS-116 Mg %	IMS-116 Mn ppm	IMS-116 Mo ppm	IMS-116 Na %	IMS-116 Ni ppm	IMS-116 P ppm	IMS-116 Pb ppm	IMS-116 Re ppm
B0015026	28.9	3.11	11.7	0.06	0.03	3.3	0.13	155	1.65	0.02	4.7	1390	13.8	<0.005
B0015027	10.3	2.52	8.6	0.05	0.06	2.6	0.21	182	0.82	0.01	4.0	598	11.0	<0.005
B0015028	15.1	5.32	14.7	0.06	0.05	3.2	0.35	262	1.53	0.01	6.7	1126	11.3	<0.005
B0015029	16.4	1.82	6.6	0.09	0.09	2.8	0.29	1172	0.73	0.02	4.2	882	13.2	<0.005
B0015030	102.4	3.34	5.5	0.02	0.12	6.9	0.65	582	2.12	0.02	10.3	949	5.7	<0.005
B0015031	47.8	3.39	6.3	0.03	0.10	3.4	0.47	1553	1.68	0.03	7.8	1289	7.1	<0.005
B0015032	60.3	3.56	6.3	0.05	0.08	3.6	0.62	575	3.27	0.02	10.1	855	5.8	<0.005
B0015033	63.8	3.20	7.1	0.05	0.04	2.6	0.38	607	3.72	0.02	8.9	584	7.5	<0.005
B0015034	1229.4	3.15	6.5	0.04	0.05	3.3	0.37	268	7.23	0.02	10.2	505	6.3	<0.005
B0015035	187.6	3.89	7.1	0.06	0.07	2.7	0.36	278	4.49	0.02	8.1	601	6.5	<0.005
B0015036	1170.9	3.10	6.8	0.03	0.05	8.1	0.34	438	19.04	0.03	9.0	491	6.7	0.007
B0015037	47.6	3.00	6.9	0.06	0.04	3.0	0.31	331	4.49	0.02	7.8	480	7.0	<0.005
B0015038	155.4	2.74	4.8	0.03	0.08	7.5	0.43	471	6.31	0.02	13.5	627	6.2	<0.005
B0015039	393.8	3.98	5.4	0.04	0.08	5.2	0.53	376	19.34	0.02	12.3	772	9.6	<0.005
B0015040	62.5	3.05	7.3	0.06	0.04	3.3	0.26	159	5.82	0.02	6.3	686	7.7	<0.005
B0015041	52.3	2.26	4.3	0.05	0.05	2.9	0.38	219	1.76	0.02	7.8	502	4.6	<0.005
B0015042	91.6	3.11	6.1	0.06	0.04	3.8	0.37	210	6.98	0.02	8.0	721	6.6	<0.005
B0015043	58.3	2.92	6.8	0.07	0.04	3.2	0.22	185	6.94	0.01	4.8	548	13.6	<0.005
B0015044	76.0	4.39	9.1	0.04	0.10	3.5	0.63	454	9.79	0.03	8.9	621	16.1	<0.005
B0015045	102.0	3.95	7.1	0.04	0.09	3.9	0.60	1073	3.87	0.04	13.0	678	8.5	<0.005
B0015046	95.8	3.55	7.0	0.03	0.09	6.3	0.44	1167	9.10	0.06	11.0	851	14.4	<0.005
B0015047	104.1	3.26	5.9	0.06	0.07	3.8	0.32	614	4.57	0.03	9.1	721	11.3	<0.005
B0015048	90.1	3.89	5.7	0.04	0.11	6.3	0.25	1912	11.03	0.05	9.6	1076	14.1	<0.005
B0015049	106.9	3.51	5.1	0.06	0.12	5.5	0.18	3211	4.79	0.10	9.4	1188	14.5	<0.005
B0015050	188.3	3.94	5.0	0.04	0.14	10.7	0.24	2200	7.68	0.07	13.2	1442	17.7	<0.005

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To: **Ridgeline Exploration Services**
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Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 Cu ppm	IMS-116 Fe %	IMS-116 Ga ppm	IMS-116 Hg ppm	IMS-116 K %	IMS-116 La ppm	IMS-116 Mg %	IMS-116 Mn ppm	IMS-116 Mo ppm	IMS-116 Na %	IMS-116 Ni ppm	IMS-116 P ppm	IMS-116 Pb ppm	IMS-116 Re ppm
B0015051	23.4	4.08	7.7	0.13	0.12	4.5	0.40	1505	62.11	0.03	6.1	788	18.8	<0.005
B0015052	6.1	0.92	6.4	0.04	0.03	2.8	0.09	148	11.99	0.01	1.8	367	12.8	<0.005
B0015053	10.6	2.19	8.9	0.06	0.03	2.8	0.17	404	10.88	0.01	3.7	580	12.8	<0.005
B0015054	24.0	3.34	7.5	0.08	0.04	3.1	0.40	223	3.59	0.02	7.9	428	13.3	<0.005
B0015055	21.7	3.45	7.9	0.06	0.08	6.6	0.48	1829	3.89	0.03	6.3	743	8.3	<0.005
B0015056	18.6	3.46	9.8	0.07	0.07	2.0	0.39	326	2.80	0.02	4.1	732	7.6	<0.005
B0015057	17.0	3.21	7.6	0.04	0.09	2.4	0.48	358	2.56	0.02	7.9	698	7.2	<0.005
B0015058	18.1	2.89	6.9	0.06	0.21	1.7	0.56	2651	2.12	0.02	5.1	894	6.5	<0.005
B0015059	34.0	4.11	6.5	0.07	0.05	1.4	0.66	447	1.94	0.02	14.0	1595	4.6	<0.005
B0015060	24.9	2.27	6.9	0.05	0.06	5.6	0.36	1047	2.23	<0.01	3.3	665	5.1	<0.005
B0015061	16.4	4.14	11.6	0.09	0.03	3.2	0.37	151	1.72	0.01	5.3	564	7.5	<0.005
B0015062	28.5	4.26	10.0	0.07	0.09	4.2	0.50	223	3.93	0.01	5.4	2712	5.8	<0.005
B0015063	47.2	4.82	10.9	0.11	0.05	3.7	0.43	239	8.34	0.01	6.4	1109	8.6	<0.005
B0015064	68.6	4.38	10.7	0.11	0.06	3.3	0.37	255	10.14	0.02	5.5	826	10.1	<0.005
B0015065	63.4	3.71	9.2	0.08	0.05	3.6	0.59	308	4.18	0.02	7.4	656	8.5	<0.005
B0015066	45.7	4.67	10.6	0.10	0.04	3.3	0.44	280	10.62	0.01	6.7	807	9.7	<0.005
B0015067	76.9	3.56	8.4	0.13	0.07	2.8	0.76	359	7.06	0.03	12.5	557	8.7	<0.005
B0015068	52.9	3.48	7.8	0.08	0.06	2.8	0.61	392	2.85	0.02	9.8	849	8.8	<0.005
B0015069	62.6	3.42	7.5	0.07	0.07	3.4	0.60	363	2.77	0.02	8.8	718	8.4	<0.005
B0015070	47.6	3.30	7.7	0.10	0.06	3.0	0.51	276	2.39	0.02	9.9	654	7.1	<0.005
B0015071	111.5	5.09	11.8	0.06	0.10	3.3	1.24	939	3.71	0.03	19.2	1046	13.7	<0.005
B0015072	41.0	3.27	8.1	0.07	0.05	2.4	0.54	393	1.71	0.02	17.8	948	8.7	<0.005
B0015073	39.3	3.12	8.1	0.06	0.04	2.8	0.43	294	2.03	0.02	13.2	892	8.8	<0.005
B0015074	31.3	2.85	6.4	0.05	0.07	3.2	0.56	473	2.29	0.03	10.7	454	5.7	<0.005
B0015075	40.3	3.28	7.7	0.06	0.06	3.2	0.60	563	2.42	0.02	16.3	621	7.6	<0.005

***Please refer to the cover page for comments regarding this certificate. ***



MS Analytical
 Unit 1, 20120 102nd Avenue
 Langley, BC V1M 4B4
 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
---------------------------------	-------------------

Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 Cu ppm	IMS-116 Fe %	IMS-116 Ga ppm	IMS-116 Hg ppm	IMS-116 K %	IMS-116 La ppm	IMS-116 Mg %	IMS-116 Mn ppm	IMS-116 Mo ppm	IMS-116 Na %	IMS-116 Ni ppm	IMS-116 P ppm	IMS-116 Pb ppm	IMS-116 Re ppm
B0015076	63.0	2.94	5.9	0.03	0.18	4.8	0.77	438	3.14	0.04	11.6	533	4.9	<0.005
B0015077	38.4	3.47	8.1	0.06	0.07	3.4	0.55	411	5.05	0.02	11.7	478	8.3	<0.005
B0015078	26.3	1.93	9.0	0.08	0.05	3.6	0.22	190	1.85	0.01	5.2	1160	12.2	<0.005
B0015079	16.8	3.43	10.1	0.09	0.07	3.1	0.30	237	1.36	0.01	5.5	1010	8.5	<0.005
B0015080	10.3	2.20	8.8	0.07	0.03	2.4	0.13	104	1.06	0.01	4.5	369	10.9	<0.005
B0015081	50.5	3.88	8.6	0.03	0.13	3.1	0.71	684	1.54	0.02	9.0	693	6.3	<0.005
B0015082	20.2	2.64	6.7	0.04	0.10	3.0	0.33	2702	1.58	0.04	8.6	665	12.1	<0.005
B0015083	51.3	3.57	6.8	0.04	0.06	2.8	0.67	519	2.64	0.02	13.3	717	6.0	<0.005
B0015084	326.5	4.45	7.8	0.08	0.10	3.8	0.78	594	9.13	0.03	13.0	1040	5.8	<0.005
B0015085	93.9	3.17	7.5	0.06	0.03	2.6	0.29	218	4.39	0.01	8.3	692	6.8	<0.005
B0015086	637.2	3.29	8.9	0.05	0.05	4.0	0.34	338	24.61	0.03	7.0	487	8.3	<0.005
B0015087	405.1	3.49	5.4	0.04	0.08	3.6	0.55	527	16.34	0.02	11.4	932	5.1	<0.005
B0015088	95.6	2.91	5.5	0.03	0.11	4.7	0.72	433	4.62	0.03	13.5	603	4.4	<0.005
B0015089	394.1	6.67	3.0	0.04	0.10	10.1	0.09	2241	107.16	0.02	2.0	1400	34.2	<0.005
B0015090	36.4	3.28	8.1	0.05	0.04	3.3	0.25	172	5.93	0.01	5.3	548	8.5	<0.005
B0015091	41.6	2.87	7.1	0.03	0.05	2.8	0.33	355	4.18	0.02	7.2	507	5.5	<0.005
B0015092	74.0	3.72	8.3	0.06	0.04	3.6	0.33	205	4.57	0.01	6.6	502	7.5	<0.005
B0015093	64.6	3.01	7.4	0.06	0.04	3.3	0.38	329	4.34	0.02	7.5	546	16.3	<0.005
B0015094	123.6	5.95	4.6	0.07	0.08	4.2	0.14	1768	2.57	0.05	12.4	1148	12.9	<0.005
B0015095	211.8	4.35	5.1	0.05	0.14	5.7	0.31	1616	1.43	0.05	10.1	1319	14.4	<0.005
B0015096	51.9	4.25	9.9	0.03	0.18	3.7	0.76	717	1.57	0.05	8.7	2346	9.1	<0.005
B0015097	57.8	4.20	8.5	0.03	0.11	3.8	0.35	627	96.99	0.04	6.5	689	13.0	<0.005
B0015098	40.9	3.33	9.0	0.05	0.09	11.3	0.46	984	18.23	0.06	8.3	1021	11.9	<0.005
B0015099	53.1	3.88	9.0	0.04	0.12	6.3	0.75	1502	24.10	0.05	7.4	1176	9.2	<0.005
B0015100	113.8	4.25	9.0	0.03	0.17	5.7	0.83	813	5.92	0.05	11.7	871	10.0	<0.005

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MS Analytical
 Unit 1, 20120 102nd Avenue
 Langley, BC V1M 4B4
 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 Cu ppm	IMS-116 Fe %	IMS-116 Ga ppm	IMS-116 Hg ppm	IMS-116 K %	IMS-116 La ppm	IMS-116 Mg %	IMS-116 Mn ppm	IMS-116 Mo ppm	IMS-116 Na %	IMS-116 Ni ppm	IMS-116 P ppm	IMS-116 Pb ppm	IMS-116 Re ppm
B0015101	93.0	3.59	7.8	0.04	0.09	3.3	0.64	541	6.79	0.04	9.1	880	10.8	<0.005
B0015102	57.7	2.68	6.2	0.02	0.06	2.3	0.26	371	1.47	0.03	6.1	564	9.4	<0.005
B0015103	86.5	4.08	8.4	0.03	0.07	3.2	0.87	763	2.53	0.04	15.6	611	11.1	<0.005
B0015104	201.4	3.10	6.6	0.04	0.07	15.2	0.42	1374	7.43	0.06	9.1	1172	10.8	<0.005
B0015105	873.5	4.26	7.7	0.04	0.06	15.1	0.32	606	8.57	0.06	17.5	838	7.4	0.008
B0015106	190.6	3.50	8.1	0.07	0.05	8.3	0.20	322	14.16	0.03	7.6	455	10.1	<0.005
B0015107	1170.6	2.05	4.7	0.06	0.05	13.5	0.23	477	11.87	0.03	7.2	1131	6.0	0.008
B0015108	374.4	3.26	7.5	0.05	0.10	5.9	0.42	1071	15.47	0.05	9.4	777	9.9	<0.005
B0015109	465.2	3.32	7.4	0.04	0.07	5.3	0.47	407	12.75	0.04	9.6	562	7.3	<0.005
B0015110	143.5	3.74	9.8	0.05	0.07	4.0	0.47	364	6.71	0.03	10.7	795	12.2	<0.005
B0015111	572.7	3.78	8.7	0.02	0.07	5.5	0.45	316	11.59	0.03	8.4	527	8.8	<0.005
B0015112	725.8	3.51	8.6	0.03	0.06	4.3	0.46	401	6.18	0.03	14.2	641	8.2	<0.005
B0015113	267.2	4.18	9.5	0.05	0.07	4.2	0.68	443	9.56	0.04	13.9	494	7.8	<0.005
B0015114	750.3	3.65	8.5	0.03	0.06	6.5	0.59	675	11.01	0.04	11.9	551	9.0	<0.005
B0015115	664.9	3.24	8.6	0.05	0.05	10.5	0.54	400	15.60	0.04	10.4	424	10.9	<0.005
B0015116	182.5	3.06	8.6	0.03	0.05	4.4	0.40	343	4.30	0.03	9.0	453	9.8	<0.005
B0015117	453.1	2.99	6.3	0.04	0.08	4.7	0.68	352	5.46	0.04	13.1	961	6.7	<0.005
B0015118	3507.7	2.71	7.5	0.05	0.05	43.8	0.45	1106	7.28	0.06	13.7	697	8.3	0.016
B0015119	67.1	3.40	8.2	0.06	0.05	3.1	0.60	329	3.33	0.03	12.5	690	7.2	<0.005
B0015120	77.2	2.73	6.6	0.03	0.04	6.8	0.27	231	9.52	0.03	7.6	367	6.1	<0.005
B0015121	66.1	2.45	7.0	0.05	0.04	3.5	0.18	125	7.85	0.03	5.4	377	8.0	<0.005
B0015122	81.1	2.80	5.7	0.06	0.04	3.2	0.33	236	2.57	0.02	8.6	1174	4.4	<0.005
B0015123	56.7	2.62	6.1	0.04	0.05	3.1	0.18	138	4.96	0.02	5.6	475	5.8	<0.005
B0015124	58.4	2.95	7.0	0.04	0.04	2.5	0.21	190	8.83	0.02	5.1	444	5.5	<0.005
B0015125	45.1	3.19	7.5	0.05	0.03	3.1	0.27	207	3.40	0.02	7.0	569	6.7	<0.005

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MS Analytical
 Unit 1, 20120 102nd Avenue
 Langley, BC V1M 4B4
 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 Cu ppm	IMS-116 Fe %	IMS-116 Ga ppm	IMS-116 Hg ppm	IMS-116 K %	IMS-116 La ppm	IMS-116 Mg %	IMS-116 Mn ppm	IMS-116 Mo ppm	IMS-116 Na %	IMS-116 Ni ppm	IMS-116 P ppm	IMS-116 Pb ppm	IMS-116 Re ppm
B0015126	32.6	3.32	8.8	0.03	0.03	3.9	0.26	976	2.31	0.03	7.4	838	9.9	<0.005
B0015127	101.9	3.92	9.8	0.09	0.05	14.5	0.33	584	4.84	0.03	9.2	508	7.9	<0.005
B0015128	163.8	3.72	6.0	0.04	0.04	6.9	0.17	228	30.72	0.02	5.9	508	7.1	<0.005
B0015129	209.5	0.86	4.1	0.12	0.03	8.5	0.14	72	6.88	0.02	5.9	734	6.0	<0.005
B0015130	31.6	2.07	5.8	0.06	0.03	3.8	0.11	714	2.62	0.02	4.5	494	6.7	<0.005
B0015131	118.0	5.68	4.9	0.08	0.03	15.0	0.10	4359	13.65	0.02	5.5	652	6.8	<0.005
B0015132	38.6	2.22	5.2	0.03	0.05	3.1	0.25	645	2.14	0.02	7.5	420	7.4	<0.005
B0015133	46.8	2.84	7.7	0.05	0.03	6.9	0.33	185	3.50	0.02	9.0	347	6.3	<0.005
B0015134	66.3	1.87	5.9	0.11	0.04	6.8	0.31	280	2.31	0.02	6.6	512	6.2	<0.005
B0015135	77.4	3.59	6.9	0.04	0.07	8.3	1.98	275	1.37	0.03	87.5	301	3.5	<0.005
B0015136	26.3	3.26	7.9	0.10	0.04	4.2	0.56	282	1.66	0.02	11.8	804	5.1	<0.005
B0015137	220.8	2.44	4.5	0.05	0.04	9.4	0.27	402	18.44	0.02	7.0	704	4.7	0.008
B0015138	18.5	3.12	7.0	0.03	0.04	3.3	0.36	435	2.07	0.02	8.1	694	5.6	<0.005
B0015139	22.9	2.12	7.0	0.06	0.02	5.2	0.13	103	2.21	0.01	4.2	219	7.6	<0.005
B0015140	35.7	3.67	10.2	0.10	0.03	3.4	0.49	257	2.77	0.03	12.6	323	6.6	<0.005
B0015141	229.5	10.07	5.3	0.04	0.11	15.5	0.57	602	47.63	0.03	9.4	815	6.3	0.018
B0015142	342.0	3.35	7.3	0.04	0.08	9.2	0.56	817	9.01	0.04	11.2	788	7.5	<0.005
B0015143	723.1	3.12	6.9	0.04	0.09	15.8	0.83	812	13.90	0.08	16.0	797	5.2	<0.005
B0015144	193.7	3.12	6.0	0.03	0.08	4.9	0.58	593	8.09	0.03	11.5	717	6.1	<0.005
B0015145	235.7	3.04	4.9	0.03	0.09	5.9	0.56	643	14.74	0.04	11.3	794	10.5	<0.005
B0015146	55.0	2.77	7.7	0.07	0.04	3.4	0.31	343	3.93	0.02	9.0	771	5.5	<0.005
B0015147	498.3	2.69	8.4	0.06	0.04	16.2	0.49	2137	21.39	0.04	13.5	690	7.3	0.007
B0015148	251.6	3.17	10.1	0.06	0.05	11.7	0.32	815	15.98	0.04	7.9	459	10.3	<0.005
B0015149	332.8	3.48	9.5	0.04	0.06	11.8	0.60	724	13.14	0.04	14.9	689	8.8	<0.005
B0015150	110.1	3.21	9.2	0.06	0.05	10.6	0.52	358	11.87	0.03	12.4	457	6.7	<0.005

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MS Analytical
 Unit 1, 20120 102nd Avenue
 Langley, BC V1M 4B4
 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 Cu ppm	IMS-116 Fe %	IMS-116 Ga ppm	IMS-116 Hg ppm	IMS-116 K %	IMS-116 La ppm	IMS-116 Mg %	IMS-116 Mn ppm	IMS-116 Mo ppm	IMS-116 Na %	IMS-116 Ni ppm	IMS-116 P ppm	IMS-116 Pb ppm	IMS-116 Re ppm
B0015151	1933.6	3.25	8.7	0.05	0.05	19.3	0.36	665	8.13	0.05	12.0	780	9.4	0.005
B0015152	635.6	3.04	9.2	0.05	0.06	7.6	0.46	566	6.35	0.05	11.4	719	10.8	<0.005
B0015153	3241.3	3.38	8.9	0.04	0.09	38.7	0.87	1066	10.01	0.07	21.1	1054	12.7	0.008
B0015154	39.8	3.41	11.5	0.05	0.07	4.4	0.58	840	2.73	0.04	14.3	887	12.4	<0.005
B0015155	1130.9	3.30	9.1	0.07	0.07	27.6	0.45	1613	13.37	0.06	10.9	972	10.8	0.019
B0015156	200.2	3.41	9.3	0.05	0.08	10.3	0.83	1277	9.11	0.06	18.7	780	10.0	0.006
B0015157	269.2	2.88	7.0	0.06	0.05	10.1	0.28	599	12.90	0.03	8.7	789	7.4	0.015
B0015158	85.1	3.25	9.0	0.06	0.10	6.4	0.45	911	4.27	0.03	12.9	822	12.9	<0.005
B0015159	148.0	3.93	10.5	0.04	0.05	9.0	0.55	525	7.79	0.04	12.4	834	8.1	<0.005
B0015160	195.1	3.56	9.9	0.05	0.10	8.8	0.76	895	4.12	0.04	16.7	1085	10.0	<0.005
B0015161	92.9	3.34	9.6	0.06	0.09	8.0	0.74	1345	3.06	0.03	16.2	1123	11.0	<0.005
B0015162	92.6	3.30	10.5	0.04	0.07	8.8	0.46	1000	6.63	0.03	10.8	933	10.2	<0.005
B0015163	35.5	3.31	7.7	0.04	0.15	3.0	0.87	721	1.23	0.04	15.5	1305	9.4	<0.005
B0015164	36.3	3.21	7.4	0.04	0.13	3.4	1.02	1196	1.22	0.06	17.3	1540	9.8	<0.005
B0015165	25.2	3.40	9.6	0.04	0.10	3.3	0.65	842	1.62	0.03	11.5	599	12.8	<0.005
B0015166	25.4	3.48	8.6	0.05	0.11	3.4	0.80	547	4.14	0.03	16.0	481	14.6	<0.005
B0015167	23.1	3.53	8.8	0.05	0.14	3.1	0.69	758	7.60	0.03	11.6	569	9.6	<0.005
B0015168	42.5	2.78	6.5	0.04	0.09	10.2	0.48	514	4.49	0.02	8.3	912	7.5	<0.005
B0015169	29.2	3.70	8.4	0.04	0.21	2.3	0.99	678	0.72	0.06	13.4	779	12.2	<0.005
B0015170	10.7	3.09	8.9	0.03	0.11	2.1	0.62	640	0.46	0.04	9.0	1179	10.4	<0.005

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To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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 Report Version: Final

Sample ID	IMS-116 Cu ppm	IMS-116 Fe %	IMS-116 Ga ppm	IMS-116 Hg ppm	IMS-116 K %	IMS-116 La ppm	IMS-116 Mg %	IMS-116 Mn ppm	IMS-116 Mo ppm	IMS-116 Na %	IMS-116 Ni ppm	IMS-116 P ppm	IMS-116 Pb ppm	IMS-116 Re ppm
DUP B0015075	0.2	0.01	0.1	0.01	0.01	0.5	0.01	5	0.05	0.01	0.1	10	0.2	0.005
DUP B0015119	38.7	3.31	7.4	0.06	0.06	3.2	0.60	561	2.31	0.02	16.1	630	7.5	<0.005
DUP B0015152	68.0	3.48	8.2	0.06	0.05	3.1	0.61	336	3.38	0.03	12.7	701	7.4	<0.005
DUP B0015169	633.3	3.00	9.1	0.05	0.06	7.4	0.45	553	6.12	0.04	11.1	695	10.7	<0.005
STD BLANK	29.9	3.82	8.8	0.04	0.22	2.3	1.04	707	0.72	0.06	13.5	807	12.6	<0.005
STD BLANK	<0.2	<0.01	<0.1	<0.01	<0.01	<0.5	<0.01	<5	<0.05	<0.01	<0.1	<10	<0.2	<0.005
STD BLANK	<0.2	<0.01	<0.1	<0.01	<0.01	<0.5	<0.01	<5	<0.05	<0.01	<0.1	<10	<0.2	<0.005
STD BLANK	<0.2	<0.01	<0.1	<0.01	<0.01	<0.5	<0.01	<5	<0.05	<0.01	<0.1	<10	<0.2	<0.005
STD OREAS 601	1041.8	2.23	4.8	0.30	0.26	21.5	0.20	475	3.70	0.09	23.8	377	287.5	<0.005
STD OREAS 24b	36.3	4.01	10.7	<0.01	1.19	28.5	1.37	362	3.87	0.11	56.5	648	9.7	<0.005
STD OREAS 24b	37.0	3.99	11.1	<0.01	1.18	31.9	1.37	362	3.80	0.12	57.9	658	9.1	<0.005
STD OREAS 601	1022.3	2.15	4.7	0.32	0.25	21.6	0.19	440	3.97	0.10	22.8	358	274.7	<0.005

***Please refer to the cover page for comments regarding this certificate. ***



MS Analytical
 Unit 1, 20120 102nd Avenue
 Langley, BC V1M 4B4
 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
---------------------------------	-------------------

Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 S %	IMS-116 Sb ppm	IMS-116 Sc ppm	IMS-116 Se ppm	IMS-116 Sr ppm	IMS-116 Te ppm	IMS-116 Th ppm	IMS-116 Ti %	IMS-116 Tl ppm	IMS-116 U ppm	IMS-116 V ppm	IMS-116 W ppm	IMS-116 Y ppm	IMS-116 Zn ppm
B0015001	0.03	0.32	2.2	0.3	17.3	0.10	0.7	0.080	<0.05	0.79	60	0.51	2.1	123
B0015002	0.02	0.22	1.2	<0.2	7.5	<0.05	0.5	0.080	<0.05	0.36	56	0.42	1.0	58
B0015003	0.05	0.25	1.8	0.9	18.4	<0.05	0.3	0.066	0.08	7.31	37	0.29	44.6	120
B0015004	0.03	0.18	1.8	0.7	14.2	0.10	0.8	0.111	<0.05	1.64	60	0.29	5.7	111
B0015005	0.01	0.17	1.4	<0.2	6.9	<0.05	0.8	0.088	<0.05	0.28	63	0.34	1.0	33
B0015006	0.05	0.19	2.1	1.5	35.9	0.06	0.4	0.070	0.06	3.06	56	0.21	19.1	144
B0015007	0.09	0.07	1.5	1.5	54.8	<0.05	<0.2	0.039	<0.05	7.60	20	0.21	20.4	68
B0015008	0.03	0.14	2.2	0.8	8.7	0.15	1.0	0.085	<0.05	1.42	80	0.39	5.2	51
B0015009	0.04	0.15	2.1	1.1	16.2	0.06	0.7	0.093	<0.05	2.00	66	0.44	8.8	44
B0015010	0.02	0.16	1.7	0.2	7.5	<0.05	0.6	0.085	<0.05	0.36	67	0.32	1.2	31
B0015011	0.02	0.09	3.4	0.2	16.7	<0.05	0.7	0.100	<0.05	0.60	68	0.21	2.5	60
B0015012	0.01	0.11	4.4	0.4	19.5	0.10	1.0	0.074	0.06	1.37	57	0.20	7.0	51
B0015013	0.02	0.15	4.1	0.4	16.7	0.12	0.7	0.111	0.05	3.26	67	0.24	9.6	91
B0015014	0.01	0.14	2.9	0.2	9.2	<0.05	1.1	0.049	0.05	0.56	64	0.20	1.9	52
B0015015	0.03	0.16	3.2	0.4	7.6	<0.05	1.4	0.143	<0.05	0.74	76	0.25	2.0	50
B0015016	0.02	0.16	2.4	0.3	6.2	<0.05	1.0	0.088	<0.05	0.61	56	0.27	2.1	57
B0015017	0.04	0.19	2.8	0.4	18.7	0.12	0.9	0.134	<0.05	1.21	77	0.20	2.9	163
B0015018	0.02	0.14	2.6	<0.2	9.3	0.08	0.9	0.133	<0.05	0.52	80	0.21	1.5	60
B0015019	0.04	0.22	6.1	1.0	46.3	<0.05	0.6	0.121	0.10	13.05	71	0.26	25.6	242
B0015020	0.01	0.19	6.5	0.3	12.7	0.07	1.2	0.144	0.06	1.64	100	0.37	4.5	150
B0015021	0.04	0.31	4.2	0.6	26.2	0.07	0.6	0.093	0.06	3.01	75	0.24	8.8	144
B0015022	0.03	1.24	5.9	0.6	14.5	0.30	0.8	0.034	0.09	1.38	97	0.26	6.6	157
B0015023	0.04	0.20	3.4	0.4	18.6	<0.05	0.6	0.109	0.06	2.18	69	0.29	4.2	105
B0015024	0.04	0.25	2.6	0.5	18.8	0.05	0.5	0.085	0.06	1.64	62	0.35	4.7	75
B0015025	0.06	0.16	1.8	0.7	9.2	0.41	0.3	0.112	<0.05	1.23	82	3.65	3.0	50

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MS Analytical
 Unit 1, 20120 102nd Avenue
 Langley, BC V1M 4B4
 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 S %	IMS-116 Sb ppm	IMS-116 Sc ppm	IMS-116 Se ppm	IMS-116 Sr ppm	IMS-116 Te ppm	IMS-116 Th ppm	IMS-116 Ti %	IMS-116 Tl ppm	IMS-116 U ppm	IMS-116 V ppm	IMS-116 W ppm	IMS-116 Y ppm	IMS-116 Zn ppm
B0015026	0.02	0.17	1.4	0.4	4.1	0.05	0.9	0.147	0.05	1.17	47	0.68	1.4	25
B0015027	0.03	0.28	2.1	<0.2	5.8	<0.05	0.3	0.143	0.08	0.55	62	0.24	1.7	36
B0015028	0.03	0.31	2.7	0.5	6.4	0.10	1.2	0.235	0.07	0.69	107	0.50	1.7	58
B0015029	0.03	0.14	1.5	<0.2	10.8	<0.05	0.3	0.118	0.12	0.79	44	1.20	1.7	67
B0015030	0.02	0.10	4.5	0.3	15.4	0.29	1.4	0.096	0.08	1.67	78	0.96	6.1	103
B0015031	0.04	0.12	3.1	<0.2	22.0	0.05	0.4	0.105	0.08	0.68	72	0.47	2.6	110
B0015032	0.04	0.11	3.5	0.3	24.6	0.07	0.7	0.090	0.06	0.77	77	0.38	2.3	102
B0015033	0.03	0.13	2.8	<0.2	11.0	<0.05	0.5	0.121	<0.05	0.51	85	0.31	1.8	76
B0015034	0.02	0.12	3.0	0.3	19.6	0.07	0.8	0.115	<0.05	4.94	82	0.33	3.2	128
B0015035	0.02	0.34	4.4	0.3	9.1	0.07	1.5	0.088	0.09	0.60	77	0.35	2.8	129
B0015036	0.03	0.11	2.3	0.7	32.0	0.05	0.3	0.083	0.07	4.13	68	0.38	14.5	97
B0015037	0.03	0.11	2.4	0.3	19.5	<0.05	0.8	0.100	<0.05	0.68	67	0.29	2.0	82
B0015038	0.06	0.07	2.2	0.9	15.6	0.14	0.4	0.034	0.06	3.72	54	0.16	10.6	91
B0015039	0.03	0.13	4.2	1.4	11.3	0.16	2.0	0.080	0.06	2.58	66	0.29	6.1	62
B0015040	0.03	0.18	2.6	0.4	7.7	<0.05	1.3	0.107	<0.05	0.94	70	0.41	2.2	37
B0015041	0.02	0.06	2.6	<0.2	11.0	<0.05	0.7	0.080	<0.05	0.49	55	0.25	2.6	48
B0015042	0.03	0.19	2.8	0.7	9.6	0.05	1.1	0.081	<0.05	0.83	67	0.39	2.1	75
B0015043	0.02	0.92	1.9	0.5	6.8	0.22	1.2	0.053	0.06	0.58	51	0.50	1.3	71
B0015044	0.03	1.33	6.1	0.3	8.2	0.21	1.2	0.084	0.12	0.84	109	0.37	2.3	108
B0015045	0.04	0.19	3.9	0.2	27.8	0.07	0.7	0.113	<0.05	0.77	87	0.56	3.1	104
B0015046	0.04	0.58	2.4	0.2	27.5	<0.05	0.4	0.067	0.06	0.71	62	0.59	4.4	94
B0015047	0.02	0.74	2.2	0.3	8.1	0.13	0.7	0.048	0.06	0.52	54	1.00	2.1	76
B0015048	0.06	2.52	1.6	0.3	21.7	0.27	0.3	0.045	0.08	1.14	51	3.34	3.7	111
B0015049	0.08	1.55	1.2	0.3	37.1	0.34	0.2	0.026	0.09	0.79	41	0.50	2.9	117
B0015050	0.09	9.24	1.5	0.3	39.3	0.33	0.3	0.024	0.08	0.99	46	0.66	4.8	124

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To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
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B0015051	0.05	0.21	2.8	0.3	12.8	<0.05	0.8	0.079	0.11	1.76	67	0.20	3.3	95
B0015052	0.02	0.08	0.5	<0.2	5.4	0.07	<0.2	0.033	0.10	0.34	36	0.07	1.0	18
B0015053	0.02	0.12	1.5	<0.2	6.7	<0.05	0.5	0.116	0.06	0.44	64	0.18	1.2	35
B0015054	0.04	0.13	2.2	0.2	10.4	<0.05	0.5	0.133	<0.05	0.72	66	0.21	2.4	48
B0015055	0.03	0.10	3.8	0.3	15.1	0.09	0.5	0.145	0.10	3.35	73	0.30	9.2	114
B0015056	0.03	0.10	1.9	0.2	6.4	0.06	0.3	0.218	0.05	0.33	109	0.86	1.6	37
B0015057	0.03	0.09	2.8	<0.2	8.8	0.15	0.3	0.168	<0.05	0.46	79	0.51	2.9	50
B0015058	0.04	0.07	2.5	<0.2	3.4	<0.05	<0.2	0.142	0.10	0.41	82	1.04	1.7	68
B0015059	0.04	0.06	3.0	0.3	1.6	0.25	0.3	0.175	<0.05	0.41	105	5.72	1.8	49
B0015060	0.03	0.07	1.0	0.5	5.8	<0.05	0.2	0.060	0.06	1.88	49	0.29	3.6	31
B0015061	0.04	0.12	3.1	0.4	9.8	0.06	1.7	0.220	<0.05	0.69	114	0.23	2.1	34
B0015062	0.04	0.11	3.2	0.5	12.7	<0.05	2.4	0.170	0.06	0.98	105	0.17	2.0	34
B0015063	0.05	0.18	3.1	0.7	20.6	0.08	1.5	0.148	0.06	0.90	101	0.25	2.1	40
B0015064	0.04	0.19	2.2	0.6	19.9	0.08	0.7	0.118	0.07	0.98	83	0.25	2.0	40
B0015065	0.04	0.12	3.9	0.6	53.0	0.14	1.1	0.129	0.06	1.05	85	0.29	2.5	62
B0015066	0.05	0.18	2.7	0.6	25.6	0.12	0.7	0.138	0.07	0.85	91	0.48	2.0	45
B0015067	0.05	0.17	4.0	0.4	63.3	0.18	1.0	0.177	0.05	0.64	90	0.27	2.1	65
B0015068	0.04	0.12	3.0	0.4	33.2	0.14	0.5	0.106	0.07	0.66	82	0.24	1.8	70
B0015069	0.04	0.16	3.5	0.4	24.9	<0.05	0.9	0.091	0.06	0.78	78	0.25	2.4	66
B0015070	0.04	0.15	3.1	0.3	19.3	0.12	0.6	0.089	0.05	0.71	72	0.22	2.0	60
B0015071	0.04	0.15	7.8	0.3	23.1	0.19	0.7	0.200	0.11	1.44	127	0.24	3.7	142
B0015072	0.04	0.15	2.5	0.2	14.5	<0.05	0.4	0.118	<0.05	0.53	85	0.23	1.4	73
B0015073	0.03	0.15	2.5	0.3	10.6	0.06	0.5	0.107	0.05	0.63	78	0.28	1.6	58
B0015074	0.02	0.11	3.2	<0.2	12.7	<0.05	0.6	0.104	<0.05	0.52	66	0.20	2.6	77
B0015075	0.03	0.17	3.1	0.2	12.0	0.06	0.4	0.109	<0.05	0.73	79	0.23	2.4	100

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To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
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Project Name: Spivs
 Job Received Date: 10-Oct-2018
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B0015076	0.02	0.10	4.7	0.2	23.8	0.08	0.8	0.101	0.07	0.84	68	0.21	5.6	82
B0015077	0.03	0.14	3.4	0.2	13.6	0.06	0.6	0.110	<0.05	0.69	82	0.23	2.9	71
B0015078	0.06	0.11	0.6	0.6	6.0	<0.05	<0.2	0.069	0.07	1.81	37	0.36	2.1	40
B0015079	0.05	0.19	2.5	0.5	5.3	0.10	0.5	0.143	0.10	0.72	68	0.31	2.2	54
B0015080	0.02	0.36	1.5	<0.2	5.4	0.13	0.6	0.147	<0.05	0.36	72	0.37	1.1	27
B0015081	0.02	0.13	6.0	<0.2	8.7	0.20	1.0	0.158	0.11	0.89	81	0.88	3.2	151
B0015082	0.03	0.15	2.4	<0.2	17.7	0.13	0.4	0.129	0.09	0.39	63	0.87	1.8	105
B0015083	0.02	0.13	4.2	0.2	17.5	<0.05	0.8	0.120	0.05	0.49	88	0.44	2.3	102
B0015084	0.05	0.11	6.8	0.7	13.1	0.17	0.9	0.140	0.08	1.41	109	0.78	4.8	118
B0015085	0.03	0.12	2.5	0.3	8.2	<0.05	0.7	0.118	<0.05	0.57	82	0.26	1.7	38
B0015086	0.03	0.15	2.8	0.8	31.3	0.06	0.7	0.122	0.08	2.05	71	0.32	3.8	84
B0015087	0.02	0.09	3.8	0.6	12.8	<0.05	0.9	0.089	0.05	1.61	72	0.37	3.4	90
B0015088	0.02	0.09	4.8	0.3	15.8	0.06	1.3	0.104	0.06	0.94	69	0.22	4.9	71
B0015089	0.03	0.56	3.6	3.2	2.5	0.40	5.4	<0.005	0.08	24.08	12	0.33	19.7	40
B0015090	0.03	0.17	2.0	0.3	8.2	0.06	0.7	0.092	0.05	0.78	70	0.35	1.6	42
B0015091	0.02	0.11	2.4	<0.2	9.1	0.09	0.6	0.101	<0.05	0.69	66	0.39	1.8	68
B0015092	0.03	0.67	3.2	0.3	5.5	0.11	0.8	0.088	0.05	0.89	78	0.43	2.3	65
B0015093	0.02	1.68	2.7	0.3	9.7	0.18	0.8	0.062	0.06	0.71	63	0.80	1.8	78
B0015094	0.06	1.30	2.3	0.7	16.1	0.22	0.6	0.017	0.09	0.95	53	0.55	2.5	120
B0015095	0.09	1.38	1.2	0.5	66.6	0.37	0.3	0.017	0.07	0.74	41	0.91	2.5	102
B0015096	0.02	0.22	3.9	<0.2	14.5	0.33	1.7	0.199	0.11	0.64	75	0.94	3.2	262
B0015097	0.03	0.87	2.2	0.3	16.1	0.27	0.7	0.106	0.07	0.62	61	1.51	2.2	167
B0015098	0.07	0.37	2.9	0.5	66.1	0.11	0.7	0.145	0.09	1.88	59	0.50	13.4	106
B0015099	0.04	0.14	3.1	0.3	46.5	0.15	0.5	0.175	0.08	0.79	72	0.31	5.2	217
B0015100	0.03	0.44	3.4	0.3	29.9	0.15	0.7	0.168	0.06	0.72	74	0.47	3.5	152

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An A2 Global Company

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Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS: YVR1811059

Project Name: Spivs
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Table with 15 columns (Sample ID, IMS-116 S, IMS-116 Sb, IMS-116 Sc, IMS-116 Se, IMS-116 Sr, IMS-116 Te, IMS-116 Th, IMS-116 Ti, IMS-116 Tl, IMS-116 U, IMS-116 V, IMS-116 W, IMS-116 Y, IMS-116 Zn) and 25 rows of data.

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Sample ID	IMS-116 S %	IMS-116 Sb ppm	IMS-116 Sc ppm	IMS-116 Se ppm	IMS-116 Sr ppm	IMS-116 Te ppm	IMS-116 Th ppm	IMS-116 Ti %	IMS-116 Tl ppm	IMS-116 U ppm	IMS-116 V ppm	IMS-116 W ppm	IMS-116 Y ppm	IMS-116 Zn ppm
B0015126	0.02	0.14	2.0	<0.2	16.8	<0.05	0.7	0.150	<0.05	0.45	78	0.20	1.9	114
B0015127	0.04	0.12	2.8	1.3	28.0	<0.05	0.7	0.132	0.06	2.67	68	0.19	13.3	106
B0015128	0.04	0.09	1.4	0.9	47.9	<0.05	0.3	0.089	<0.05	2.05	128	0.23	6.0	46
B0015129	0.10	0.11	0.7	2.1	19.3	<0.05	<0.2	0.035	<0.05	6.17	19	0.14	6.3	49
B0015130	0.03	0.13	1.0	<0.2	18.0	0.09	<0.2	0.078	<0.05	0.50	43	0.19	2.0	55
B0015131	0.08	0.39	1.6	1.7	28.7	<0.05	0.3	0.058	0.07	5.19	40	0.22	16.8	68
B0015132	0.03	0.17	1.5	<0.2	18.0	<0.05	0.3	0.083	<0.05	0.88	52	0.25	1.9	104
B0015133	0.03	0.10	2.8	0.4	22.2	<0.05	0.5	0.136	<0.05	1.24	68	0.17	6.0	52
B0015134	0.05	0.13	1.9	0.5	31.4	<0.05	<0.2	0.087	<0.05	3.24	48	0.16	5.7	52
B0015135	0.02	0.08	3.2	0.3	38.6	<0.05	1.3	0.289	<0.05	1.41	113	0.10	5.9	98
B0015136	0.03	0.09	2.7	0.3	16.1	<0.05	0.4	0.132	<0.05	0.81	74	0.13	3.2	102
B0015137	0.07	0.12	1.5	1.4	26.0	<0.05	<0.2	0.053	0.06	3.14	41	0.16	9.0	106
B0015138	0.02	0.08	2.8	<0.2	13.6	<0.05	1.1	0.154	<0.05	0.50	79	0.18	2.5	124
B0015139	0.02	0.11	1.7	<0.2	10.5	<0.05	0.6	0.145	<0.05	0.56	68	0.16	3.6	47
B0015140	0.03	0.12	4.0	0.2	15.6	0.12	1.3	0.167	<0.05	0.49	85	0.19	2.8	169
B0015141	0.05	0.21	4.3	2.3	46.4	0.08	1.1	0.064	0.08	5.66	88	0.28	15.2	65
B0015142	0.02	0.12	3.8	1.0	31.2	0.11	0.9	0.080	0.06	3.17	69	0.28	9.2	106
B0015143	0.03	0.11	5.6	0.9	47.8	<0.05	1.0	0.123	0.09	4.64	73	0.16	14.9	68
B0015144	0.02	0.11	3.6	0.5	19.0	0.07	1.1	0.079	0.07	1.96	68	0.50	4.8	112
B0015145	0.03	0.19	3.2	0.9	35.5	0.07	1.4	0.056	0.07	3.28	55	0.28	6.2	93
B0015146	0.02	0.10	2.1	0.3	15.8	<0.05	0.7	0.102	<0.05	0.63	64	0.20	2.5	95
B0015147	0.05	0.13	3.3	1.1	29.4	0.05	0.5	0.101	0.13	3.86	59	0.16	12.1	83
B0015148	0.03	0.14	2.8	0.4	26.7	<0.05	0.9	0.163	0.08	2.31	67	0.28	7.9	91
B0015149	0.03	0.14	4.5	0.4	24.7	0.09	1.2	0.141	0.07	2.14	75	0.20	10.2	99
B0015150	0.04	0.11	4.0	0.6	49.5	<0.05	0.7	0.154	0.06	2.21	75	0.16	12.4	82

***Please refer to the cover page for comments regarding this certificate. ***



MS Analytical
 Unit 1, 20120 102nd Avenue
 Langley, BC V1M 4B4
 Phone: +1-604-888-0875

To: **Ridgeline Exploration Services**
355-1632 Dickson Avenue
Kelowna, BC
V1Y 7T2

CERTIFICATE OF ANALYSIS:	YVR1811059
---------------------------------	-------------------

Project Name: Spivs
 Job Received Date: 10-Oct-2018
 Job Report Date: 06-Dec-2018
 Report Version: Final

Sample ID	IMS-116 S %	IMS-116 Sb ppm	IMS-116 Sc ppm	IMS-116 Se ppm	IMS-116 Sr ppm	IMS-116 Te ppm	IMS-116 Th ppm	IMS-116 Ti %	IMS-116 Tl ppm	IMS-116 U ppm	IMS-116 V ppm	IMS-116 W ppm	IMS-116 Y ppm	IMS-116 Zn ppm
B0015151	0.06	0.17	3.1	1.1	46.8	<0.05	0.5	0.114	0.07	5.08	59	0.30	15.0	169
B0015152	0.04	0.16	2.6	0.3	33.2	<0.05	0.4	0.134	<0.05	1.68	67	0.23	5.4	141
B0015153	0.04	0.14	6.3	1.0	56.3	0.12	0.8	0.131	0.09	6.24	73	0.28	30.2	148
B0015154	0.02	0.14	3.5	<0.2	16.9	0.05	1.3	0.176	0.07	0.59	77	0.20	2.5	215
B0015155	0.08	0.20	3.7	2.3	57.7	0.12	0.5	0.102	0.10	5.05	56	0.22	20.1	142
B0015156	0.05	0.14	3.9	1.2	49.5	0.05	0.4	0.123	0.07	1.72	77	0.16	8.4	132
B0015157	0.10	0.18	2.4	3.1	33.8	0.05	0.2	0.098	0.07	2.43	52	0.22	10.1	75
B0015158	0.08	0.17	2.5	0.5	27.2	0.09	0.3	0.132	<0.05	1.17	70	0.20	4.7	134
B0015159	0.08	0.15	3.0	2.2	52.9	<0.05	0.3	0.134	0.07	2.66	67	0.19	12.0	109
B0015160	0.09	0.14	3.5	1.3	21.9	0.07	0.3	0.149	0.06	1.64	80	0.22	9.4	136
B0015161	0.09	0.14	3.4	0.7	23.0	0.10	0.3	0.135	0.06	1.57	76	0.16	7.0	144
B0015162	0.07	0.19	2.6	0.8	24.8	0.09	0.4	0.135	<0.05	1.86	60	0.30	8.1	163
B0015163	0.04	0.13	3.3	<0.2	40.9	0.11	0.5	0.138	0.06	0.50	72	0.29	2.8	179
B0015164	0.03	0.16	3.9	<0.2	49.4	0.11	0.6	0.144	0.07	0.48	71	0.18	3.0	161
B0015165	0.02	0.17	3.1	<0.2	24.8	0.19	0.8	0.193	0.09	0.52	74	0.41	2.2	206
B0015166	0.02	0.18	3.7	<0.2	34.0	0.08	0.8	0.178	0.07	0.44	83	0.26	2.6	84
B0015167	0.02	0.25	3.0	<0.2	30.2	<0.05	0.7	0.201	0.07	0.50	76	0.36	2.3	90
B0015168	0.08	0.19	2.3	0.3	17.3	0.17	<0.2	0.095	0.07	4.47	58	0.29	12.1	63
B0015169	0.02	0.15	3.7	<0.2	39.4	0.16	0.5	0.222	0.08	0.42	85	0.28	2.7	95
B0015170	0.01	0.14	2.8	<0.2	16.8	0.08	0.6	0.243	0.10	0.24	66	0.17	1.6	130

***Please refer to the cover page for comments regarding this certificate. ***



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	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116	IMS-116
	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	U	V	W	Y	Zn
Sample ID	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
DUP B0015075	0.03	0.14	3.1	0.2	12.1	<0.05	0.4	0.111	<0.05	0.72	81	0.22	2.3	100
DUP B0015119	0.03	0.11	3.2	<0.2	17.3	0.11	0.8	0.169	<0.05	0.51	85	0.20	2.3	81
DUP B0015152	0.04	0.13	2.6	0.3	33.4	0.05	0.4	0.131	<0.05	1.67	67	0.23	5.4	138
DUP B0015169	0.02	0.15	3.7	<0.2	40.7	0.19	0.5	0.225	0.08	0.42	87	0.25	2.6	99
STD BLANK	<0.01	<0.05	<0.1	<0.2	<0.5	<0.05	<0.2	<0.005	<0.05	<0.05	<1	<0.05	<0.5	<2
STD BLANK	<0.01	<0.05	<0.1	<0.2	<0.5	<0.05	<0.2	<0.005	<0.05	<0.05	<1	<0.05	<0.5	<2
STD BLANK	<0.01	<0.05	<0.1	<0.2	<0.5	<0.05	<0.2	<0.005	<0.05	<0.05	<1	<0.05	<0.5	<2
STD OREAS 601	1.05	20.45	1.7	11.9	33.0	14.12	7.1	0.008	0.72	1.93	10	1.03	6.2	1359
STD OREAS 24b	0.19	0.54	9.5	<0.2	25.8	<0.05	14.4	0.202	0.62	1.69	83	1.19	11.8	95
STD OREAS 24b	0.20	0.43	9.9	<0.2	29.0	0.05	15.2	0.211	0.63	1.77	83	1.21	11.8	95
STD OREAS 601	1.00	19.76	1.7	11.5	33.6	14.83	6.7	0.006	0.78	1.86	10	1.01	6.0	1297

***Please refer to the cover page for comments regarding this certificate. ***

Appendix III
Walcott IP Survey Report.

A REPORT

ON

INDUCED POLARIZATION SURVEYING

**SPIUS PROJECT
NICOLA MINING DIVISION
BRITISH COLUMBIA
49° 55'N, 126° 316'W
NTS: 92H/14**

Claims Surveyed

1040680, 1040681, 1041084

for

PACIFIC RIDGE EXPLORATION LTD.

Vancouver, British Columbia

by

PETER E. WALCOTT & ASSOCIATES LIMITED

**COQUITLAM, BRITISH COLUMBIA
DECEMBER 2018**

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Introduction	2
Property Location & Access	3
Previous Work	6
Geology	7
Purpose	8
Survey Specifications	9
Discussion of Results	11
Summary, Conclusions & Recommendations	15

APPENDIX

Cost of Survey
Personnel Employed on Survey
Certification

ACCOMPANYING MAPS

MAP POCKET

Claim and Line Location Map	1:25,000
IP Pseudo Sections Lines 1000, 1250, 1500 & 1750N	1:5,000
Modeled Sections Lines 1000, 1250, 1500 & 1750N	1:5,000
Gridded n-2 Chargeability with historic data	1:5,000
Gridded n=2 Resistivity with historic data	1:5,000

INTRODUCTION.

Between October 17th and 26th, 2018, Peter E. Walcott & Associates Limited undertook induced polarization (IP) surveying for Pacific Ridge Exploration Ltd. on its Spius property, located some 40 km southwest of Merritt, and 10 km east northeast of Boston Bar, British Columbia.

Measurements – first to eighth separation – of apparent chargeability – the IP response parameter – and resistivity were made along the traverse lines using the pole-dipole technique with a 50 metre dipole.

A total of 4 traverses were complete for a total of some 11.5 kilometres. The lines were oriented at 60° and spaced 250 metres apart, and located by the geophysical crew on the fly as they surveyed. Three of the lines measured 2.9 km in length and Line 15+00N was stopped short due to a cliff.

The data are presented as individual pseudo sections at a scale of 1:5,000. In addition 2D inversion was carried out where merited with the results of which presented as model sections at the same scale.

Progress of the survey was severely hampered by the thick growth of willows and alders, making passage with reels and equipment somewhat challenging.

PROPERTY, LOCATION & ACCESS.

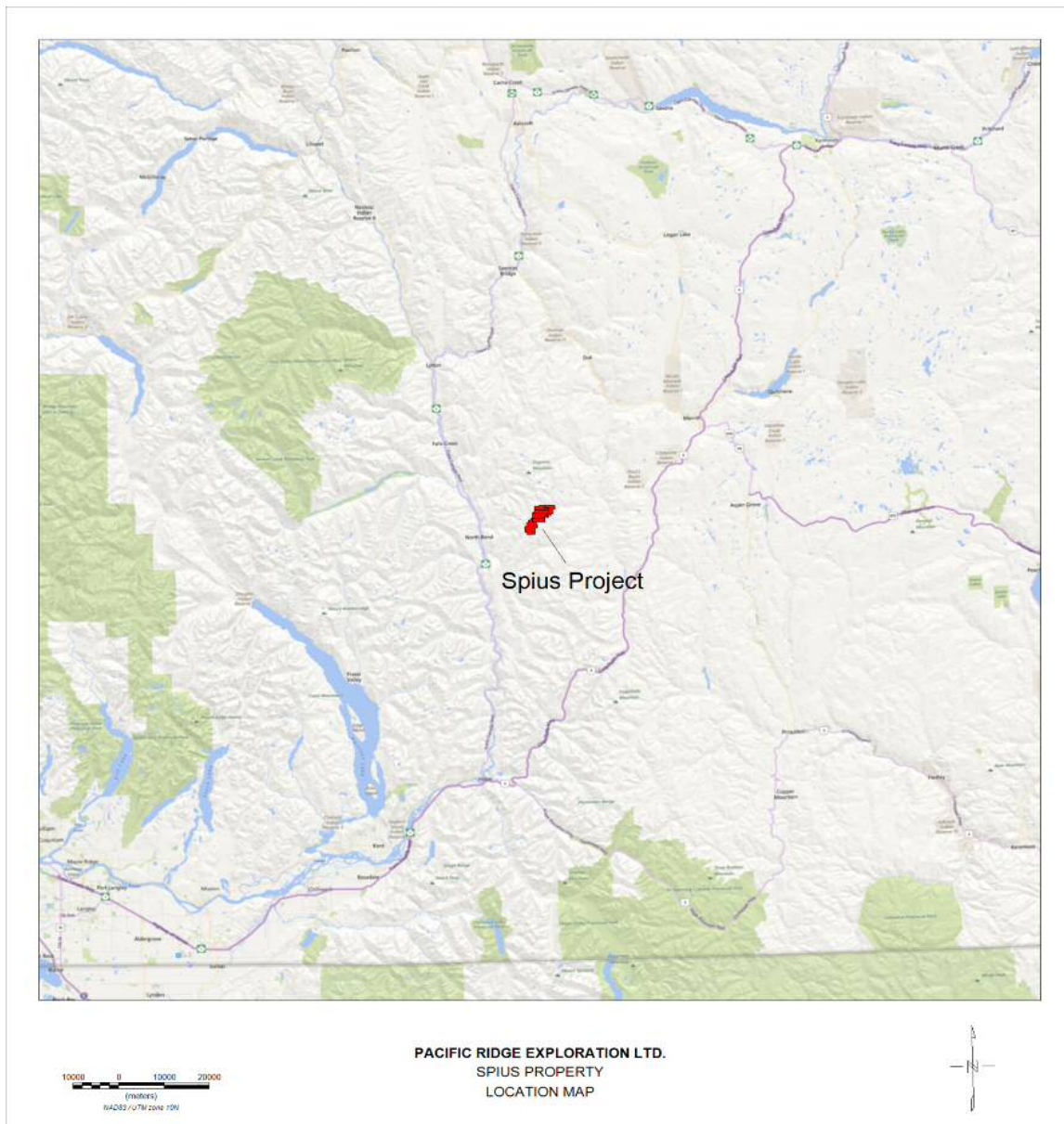
The Spius property is located in the Nicola Mining Division of British Columbia some 40 kilometres southwest of Merritt. It consists of the following claims:

<i>TENURE #</i>	<i>CLAIM NAME</i>	<i>HECTARES</i>	<i>ANNIVERSARY</i>
1040682	SPIUS 15A	249.6	FEB 11
1040681	SPIUS 15A	312	FEB 11
1040680	SPIUS 15A	270.5	FEB 11
1040684	SPIUS 15A	249.7	FEB 11
1042505	SPIUS 15A	332.8	FEB 11
1044594	SPIUS 15A	686.9	FEB 11

Access to the IP grid from Merritt is gained along the Coldwater Road for some 25 kilometres southwest, then west along a ranch road which becomes the Spius FSR. At km 25 the road becomes deactivated but is passable for another 8 odd kilometres before it forks.

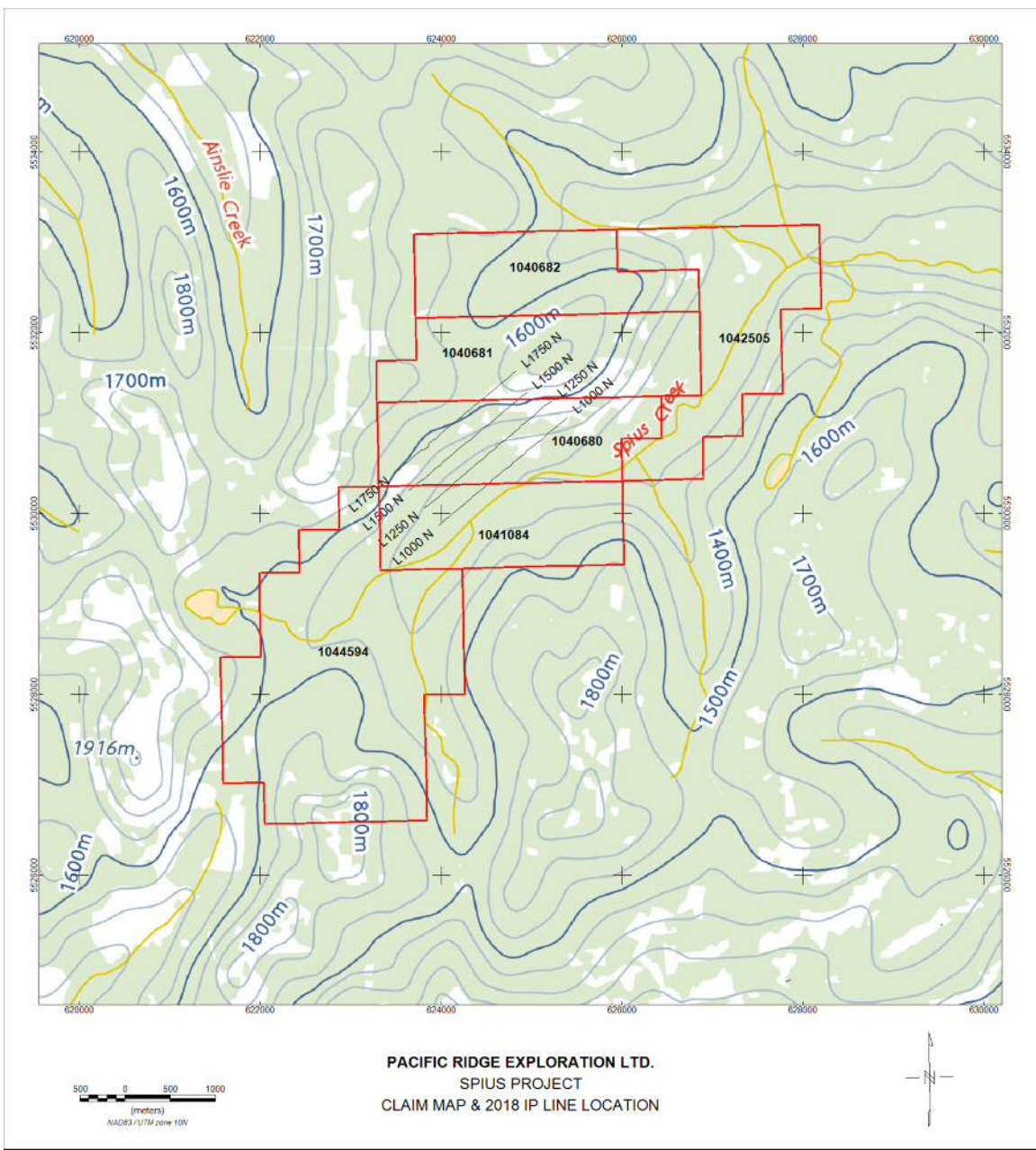
From here further access is obtained only by ATV.

PROPERTY, LOCATION & ACCESS cont'd.



Property Location

PROPERTY, LOCATION & ACCESS cont'd.



Claims Outline

**Peter E. Walcott & Associates Limited
Geophysical Services**

**Induced Polarization Surveying
Spius Property**

PREVIOUS WORK

In 1968 Orequest Exploration Syndicate optioned the property from prospectors and carried out trenching, geophysical and geochemical surveying, geological mapping followed by the drilling of five diamond drill holes. Encouraging results were supposedly obtained with one DDH apparently intersecting good mineralization with 10 feet of 0.42% Cu.

Murray Mining acquired the property in 1969 and conducted an EM survey on a tight grid, followed by the drilling of 10 percussion holes.

In 1970 Arrow Inter-America engaged Siegel Associates to conduct an IP survey over part of the property with higher chargeabilities noted over most of the area surveyed.

Brascan Resources worked the property from 1971 to 1974 with diamond drilling and trenching. Mapping of the trenches found the better copper mineralization to be associated with pink feldspar and quartz veining but the geologist of the day considered further work was not warranted.

In 1976 Canadian Occidental Petroleum spent a couple of days collecting some 100 soil and stream sediment samples. The results complimented Orequest's prior work. Contouring of the results delineated an area of some 1000 x 500 of > 1000 ppm Cu trending north northwest in the central part of the grid. Further work was recommended but not carried out.

In 2012 J.T. Shearer staked the area covering the property, and collected closely spaced soil samples along the Spius FSR below the central copper anomaly of Can Oxy. The results confirmed the presence of high copper values and extended the anomaly to the south.

For further information the reader is referred to the B.C. Ministry of Energy, Mines and Petroleum Reserves ARIS archive.

GEOLOGY.

The property is located on the western edge of the Quesnel Terrane just east of the northwest trending Fraser River – Straight fault system.

Regionally the general claim area is underlain by the Mount Lytton Complex, a major 160 odd long intrusive complex trending north west through central B.C.

The property is underlain by the Eagle Granodiorite, a coarse grained strongly foliated biotite granodiorite of Jurassic age.

A quartz feldspar porphyry plug intrudes the granodiorite near the norther end of the previously mentioned Cu anomaly.

Pyrite is widespread throughout the altered and sheared zones on the property.

For further information the reader is referred to the 2016 geological report on the property by Chris Paul and to the aforementioned ARIS website.

PURPOSE.

The purpose of the was to re-define and better refine the 1970 chargeability anomaly of the 1970 IP survey with more modern instrumentation.

SURVEY SPECIFICATIONS.

The induced polarization (I.P.) survey was conducted using a pulse type system, the principal components of which were manufactured by Walcer Geophysics of Emskillen, Ontario and GDD Instrumentation of St. Foy, Quebec, Canada.

The system consists basically of three units, a receiver (GDD), transmitter (Walcer) and a motor generator (Walcer). The transmitter, which provides a maximum of 7.5 kw d.c. to the ground, obtains its power from a 10 kw 400 c.p.s. three phase alternator driven by a Honda 24 h.p. gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C_1 and C_2 , the primary voltages (V) appearing between any two sequential potential electrodes, P_1 through P_{n+1} , during the "current-on" part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of ten individual windows of 100 millisecond widths.

The apparent resistivity (ρ_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode, C_1 , and the potential electrodes, P_1 through P_{n+1} , are moved in unison along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, C_2 , is kept constant at "infinity". The distance, "na" between C_1 and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse.

On this survey 50 metre dipoles were employed and first to eighth separation readings were obtained. In all some 11.5 kilometres of I.P. traversing were completed.

SURVEY SPECIFICATIONS cont'd.

Horizontal control.

The horizontal position of the stations were recorded using a WAAS equipped Garmin C60 handheld GPS receiver.

Data Presentation.

The I.P. data are presented as individual pseudo section plots of apparent chargeability and resistivity at a scale of 1:5,000. Plots of the 21 point moving filter – illustrated on the pseudo section – for the above are also displayed in the top window to better show the location of the anomalous zones.

Two dimensional smooth model inversion of the resistivity and chargeability was carried out using the Geotomo RES2DINV Algorithm, an algorithm developed by Loke et-al. This algorithm uses a 2-D finite element method and incorporates topography in modeling resistivity and I.P. data. Nearly uniform starting models are generated by running broad moving-average filters over the respective lines of data. Model resistivity and chargeability properties are then adjusted iteratively until the calculated data values match the observed as closely as possible, given constraints which keep the model section smooth. The smooth chargeability and resistivity models were then imported into Geosoft format for presentation at the same scale of 1:5,000 on the topographic profile.

DISCUSSION OF RESULTS.

The 1970 IP survey by Siegel Associates was carried on north south lines 800 feet apart using the pole-dipole method and making single separation (n=1) readings with a 200 and 400 foot dipole respectively.

The writers have georeferenced the plot of their contoured anomalies with those of the Cu soil results and drill hole collars and overlain them on the gridded second separation chargeability data.

As can be seen there is excellent correlation between the IP data sets except over the gossan zone where a weak shallow response of limited depth extent was noted on the eastern flank.

The overall picture has not appreciably changed with the strong north northwest trending copper anomaly flanked by two chargeability highs.

Background chargeabilities are in the order of 4 to mV/V above which large complex zones of higher chargeability are seen as noted in the 1970 IP report.

L 10N shows increased chargeability from 1650E to 2500E with lower resistivities on the west end, moderate in the middle, and high on the east.

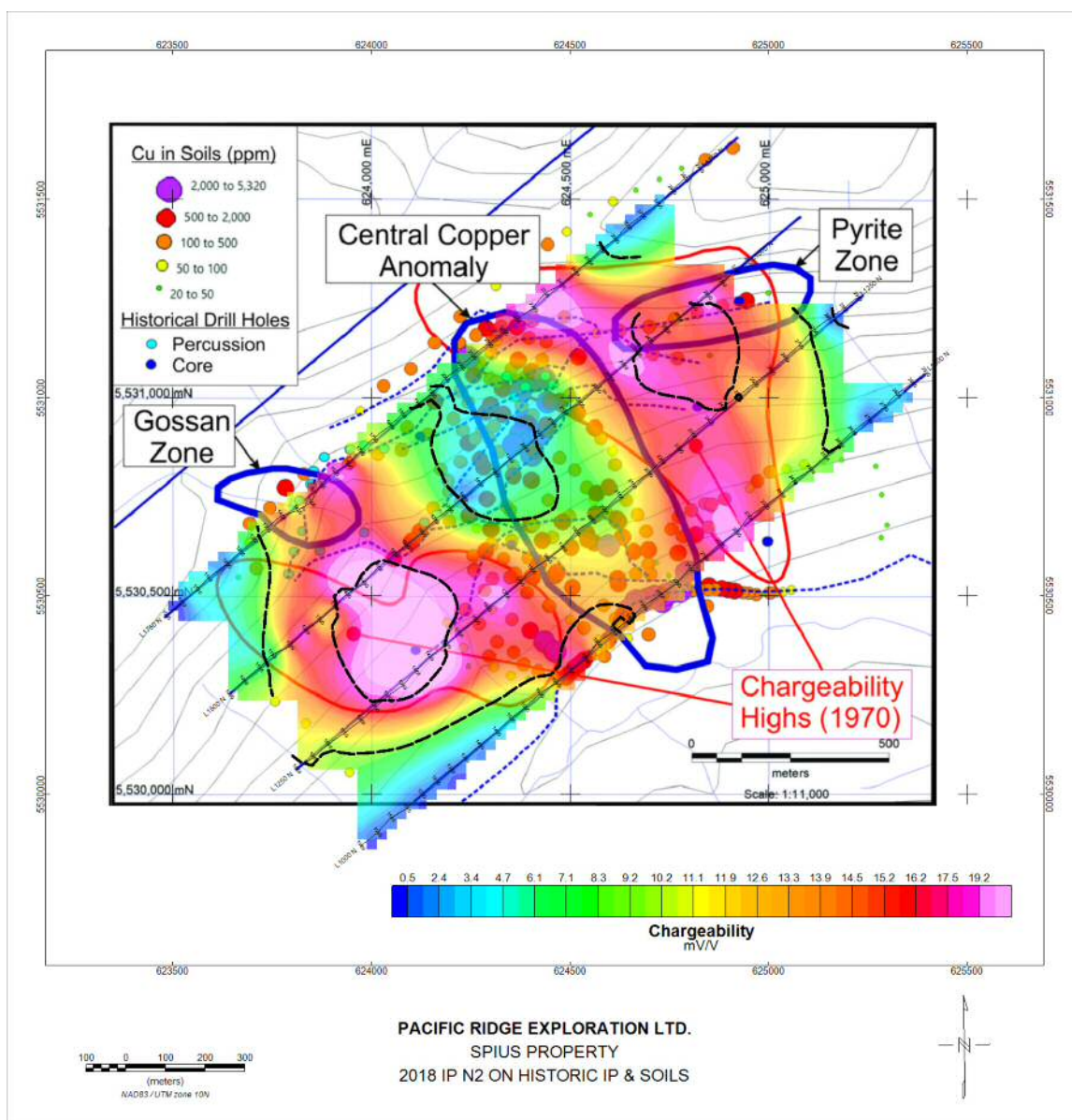
L 1250N exhibits elevated chargeability from 1050 to 1900E and from 2100 to 2700E, most of the line. Higher resistivities dominate all of the line with a stronger core between 1800 and 2200E. The latter probably defines the core of the intrusive.

Line 15N shows elevated chargeabilities between 1200 and 1700E, and between 2200 and 2800E. Moderate to high resistivities occupy the central portion of the line with lower ones on the flanks where low resistivities are seen associated with strong chargeabilities on the eastern end – the Pyrite Zone.

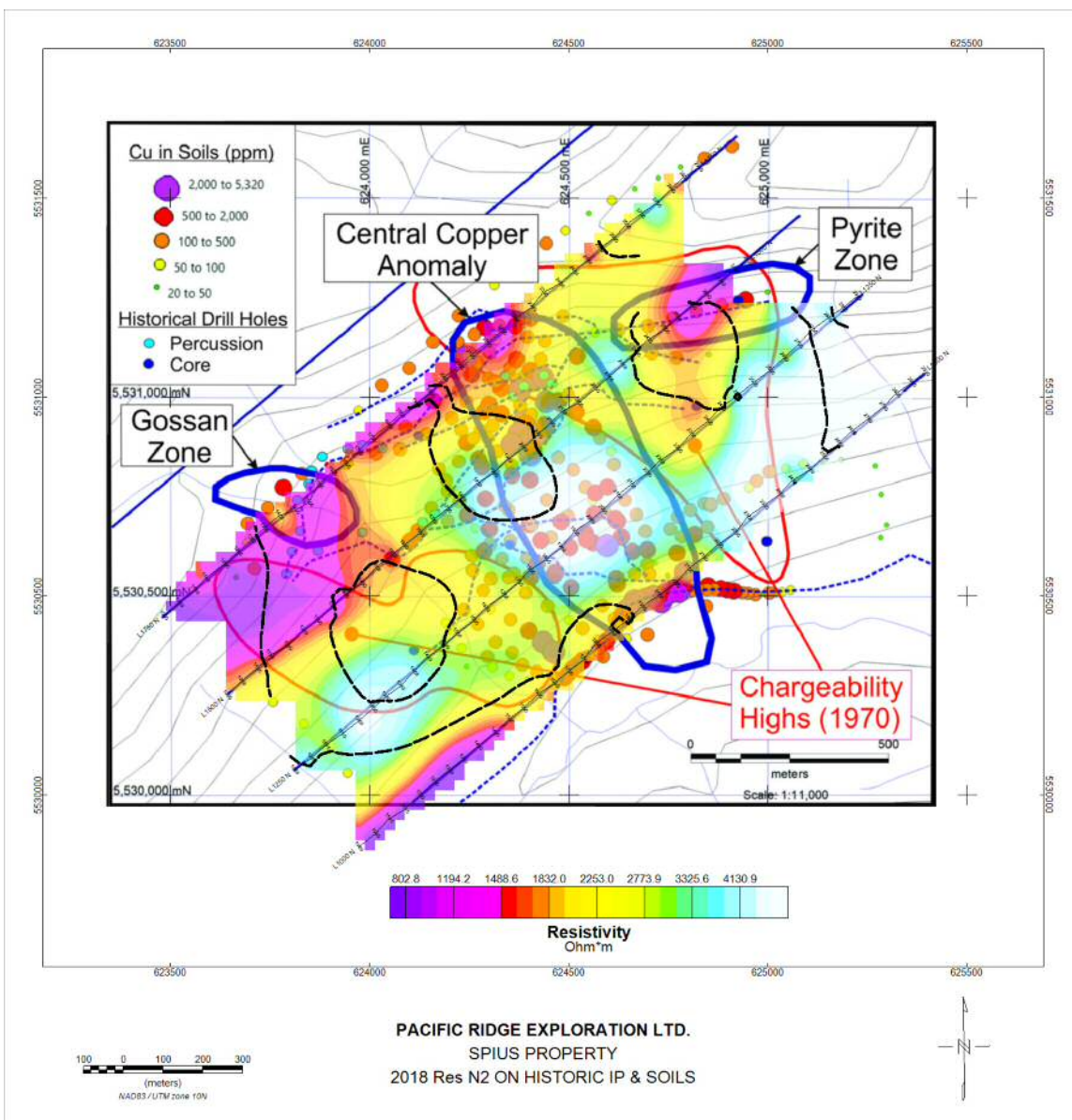
L 1750N. Here background chargeabilities are seen on the extremities and in the central portion. Elevated chargeabilities are observed between 1400 and 1800E (Gossan Zone), and between 2150 and 2450E.

No moderately strong chargeabilities are discerned at depth over the Cu geochemical expression between the flanking highs.

DISCUSSION OF RESULTS cont'd.



DISCUSSION OF RESULTS cont'd.



DISCUSSION OF RESULTS cont'd.

2D inversion was carried out on the data from the 4 traverses. Basically it showed the same as the pseudo sections but the structure is 3D so not particularly meaningful.

SUMMARY, CONCLUSIONS & RECOMMENDATIONS

Between October 17th and 26th, 2016 Peter E. Walcott and Associates Limited undertook 4 IP traverses over the part of the Spius property for Pacific Ridge Exploration Ltd.

The property is located in the Nicola MD of British Columbia some 40 kilometres southwest of Merritt.

The traverses were designed to see if any chargeability response(s) were associated with a large copper soil anomaly positioned between two areas of strong chargeability response obtained on a 1970 IP survey.

The survey confirmed the definition of the two afore mentioned zones and showed no response at depth between those two.

A contour plot of the second separation resistivity showed a central resistivity high plug between the chargeability highs.

The writers believe that the results are an expression of a pyritic halo – chargeability high – surrounding an intrusive plug – resistivity high.

The data suggests the best place for Cu mineralization would be on the western flank of the eastern anomaly on L15N circa 2150 and 2200E.

In fill lines could be undertaken and 3D inversion performed but the writers do not think that it will add much to the above picture.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LIMITED

**Marek Welz
Geophysicist**

**Coquitlam, B.C.
December 2018**

**Peter E. Walcott, P.Eng
Geophysicist**

APPENDIX

COST OF SURVEY

Peter E. Walcott & Associates Limited undertook the survey on a daily basis providing a crew of two geophysicists, an operator and three assistants, a 10 kw pulse IP system, GPSs and ancillary equipment at a daily rate of \$4,050.00.

Two ATVs, extra truck and trailer were needed and provided at a daily rate of \$375.00.

Accommodation and fuel costs were \$6,534.97 while that of mobilization was \$6,000.00.

Reporting costs of \$1,000.00 were incurred so that the total cost of services provided was \$54,409.97.

PERSONNEL EMPLOYED ON SURVEY.

Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Peter E. Walcott & Associates Limited 111-17 Fawcett Rd., Coquitlam, B.C. V3K 6V2	Dec.8 th -9 th .18
M. Welz	“	“	Oct 17 th – 26 th , 18 Dec 6 th - 9 th , 18
P. Young	“	“	Oct 17 th – 26 th , 18
N. Loubser	Geophysical Assistant	“	“
B. Lajeunesse	“	“	“
B. Hall	“	“	“
M. Bruce	“	“	“

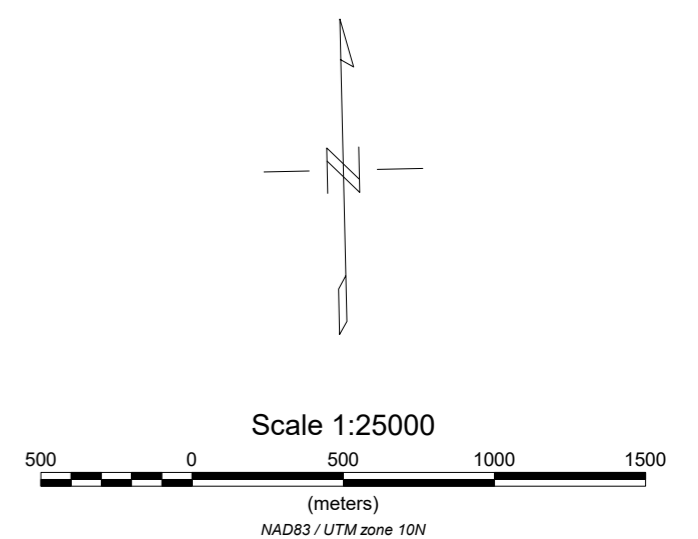
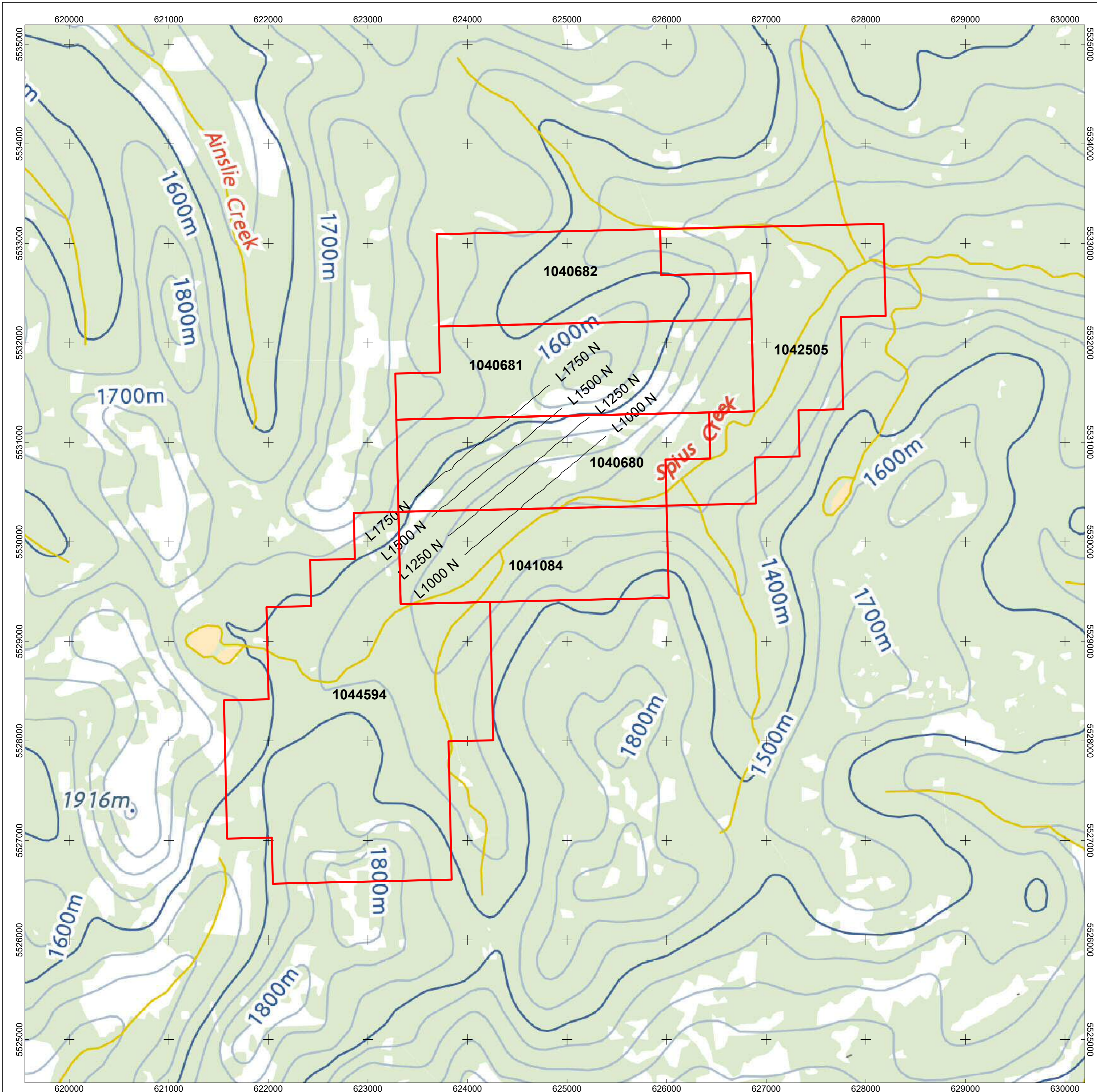
CERTIFICATION.

I, Peter E. Walcott of 605 Rutland Court, Coquitlam, British Columbia, hereby certify that:

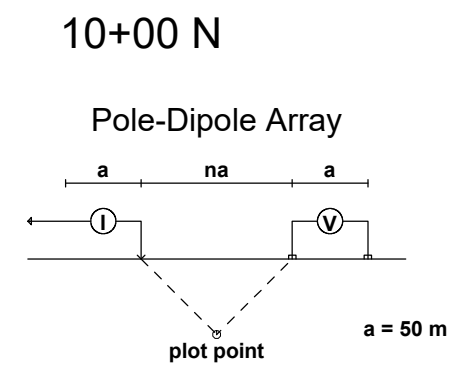
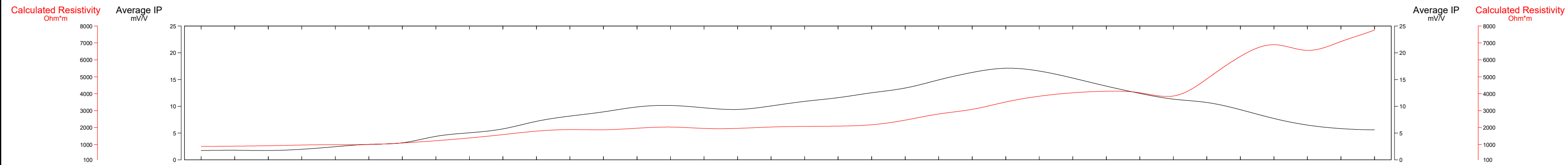
1. I am a graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practicing my profession for the last fifty six years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
4. I hold no interest, direct or indirect in Pacific Ridge Exploration Ltd., nor do I expect to receive any.

Peter E. Walcott, P.Eng.

**Coquitlam, B.C.
December 2018**



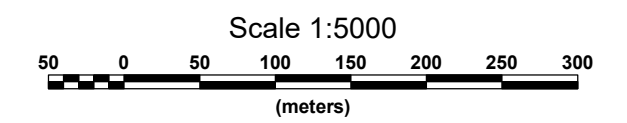
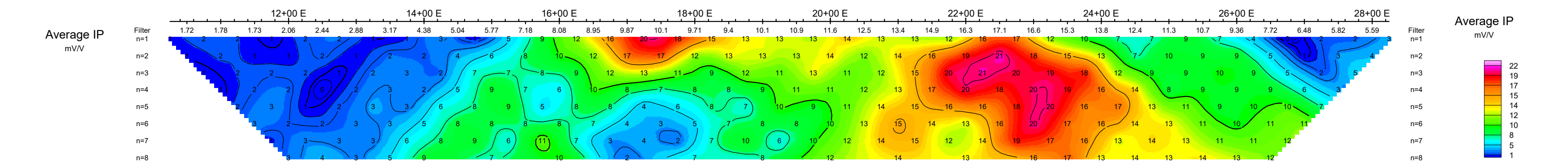
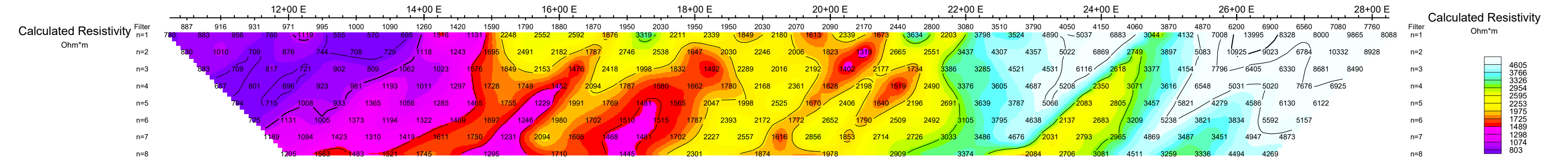
PACIFIC RIDGE EXPLORATION LTD.
INDUCED POLARIZATION SURVEYING SPIUS PROJECT CLAIM LOCATION & 2018 IP LINES
DECEMBER 2018
PETER E. WALCOTT & ASSOCIATES LTD.



Instruments: Walcer 10.0 kW Tx
GDD 8 Rx

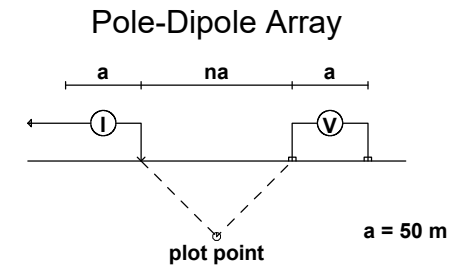
Frequency: 0.125 Hz.
Operators: M.W., P.Y., N.L.

Logarithmic Contours: 1, 1.5, 2, 3, 5, 7.5, 10, ...



PACIFIC RIDGE EXPLORATION LTD.
INDUCED POLARIZATION SURVEY
SPIUS PROJECT
Date: DECEMBER 2018
Interpretation:
PETER E. WALCOTT & ASSOCIATES LIMITED

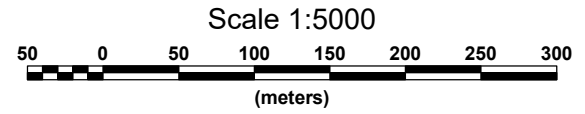
12+50 N



Instruments: Walcer 10.0 kW Tx
GDD 8 Rx

Frequency: 0.125 Hz.
Operators: M.W., P.Y., N.L.

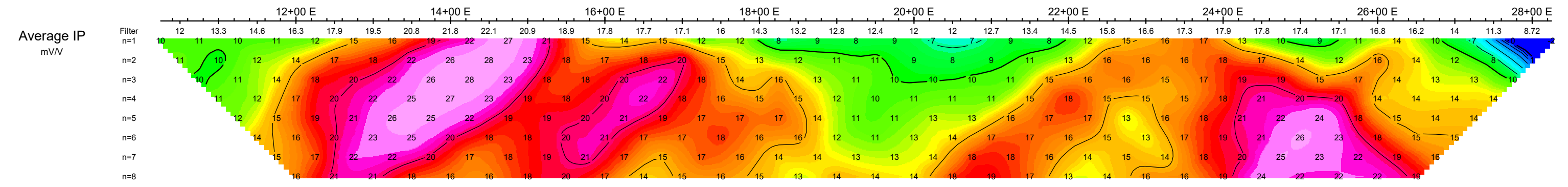
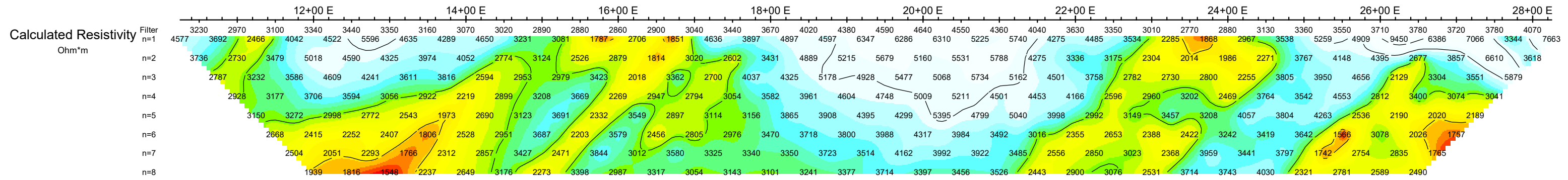
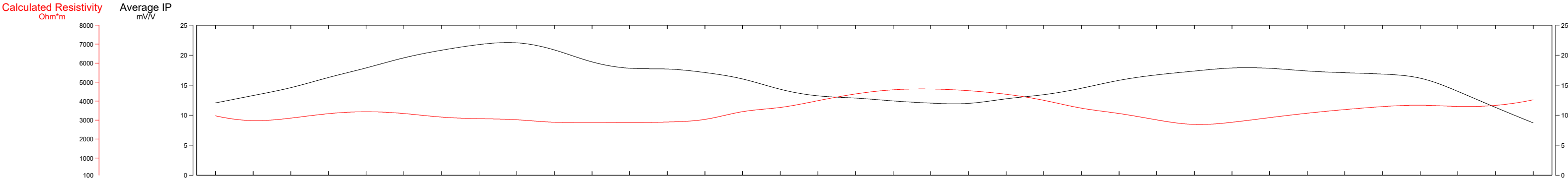
Logarithmic Contours: 1, 1.5, 2, 3, 5, 7.5, 10, ...

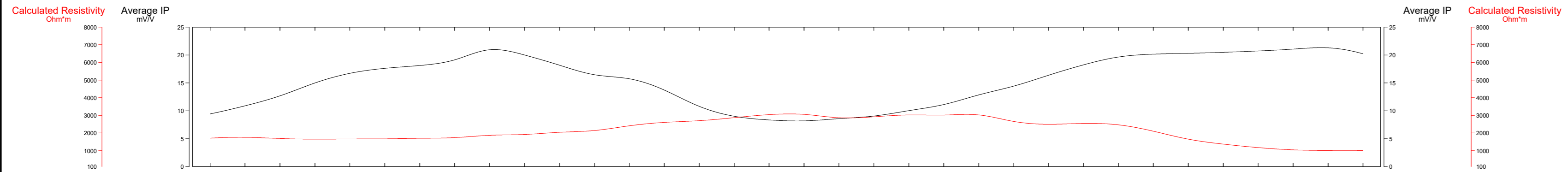


PACIFIC RIDGE EXPLORATION LTD.
INDUCED POLARIZATION SURVEY
SPIUS PROJECT

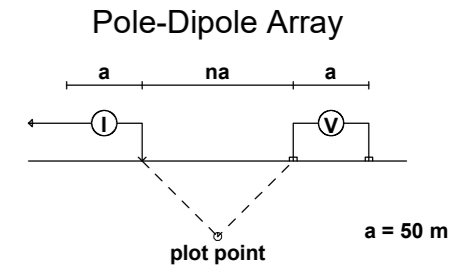
Date: DECEMBER 2018
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED





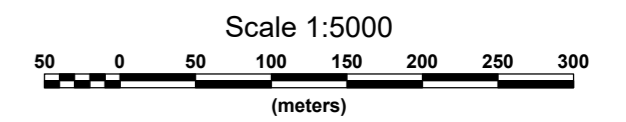
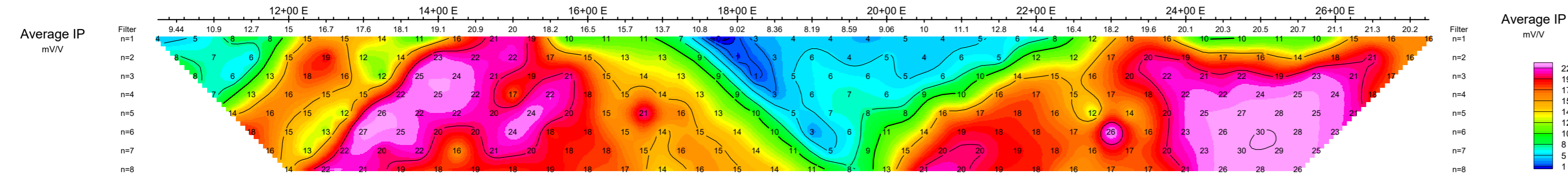
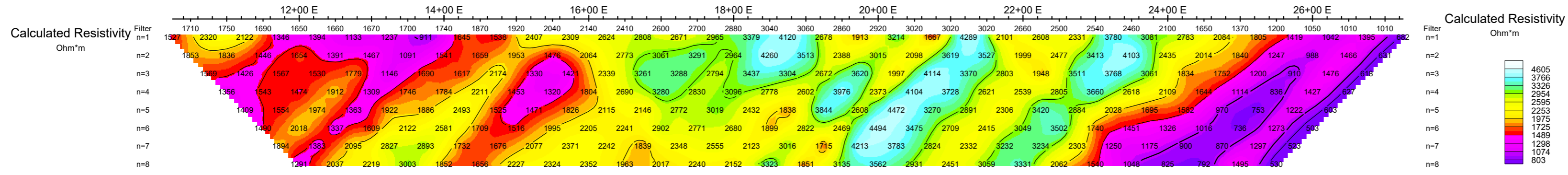
15+00 N



Instruments: Walcer 10.0 kW Tx
GDD 8 Rx

Frequency: 0.125 Hz.
Operators: M.W., P.Y., N.L.

Logarithmic Contours
1.5, 2, 3, 5, 7.5, 10, ...

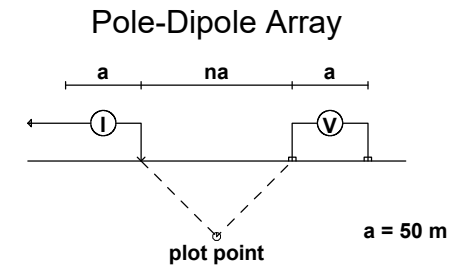


PACIFIC RIDGE EXPLORATION LTD.
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SPIUS PROJECT

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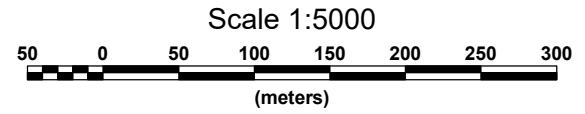
17+50 N



Instruments: Walcer 10.0 kW Tx
GDD 8 Rx

Frequency: 0.125 Hz.
Operators: M.W., P.Y., N.L.

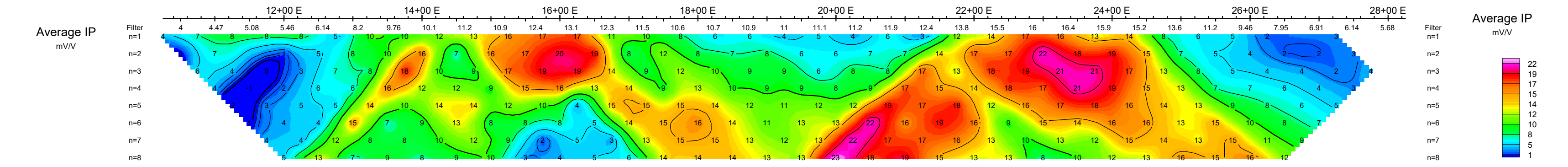
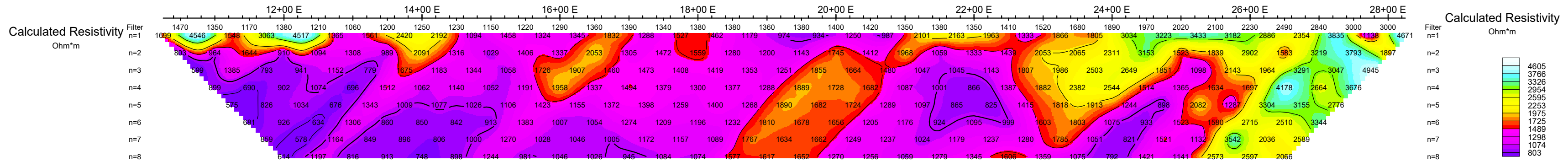
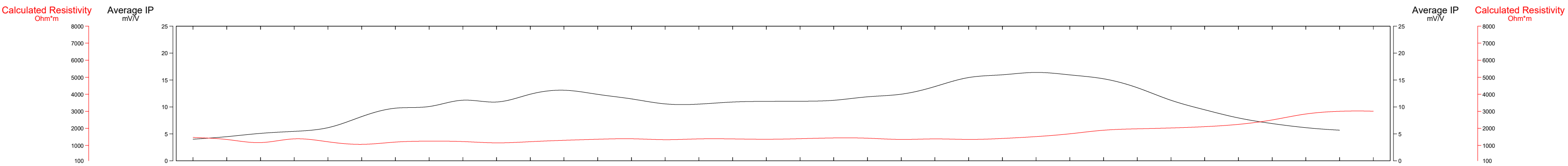
Logarithmic Contours: 1, 1.5, 2, 3, 5, 7.5, 10, ...



PACIFIC RIDGE EXPLORATION LTD.
INDUCED POLARIZATION SURVEY
SPIUS PROJECT

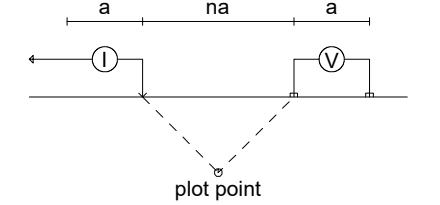
Date: DECEMBER 2018
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

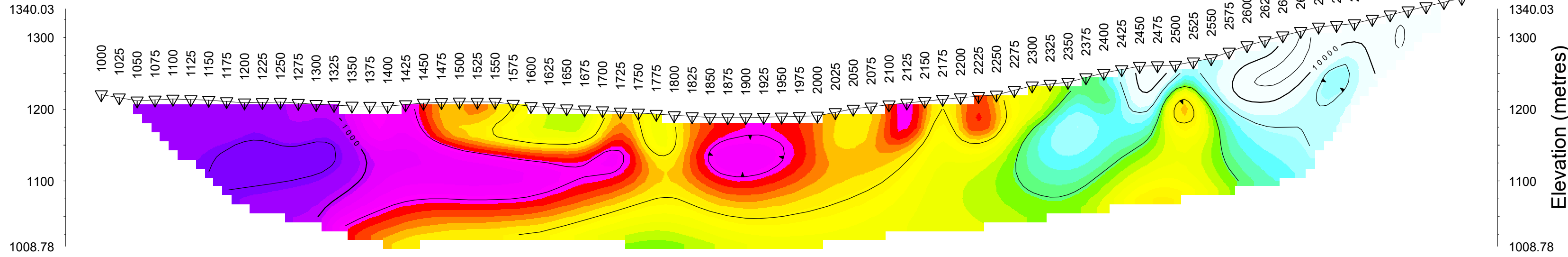


Line_1000N

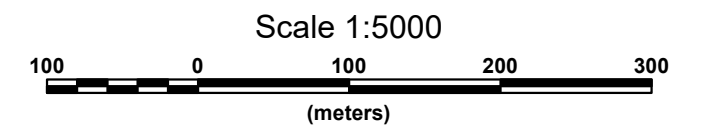
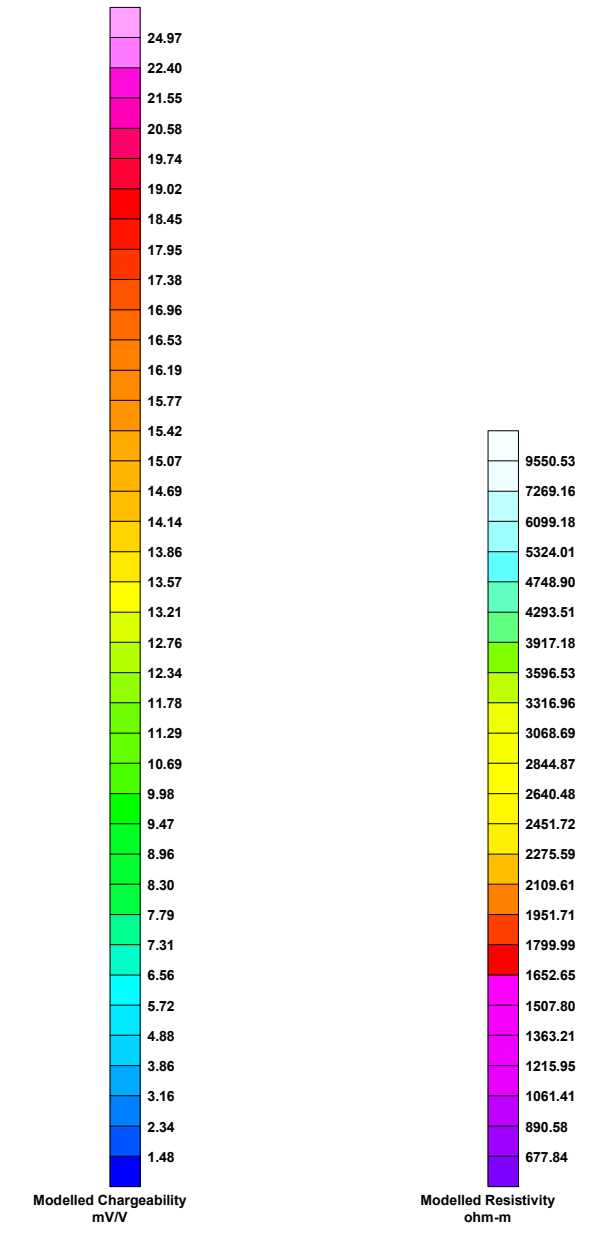
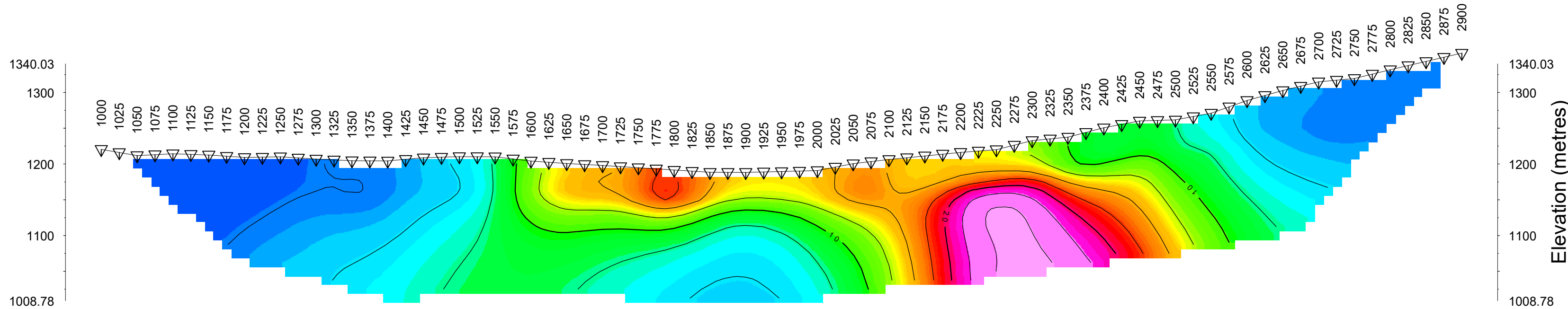
Pole-Dipole Array



Modelled Resistivity (Ohm-m)

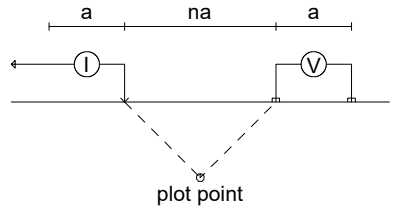


Modelled Chargeability (mV/V)

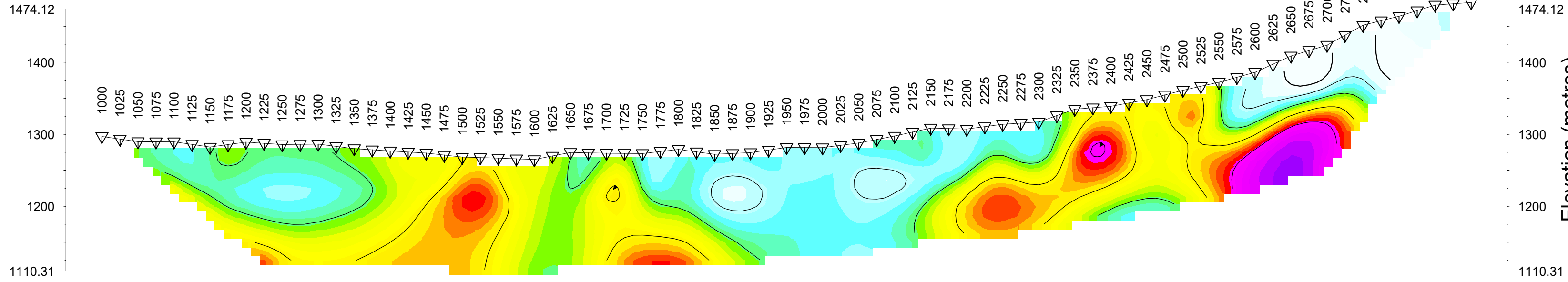


PACIFIC RIDGE EXPLORATION LTD.
INDUCED POLARIZATION SURVEY
SPIUS PROJECT
Date: DECEMBER 2018
RES2DINV
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

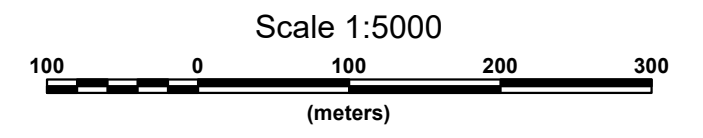
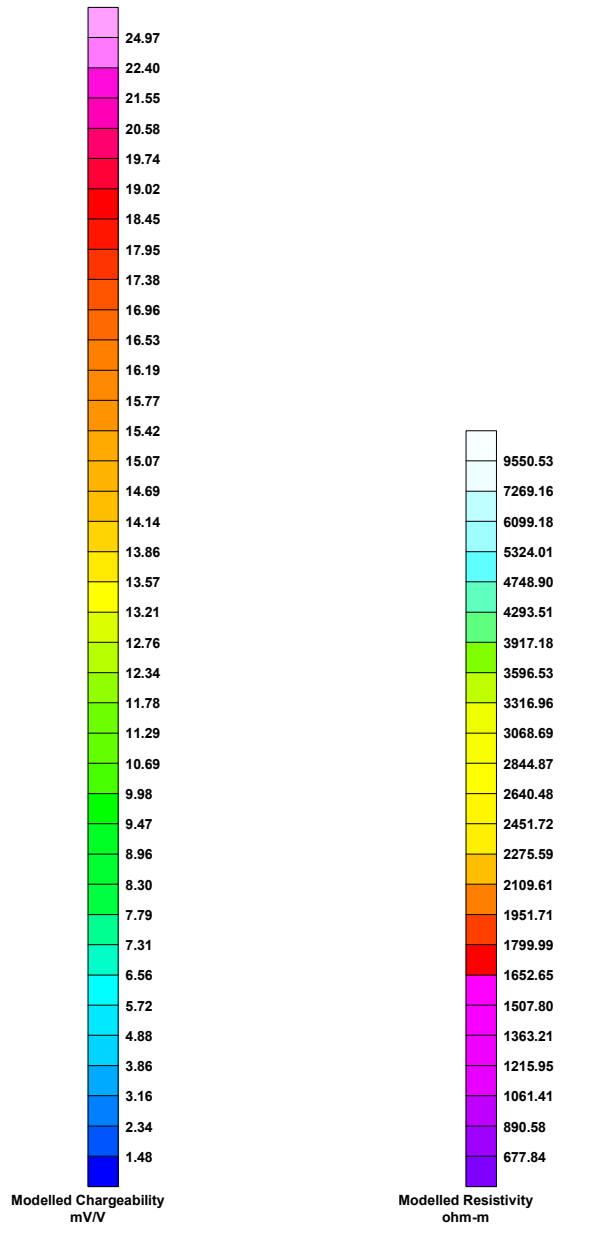
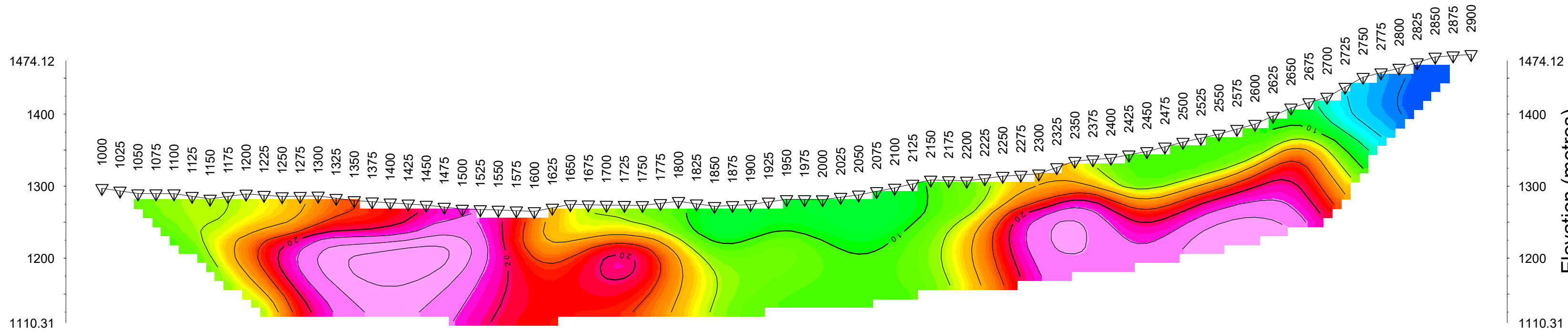
Pole-Dipole Array



Modelled Resistivity (Ohm-m)

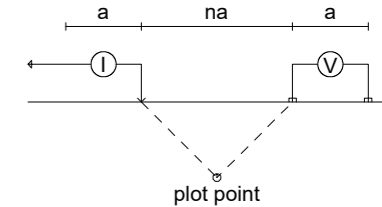


Modelled Chargeability (mV/V)

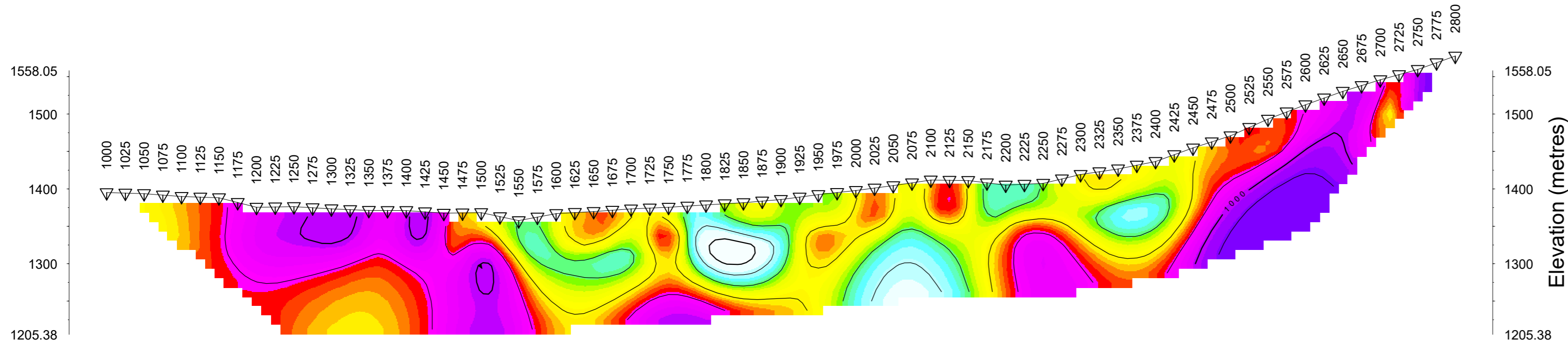


PACIFIC RIDGE EXPLORATION LTD.
INDUCED POLARIZATION SURVEY
SPIUS PROJECT
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RES2DINV
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

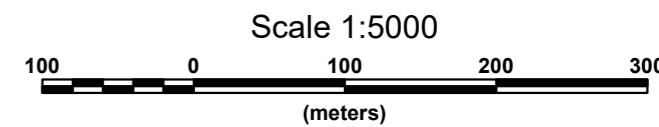
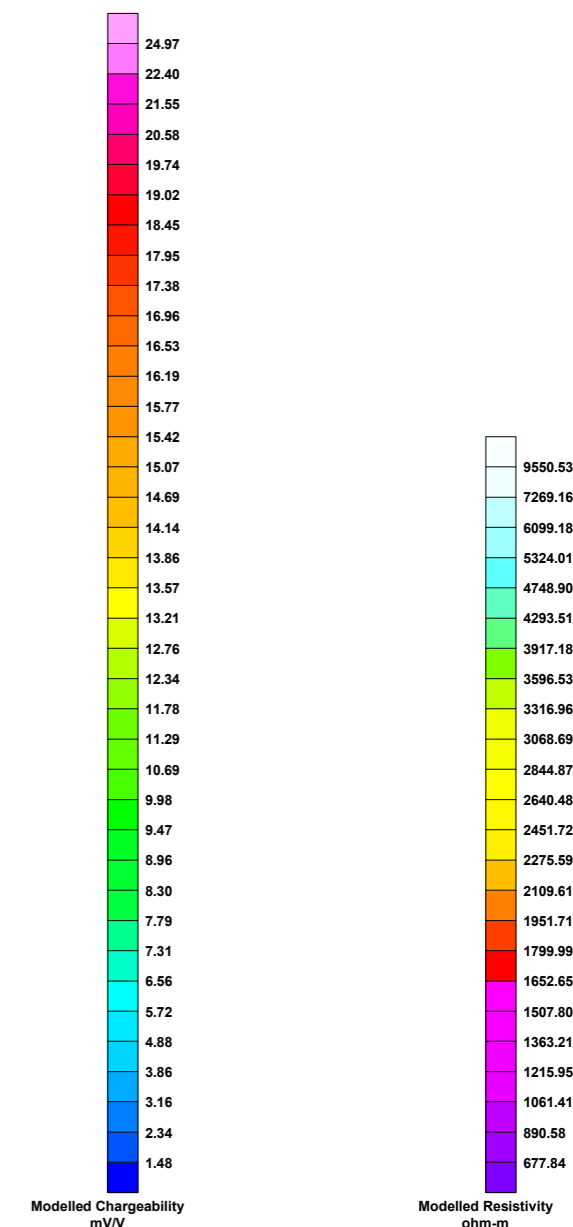
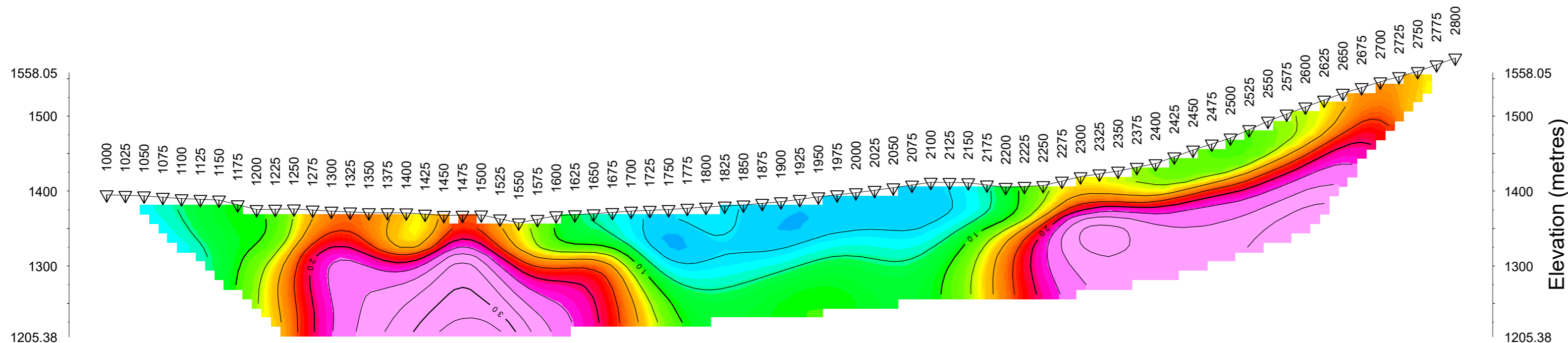
Pole-Dipole Array



Modelled Resistivity (Ohm-m)

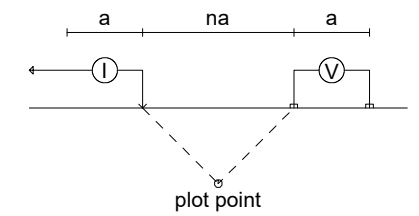


Modelled Chargeability (mV/V)

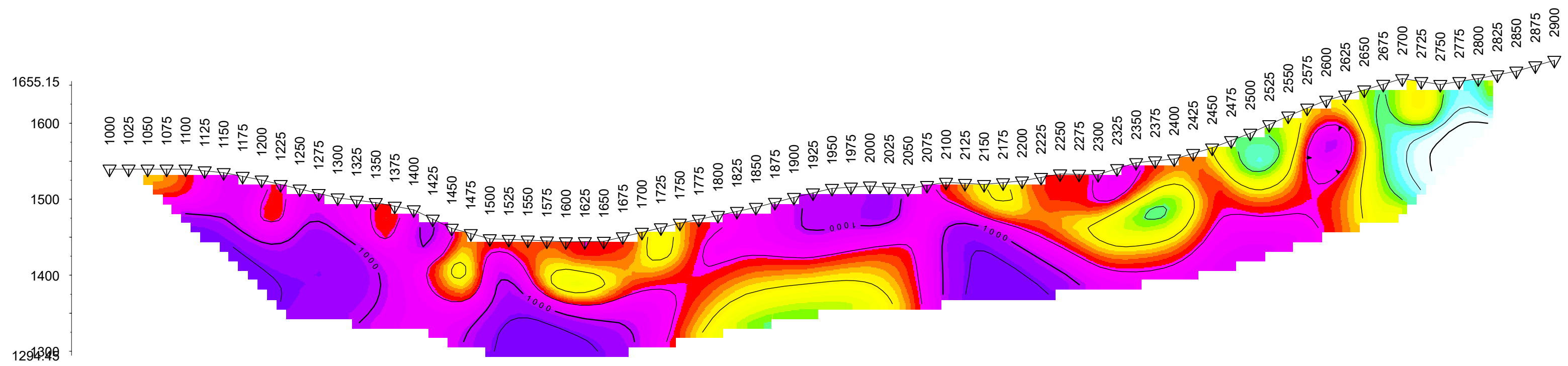


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INDUCED POLARIZATION SURVEY
SPIUS PROJECT
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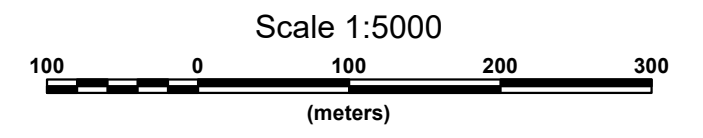
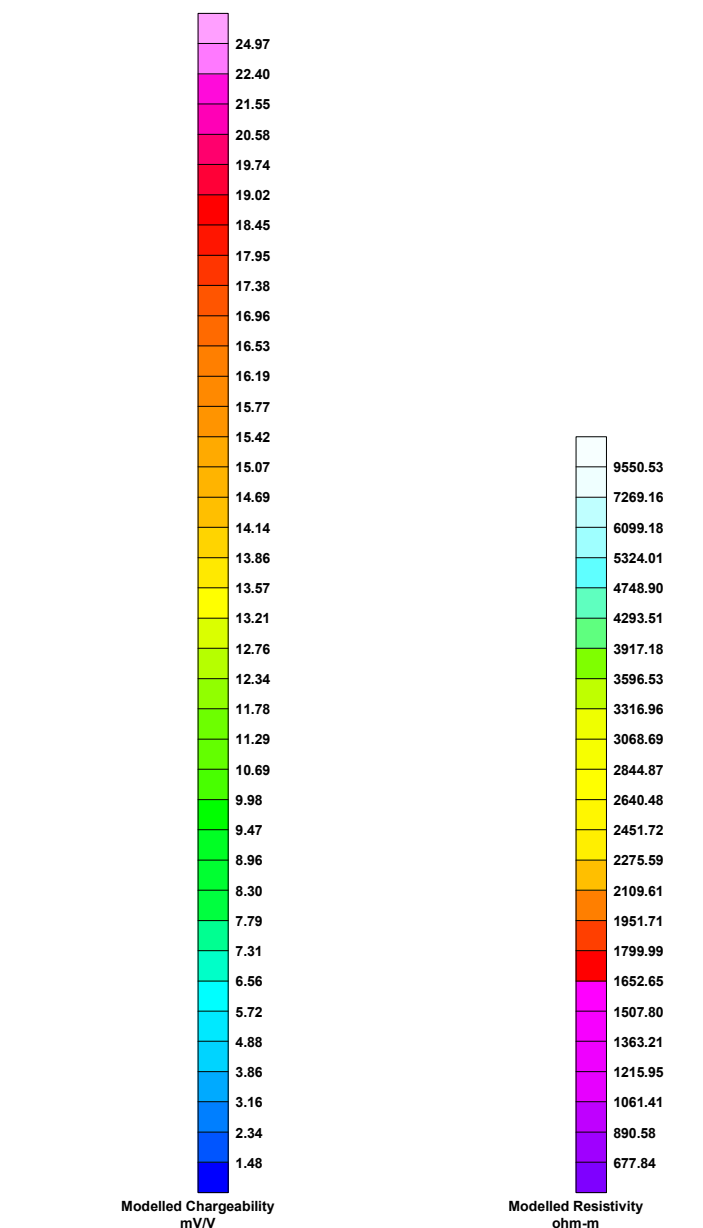
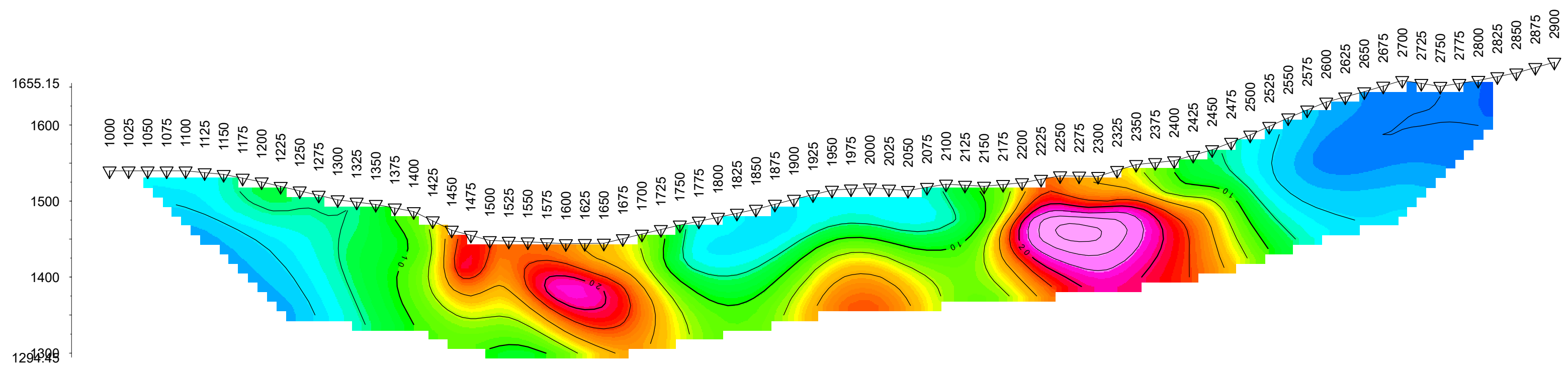
Pole-Dipole Array



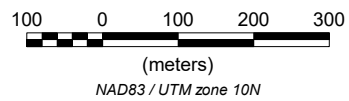
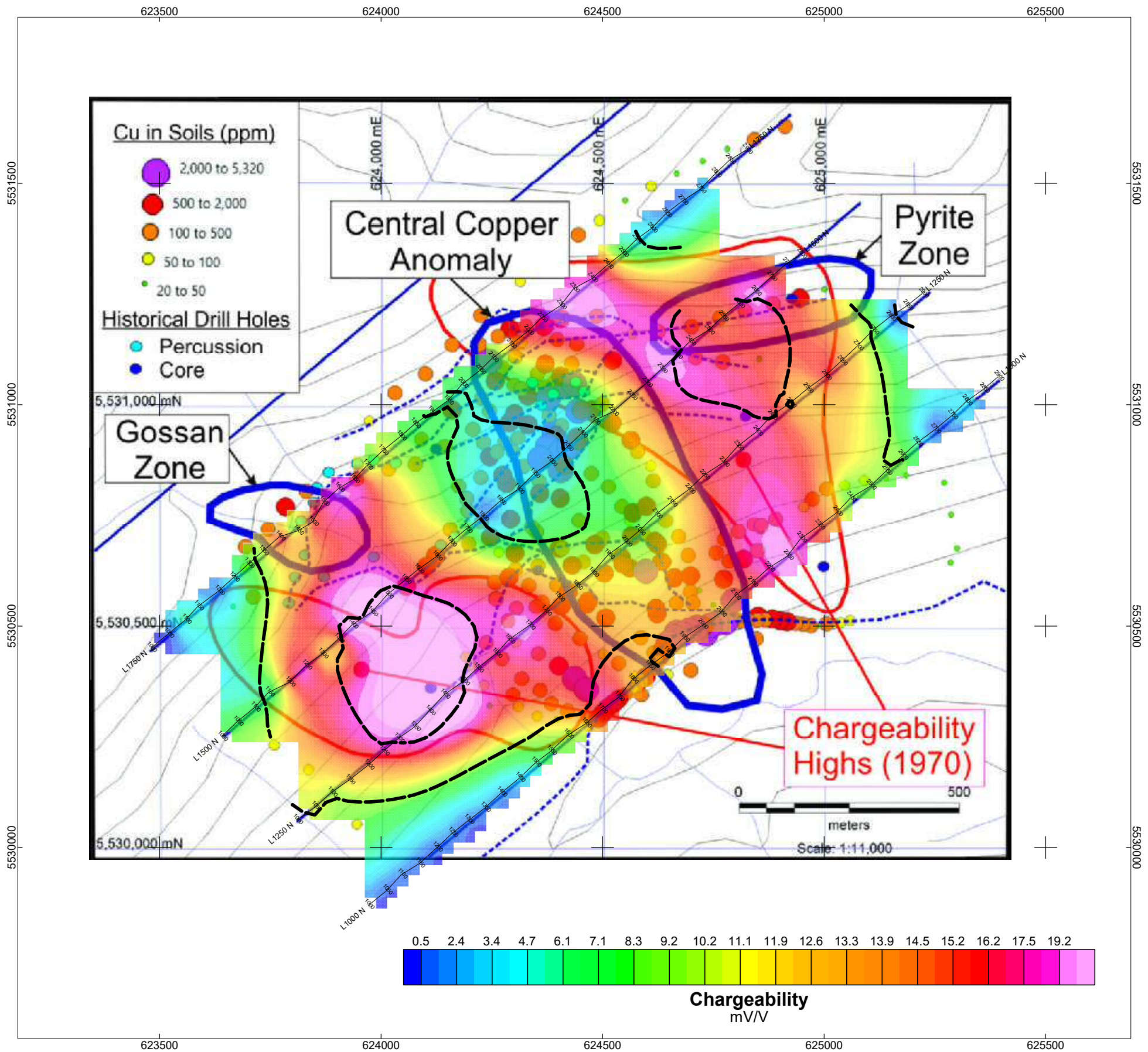
Modelled Resistivity (Ohm-m)



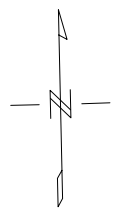
Modelled Chargeability (mV/V)

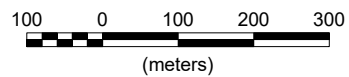
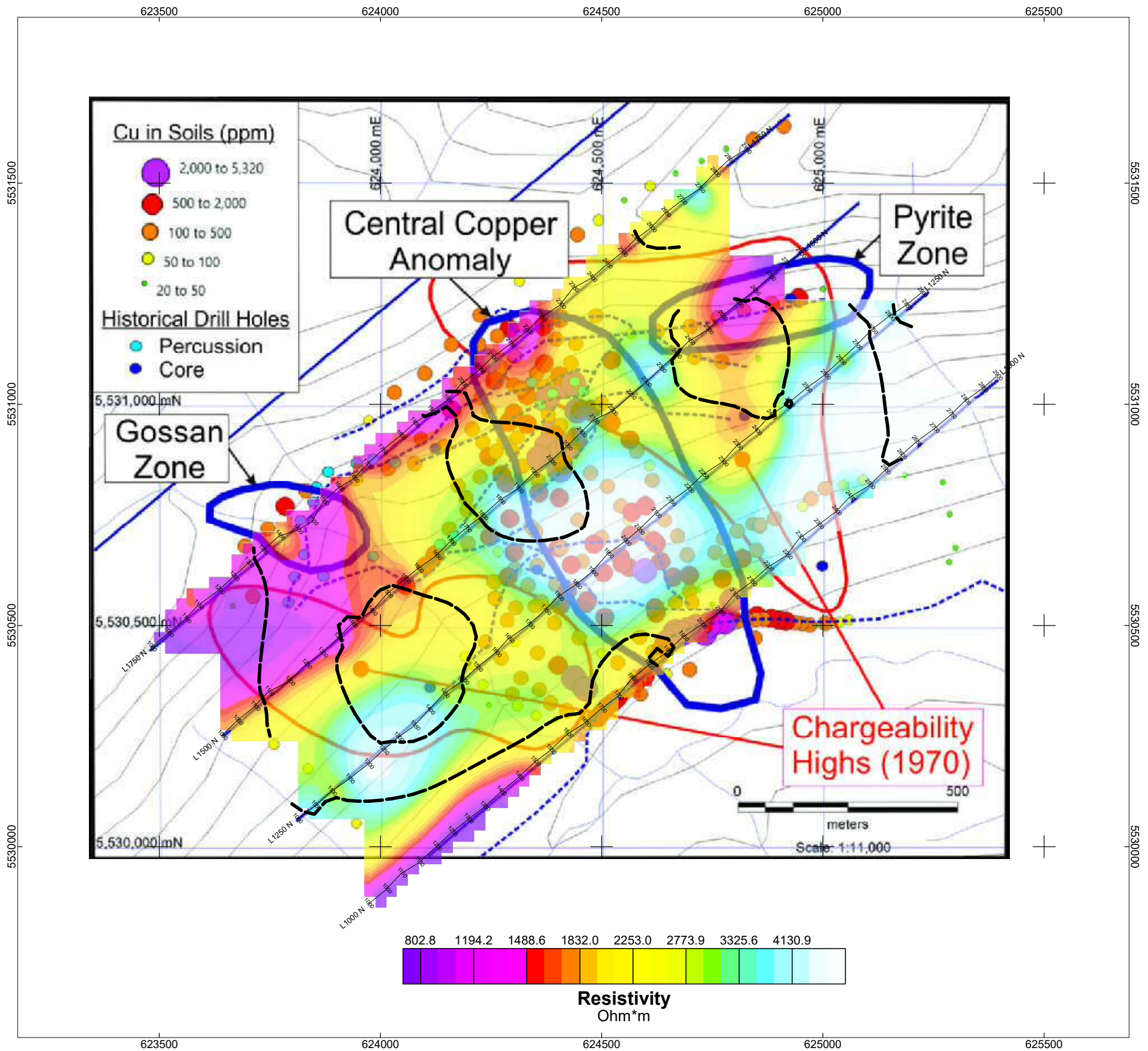


PACIFIC RIDGE EXPLORATION LTD.
 INDUCED POLARIZATION SURVEY
 SPIUS PROJECT
 Date: DECEMBER 2018
 RES2DINV
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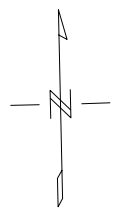
PACIFIC RIDGE EXPLORATION LTD.
SPIUS PROPERTY
 2018 IP N2 ON HISTORIC IP & SOILS





NAD83 / UTM zone 10N

PACIFIC RIDGE EXPLORATION LTD.
SPIUS PROPERTY
 2018 Res N2 ON HISTORIC IP & SOILS



Appendix IV
Receipts and Invoices.



Ridgeline Exploration Services Inc.

335-1632 Dickson Ave
 Kelowna, BC
 V1Y 7T2
 250-768-1168

Invoice

Date	Invoice #
10/30/2018	RID-18-037

Invoice To
Pacific Ridge Exploration Ltd 1100-1111 Melville Street Vancouver, BC

Net 30

Description	Qty	Rate	Amount
Spius Property:			
Field Work:			
Exploration Manager, Gabriel Ord - October 14-24, 2018	11	650.00	7,150.00
Soil Sampler/Prospector, Matt Blanchard - October 14-24, 2018	11	550.00	6,050.00
Soil Sampler/Prospector, Curtis Woods - October 14-24, 2018	11	550.00	6,050.00
Office Studies:			
Plan field program, prepare equipment, procure supplies - Oliver Friesen	4	85.00	340.00
GIS Maps - Oliver Friesen	8	85.00	680.00
Analytical:			
Soils/Silts, Dry, screen to -80 mesh, aqua regia digest, ICP-MS finish (0.5g) - MS Analytical	170	21.40	3,638.00
Rocks - Dry, crush, pulverize, aqua regia digest, ICP-AES+MS finish (25g)	8	24.70	197.60
Freight charges to Langley, BC	1	80.00	80.00
Travel:			
Fuel and mileage - Logging	1,240	1.65	2,046.00
Fuel and mileage - Highway	320	0.65	208.00
4X4 Truck rental X 1	11	150.00	1,650.00
Meals & Accommodations:			
Meals (field & travel)	33	60.00	1,980.00
Accommodation - Knights Inn, Merrit, BC (2106.00 + 10%)	1	2,316.60	2,316.60

	Subtotal
	Total GST
	Total



Ridgeline Exploration Services Inc.

335-1632 Dickson Ave
 Kelowna, BC
 V1Y 7T2
 250-768-1168

Invoice

Date	Invoice #
10/30/2018	RID-18-037

Invoice To
Pacific Ridge Exploration Ltd 1100-1111 Melville Street Vancouver, BC

Net 30

Description	Qty	Rate	Amount
Rentals: Equipment rental and consumables (iCom radios, spot trackers, Delorme inReach, tablets, Garmins, iForms, sampling tools, sample bags, flagging, batteries, chain saw, etc.)	11	90.00	990.00
Trailer rental	11	40.00	440.00
ATV rental	11	100.00	1,100.00

Subtotal	\$34,916.20
Total GST	\$1,745.81
Total	\$36,662.01

**PETER E. WALCOTT
& ASSOCIATES LTD**

Geophysical Services

INVOICE

GST #104 159 298

NO. 5581

Date: December 10th, 2018
Net 10 Days

TO: PACIFIC RIDGE EXPLORATION LTD.
1100 – 1111 Melville St.,
Vancouver, B.C.
V6C 3V6

Re: I.P. Survey, Spines property, October 2018

1.	Mobilization – six man crew & equipment plus 2 nd truck with trailer & 2 ATV's, Vancouver – Merritt – return	\$6,000.00
2.	Provision of 2 geophysicists, operator, 3 assistants, 10 kw pulse I.P. system, GPS, 4 x 4 truck, etc. Oct. 17 th – 25 th + 9 days at \$4,050.00	\$36,450.00
3.	Provision of 2 ATV's, truck, trailer, 9 days at \$375.00	\$3,375.00
4.	Provision of 2 crew plus truck, 2 ATV's, pick up wire October 26 th	\$1,050.00
5.	Expenses: Accom. 2286.90, 1306.80, 974.31, 201.20, 914.92, 10815 Fuel: 587.49, 155.20	\$6,534.97
6.	Report writing	<u>\$1,000.00</u>
		\$54,409.97
	GST	<u>\$2,673.17</u>
		<u>\$57,083.14</u>

Please note interest will be charged at the rate of 1 ½% per month on all overdue accounts.

G. Carlson - Spius Property Visit Expenses

Date	Description	Subtotal	GST	Total
20-Oct-2018	Groceries	\$56.94	\$1.15	\$58.09
22-Oct-2018	Motel	\$198.00	\$9.00	\$207.00
22-Oct-2018	Vehicle: 556 km @ \$0.65	\$361.40	\$0.00	\$361.40
	Totals	\$616.34	\$10.15	\$626.49